



HORTICULTURAL SERVICES
SMITHSONIAN INSTITUTION
WASHINGTON, D. C. 20560



Plant Inventory No. 174

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D.C., April 1, 1969



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n. 174-176
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PLANT MATERIAL INTRODUCED JANUARY 1 TO DECEMBER 31, 1966 (NOS. 310336 TO 317903)

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This inventory, No. 174, lists the plant material (Nos. 310336 to 317903) received by the New Crops Research Branch, Crops Research Division, Agricultural Research Service, during the period from January 1 to December 31, 1966. The inventory is a historical record of plant material introduced for Department and other specialists, and is not to be considered as a list of plant material for distribution.

The species names used are those under which the plant material was received. These have been corrected only for spelling, authorities, and obvious synonymy. Questions related to the names published in the inventory and obvious errors should be directed to the author. If misidentification is apparent, please submit an herbarium specimen with flowers and fruit for reidentification.

HOWARD L. HYLAND,
Botanist.

*Plant Industry Station
Beltsville, Md.*

INVENTORY

- 310336.** *MAGNOLIA GUATEMALENSIS* Donn. Sm. Magnoliaceae.
From Guatemala. Budsticks presented by Chris Hempstead, Guatemala City.
Received Jan. 4, 1966.
Collected at Chipoc, Coban. Elevation 4,500 feet; average rainfall 140 inches per year.
- 310337 to 310339.** *MEDICAGO SATIVA* L. Leguminosae. Alfalfa.
From Spain. Seeds presented by Antonio Bermejo, Agricultural Attache of the Embassy of Spain, Washington, D.C. Received Jan. 5, 1966.
310337. 'Aragon'.
310338. 'Mediterranea'.
310339. 'Tierra de Campos'.
- 310340 to 310358.**
From India. Plants presented by the Lloyd Botanic Garden, Darjeeling, West Bengal. Received Dec. 13, 1965. Numbered Jan. 5, 1966.
310340. *DAPHNE* sp. Thymelaeaceae.
310341. *EUONYMUS FRIGIDUS* Wall. in Roxb. Celastraceae.
310342. *GAULTHERIA HOOKERI* C. B. Clarke Ericaceae.
310343. *GAULTHERIA NUMMULARIOIDES* D. Don
310344. *GAULTHERIA PYROLOIDES* Hook. f. & Thoms.
310345. *GAULTHERIA TRICHOPHYLLA* Royle
310346. *HYPERICUM HOOKERIANUM* Wight & Arn. Guttiferae.
Hookers St.-Johns-wort.
310347. *LONICERA* sp. Caprifoliaceae.
310348. *MECONOPSIS WALLICHII* Hook. Papaveraceae. Satinpoppy.
310349. *POTENTILLA FULGENS* Wall. ex Hook. Rosaceae. Cinquefoil.
310350. *PRIMULA PETIOLARIS* Wall. Primulaceae.
310351. *RHODODENDRON ARBOREUM* J. E. Smith. Ericaceae.
Tree rhododendron.
310352. *RHODODENDRON BARBATUM* Wall. ex Don
310353. *RHODODENDRON CINNABARINUM* Hook. f.
310354. *RHODODENDRON FALCONERI* Hook. f.
310355. *RHODODEDRON GRANDE* Wight
310356. *RHODODENDRON SETOSUM* Don
310357. *VACCINUM RETUSUM* (Griff.) Hook. f. Ericaceae.
310358. *VACCINUM SERRATUM* (Don) Wight
- 310359 to 310434.**
From the Union of Soviet Socialist Republics. Seeds presented by the Botanical Garden of the Scientific Academy, Taschkent, Karamurtskaia. Code numbers recorded in Garden's 1965 Index Seminum. Received Jan. 6, 1966.

310359 to 310434—Continued

310359. *ABIES SIBIRICA* Ledeb. Pinaceae.
No 1.
310360. *ACER MONO* Maxim. Aceraceae. **Mono maple.**
No. 1121.
310361. *ACER SEMENOVII* Regel & Herd.
No. 672.
310362. *ACER TURKESTANICUM* Pax
No. 673.
310363. *AELLENIA GLAUCA* (M.Bieb.) Aellen. Chenopodiaceae.
No. 345.
310364. *AELUROPUS REPENS* (Desf.) Parl. Gramineae.
No. 19.
310365. *AGROPYRON CRISTATUM* (L.) Gaertn. Gramineae.
No. 1979. **Crested wheatgrass.**
310366. *AGROPYRON DESERTORUM* (Fisch. ex Link) Schult.
No. 20. **Standard wheatgrass.**
310367. *AGROPYRON ELONGATUM* (Host) Beauv.
No. 1980.
310368. *AGROPYRON JUNCEUM* (L.) Beauv.
No. 1981.
- 310369 and 310370. *AGROPYRON PECTINIFORME* Roem. & Schult.
310369. No. 21.
310370. No. 1982.
310371. *AGROPYRON PUNGENS* (Pers.) Roem. & Schult.
No. 1983.
310372. *AILANTHUS ALTISSIMA* (Mill.) Swingle Simaroubaceae.
No. 1134. **Tree-of-heaven.**
310373. *AILANTHUS GIRALDII* Dode
No. 1135.
310374. *AILANTHUS VILMORINIANA* Dode
No. 1136.
310375. *ALOPECURUS MYOSUROIDES* Huds. Gramineae.
No. 1999.
310376. *ALOPECURUS PRATENSIS* L. **Meadow foxtail.**
No. 23.
310377. *AMELANCHIER SPICATA* (Lam.) K. Koch. Rosaceae.
No. 1148.
310378. *ARISTIDA ADSCENSIONIS* L. Gramineae.
No. 29.
310379. *ARISTIDA COERULESCENS* Desf.
No. 2025.

310359 to 310434—Continued

310380. *ARISTIDA KARELINII* (Trin. & Rupr.) Roshev.
No. 30.
310381. *ARISTIDA OLIGANTHA* Michx.
No. 2026.
310382. *ARISTIDA PLUMOSA* L. var. *INTERMEDIA* Litw.
No. 2027.
310383. *ATRIPLEX HORTENSIS* L. Chenopodiaceae. Garden orach.
No. 2046.
310384. *BETULA HUMILIS* Schrank Betulaceae.
No. 1220.
310385. *BETULA KIRGHISORUM* Sawicz
No. 307.
310386. *BETULA PROCURVA* Litw.
No. 308.
310387. *BETULA TURKESTANICA* Litw.
No. 309.
310388. *CARAGANA BOISII* Schneid. Leguminosae.
No. 1247.
310389. *CARAGANA BREVISPIA* Royle ex Benth.
No. 1248.
310390. *CARAGANA* sp.
No. 1246.
310391. *CORONILLA SCORPIOIDES* (L.) Koch Leguminosae.
No. 2136.
310392. *CREPIS KOTSCHYANA* Boiss. Compositae.
No. 1000.
310393. *DACTYLIS VORONOVII* Ovcz. Gramineae.
No. 54.
- 310394 and 310395. *ELAEAGNUS ANGUSTIFOLIA* L. Elaeagnaceae.
Russian-olive.
310394. No. 695.
310395. No. 696.
310396. *ELAEAGNUS UMBELLATA* Thunb. Autumn elaeagnus.
No. 1487.
310397. *ENNEAPOGON PERSICUM* Boiss. Gramineae.
No. 64.
310398. *EPHEDRA CILIATA* C. A. Mey. Gnetaceae.
No. 6.
310399. *EPHEDRA INTERMEDIA* Schrenk & Mey.
No. 7.
310400. *EPHEDRA STROBILACEA* Bunge.
No. 8.

310359 to 310434—Continued

310401. *EPILOBIUM MINUTIFLORUM* Haussk.- Onagraceae.
No. 698.
310402. *EPILOBIUM PARVIFLORUM* Schreb.
No. 699.
310403. *ERAGROSTIS CURVULA* (Schrad.) Nees Gramineae. **Weeping lovegrass.**
No. 2178.
310404. *ERAGROSTIS STAROSSELSKYI* Grossh.
No. 66.
310405. *ERAGROSTIS* cf. *SUAVEOLENS* Becker ex Claus.
No. 2177.
310406. *EUROTIA CERATOIDES* (L.) Meyer Chenopodiaceae.
No. 350.
310407. *EUROTIA EVERSMANNIANA* Stzhegl.
No. 351.
310408. *KOCHIA PROSTRATA* (L.) Schrad. Chenopodiaceae.
No. 2273.
310409. *LESPEDEZA CUNEATA* (Dumont) G. Don Leguminosae.
No. 1564.
310410. *LOLIUM PERSICUM* Boiss. & Hohen. Gramineae.
No. 96.
310411. *LOLIUM REMOTUM* Schrenk.
No. 97.
310412. *LOTUS FRONDOSUS* Freyn. Leguminosae.
No. 607.
310413. *LOTUS ORNITHOPODIOIDES* L.
No. 2305.
310414. *PHYSOCARPUS AMURENSIS* Maxim. Rosaceae. **Ninebark.**
No. 1680.
310415. *PHYSOCARPUS OPULIFOLIUS* (L.) Maxim.
No. 1681.
310416. *PHYSOCARPUS RIBESIFOLIUS* Kom.
No. 1682.
310417. *PHYSOCARPUS STELLATUS* (Rydb.) Rehd.
No. 1683.
310418. *RHAMNUS* sp. Rhamnaceae.
No. 1728.
310419. *RHAMNUS UTILIS* Dene. **Buckthorn.**
No. 1729.
310420. *ROEGNERIA DROBOVII* (Nevski) Nevski Gramineae.
No. 125.
310421. *ROEGNERIA INTERRUPTA* (Nevski) Nevski
No. 126.

310359 to 310434—Continued

310422. *ROEGNERIA SCHUGNANICA* (Nevski) Nevski
No. 127.
310423. *SANGUISORBA MINOR* Scop. Rosaceae. Small burnet.
No. 2458.
310424. *SPIRAEA* × *BUMALDI* Burv. Rosaceae.
No. 1870.
310425. *SPIRAEA* × *CANTONIENSIS* Lour. Reeves spirea.
No. 1871.
310426. *SPIRAEA* × *PIKOVIENSIS* Besser
No. 1881.
310427. *SPOROBOLUS INDICUS* (L.) R. Br. Gramineae. Dropseed.
No. 2491.
310428. *SPOROBOLUS TENACISSIMUS* Beauv.
No. 2492.
310429. *STIPA KIRGHISORUM* P. Smirn. Gramineae.
No. 137.
310430. *STIPA* sp.
No. 2496.
310431. *TETRAGONOLOBUS SILIQUOSUS* (L.) Roth Leguminosae.
No. 2306.
310432. *ULMUS PUMILA* L. Ulmaceae. Chinese elm.
No. 1909.
310433. *VIBURNUM BUREJAETICUM* Regl. & Herd. Caprifoliaceae.
Manchurian viburnum.
No. 1911.
310434. *VIBURNUM RHYTIDOPHYLLUM* Hemsl. Caprifoliaceae.
Leatherleaf viburnum.
No. 1916.
310435. *CAPSICUM FRUTESCENS* L. Solanaceae. Redpepper.
From Mexico. Seeds presented by E. M. LeBaron, Magdalena, Sonora.
Numbered Jan. 7, 1966.
G15199. Plant to 50 cm. high, branches few, vigorous. Flowers large,
white. Fruit 12.5 by 3.0 cm., oblong, black, glossy, hot. Drought tolerant.
310436. *MAGNOLIA GRANDIFLORA* L. Magnoliaceae.
From Algeria. Seeds presented by the Jardin d'Essais du Hamma, Centre de
Recherches, Agronomiques d'Algerie, Hamma. Received Jan. 7, 1965.
310437. *VERNONIA ANTHELMINTICA* (L.) Willd. Compositae. Ironweed.
From Brazil. Seeds presented by Theodore Hymowitz, Instituto de Pesquisas,
IRI, Campinas, Sao Paulo. Received Jan. 7, 1966.
- 310438 to 310441. *GLYCINE MAX* (L.) Merr. Leguminosae. Soybean.
From the Philippines. Seeds presented by Y. H. Yang, Food and Agriculture
Organization of the United Nations, Bayambang, Luzon. Received Jan.
7, 1966.

310438 to 310441—Continued

310438. 'Kaohsiung No. 5'. Taiwan University, China.
 310439. 'Mission'. New Guinea.
 310440. 'One Hundred Beautiful Girls'. Taiwan, China.
 310441. 'Red Branch'. Taiwan, China.

310442 to 310449. VITIS VINIFERA L. Vitaceae.**European grape.**

From the Union of Soviet Socialist Republics. Cuttings presented by the Institute of Plant Industry, Leningrad. Received May 13 and 20, 1965. Numbered Jan. 7, 1966.

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| 310442. 'Aromatnyi'. | 310446. 'Nuhurskii krupnyi'. |
| 310443. 'Bakhtiori'. | 310447. 'Olivet chernyi'. |
| 310444. 'Derzhanka'. | 310448. 'Rkatsileti'. |
| 310445. 'Khodsha Okhri'. | 310449. 'Urumyuzum'. |

310450 to 310456. PHASEOLUS VULGARIS L. Leguminosae.**Common bean.**

From Australia. Seeds presented by P. I. Pryke, Plant Breeding Laboratory, Burnley Gardens, Victoria. Original seed from Union of Soviet Socialist Republics. Received Jan. 7, 1966.

Parent plants inoculated in stem with halo blight.

Resistant to Race 1.

310450. 10285. 'Arneanskija Krasnaja'.
 310451. 8940/19305. 'Krasnodar Skaja 19305'.
 310452. 2060. 'Kirooskaja Vizuscyasja'.
 310453. 10726. 'Noldavakaja Uluecsinnaji'.
 310454. 10360/4. 'Savi Kharkovskaja'.

Susceptible to Race 1.

310455. 10230/517. 'Felenostronaja 517'.
 310456. 10733/302. 'Osetinskaja 302'.

310457 and 310458.

From Thailand. Seeds presented by John David Finlay, Robbins and McGowin Company, Brewton, Ala. Received Jan. 7, 1966.

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| 310457. PINUS INSULARIS Endl. Pinaceae. | Benguet pine. |
| 310458. PINUS MERKUSII Jungh. & DeVr. Pinaceae. | Pine. |

310459 to 310465. TRIFOLIUM PRATENSE L. Leguminosae.**Red clover.**

From Switzerland. Seeds presented by the Swiss Experiment Station for Agriculture, Zurich-Oerlikon. Received Jan. 7, 1966.

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| 310459. 'Dettenbuhl'. | 310463. 'Roggo'. |
| 310460. 'Estermann'. | 310464. 'Rutti'. |
| 310461. 'Leisi'. | 310465. 'Wild red'. |
| 310462. 'Renova'. | |

310466. CHENOPODIUM QUINOA Willd. Chenopodiaceae.**Quinoa.**

From the United States. Seeds grown at North Central Regional Plant Introduction Station, Ames, Iowa. Numbered Jan. 7, 1966.

310466—Continued

Original seed collected in Peru by Glenn Viehmeyer, North Platte Experiment Station, North Platte, Nebr. Annual to 5 feet high. Seeds extensively eaten in South America.

310467 and 310468. *SOLANUM TUBEROSUM* L. Solanaceae.

Potato.

From the Netherlands. Tubers presented by Wolf & Wolf, Amsterdam. Received Jan. 10, 1966.

310467. 'Desiree'.

310468. 'Urgenta'.

310469 and 310470. *PHASEOLUS VULGARIS* L. Leguminosae.

Common bean.

From France. Seeds presented by Vilmorin-Andrieux, Paris. Received Jan. 10, 1966.

310469. 'Case Knife or White Dutch'.

310470. 'Soissons Large White Runner'.

310471. *TRITICUM DICOCCUM* L. Gramineae.

From India. Seeds presented by the Division of Plant Introduction, Indian Agricultural Research Institute, New Delhi. Received Jan. 10, 1966.

E. 56. 'Khapli'.

310472 to 310478. *HIBISCUS ESCULENTUS* L. Malvaceae. **Okra.**

From India. Seeds presented by the Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Jan. 10, 1966.

310472. 'Pusa Sawani'. Popular commercial variety released by Indian Agricultural Research Institute.

310473. Selection 11-7. Round fruited.

310474. Selection 54-3-9 X PS. Hairy.

310475. I. C. 1542. 'Best-I'. Multi-edged.

310476. I. C. 7194. Hairy, resistant to Jassid.

310477. I. C. 8248. Dwarf, multi-edged.

310478. I. C. 9273. Red fruit.

310479. *CICER ARIETINUM* L. Leguminosae.

Chickpea.

From the United States. Seeds presented by R. S. Matlock, Oklahoma State University, Stillwater, Okla. Numbered Jan. 10, 1966.

CP-36. India.

310480 and 310481. *HORDEUM VULGARE* L. Gramineae.

From France. Seeds presented by Secobra, Societe d'Encouragement de la Culture des Orges de Brasserie, Maule. Received Jan. 10, 1966.

310480. 'Finistere 62-3'.

310481. 'Macroglumis'.

310482 and 310483.

From Canada. Seeds presented by the Central Experimental Farm, Research Branch, Canada Department of Agriculture, Ottawa. Received Jan. 10, 1966.

310482. *FESTUCA ELATIOR* L. Gramineae.

'Mimer'.

310482 and 310483—Continued

310483. *LOTUS CORNICULATUS* L. Leguminosae. **Birdsfoot trefoil.**
'Viking'.

310484 to 310486. *BRASSICA OLERACEA* var. *CAPITATA* L. Cruciferae. **Cabbage.**

From Canada. Seeds presented by the Central Experimental Farm, Research Branch, Canada Department of Agriculture, Morden, Manitoba. Received Jan. 10, 1966.

310484. 'Junior'.

310485. 'Little Leaguer'.

310486. 'Pee Wee'.

310487. *GOSSYPIUM HIRSUTUM* L. Malvaceae. **Upland cotton.**

From Malta. Seeds presented by J. J. Conroy, American Embassy, Valletta. Received Jan. 10, 1966.

'Acala 4-42'.

310488. *CAPSICUM ANNUUM* var. *MINIMUM* (mill.) Heis. Solanaceae. **Chiltapin.**

From Mexico. Fruits collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 10, 1966.

Col. No. 21930. San Bernardo, Sonora. Short-tree forest area. Elevation 310 meters. Plant slender, virgate shrub to 1.5 meter high. Fruit small, red berry used for seasoning.

310489 to 310493. *SOLANUM PHUREJA* Juz. & Buk. Solanaceae.

From Columbia. Tubers presented by the Rockefeller Foundation, Bogota. Received Jan. 10, 1966.

310489. C.C.C. No. 1339. 'Criolla'.

310490. C.C.C. No. 1350. 'Limona or Amarilla'. Lago de Tota.

310491. C.C.C. No. 1386. KSD-117.

310492. C.C.C. No. 1388. KSD-122.

310493. C.C.C. No. 1395. KSD-39.

310494 to 310510.

From the United States. Plant material collected in Oregon by R. L. Ticknor and W. A. Sheets, North Willamette Experiment Station, Aurora, Oreg. Numbered Jan. 10, 1966.

310494. *CEANOTHUS DIVERSIFOLIUS* Keller Rhamnaceae.

Col. No. 111. Parker Mountain Summit on Oregon 66, 22.3 miles west of Keno, Klamath County. Elevation 4,362 feet. Leaves 22 by 33 mm.

310495 to 310497. *CEANOTHUS FRESNENSIS* Dudley

310495. Col. No. 109. State highway maintenance area 0.3 mile east of 34 mile post on Oregon 66, Klamath County. Elevation 4,400 meters. Leaves 18 by 40 mm.

Parker Mountain Summit on Oregon 66, 22.3 miles west of Keno, Klamath County.

310496. Col. No. 110. Leaves 9 by 26 mm., small for the area.

310497. Col. No. 112. Leaves 19 by 26 mm.

310494 to 310510—Continued**310498 to 310510. CEANOTHUS PROSTRATUS Benth.**

North Umpqua highway 3 miles east of Clearwater No. 1 Power House, Douglas County. Elevation 4,760 feet.

310498. Col. No. 89. Leaves 9 by 19 mm. Plant 2.44 meters across.

310499. Col. No. 90. Leaves 16 by 31 mm.

310500. Col. No. 91. Leaves 16 by 31 mm.

310501. Col. No. 92. Leaves 16 by 33 mm.

310502. Col. No. 96. Sun Pass on Oregon 232, Klamath County. Elevation 4,770 feet. Leaves 20 by 30 mm.

Doak Mountain 14 miles from Link River Bridge on Lake of the Woods road, Klamath County. Elevation 4,830 feet.

310503. Col. No. 98. Leaves 18 by 27 mm., bluish green.

310504. Col. No. 99. Leaves 9 by 21 mm.

On Oregon 66, 4.5 miles west of Keno, Klamath County. Elevation 4,300 feet.

310505. Col. No. 102. Leaves 10 by 25 mm., upright spurs.

310506. Col. No. 103. Leaves 12 by 25 mm.

Hayden Summit on Oregon 66, Klamath County. Elevation 4,695 feet.

310507. Col. No. 104. Leaves 18 by 30 mm.

310508. Col. No. 105. Leaves 11 by 30 mm.

310509. Col. No. 108. State highway maintenance area 0.3 mile east of 34 mile post on Oregon 66, Klamath County. Elevation 4,400 feet. Leaves 19 by 46 mm.

310510. Col. No. 113. Parker Mountain Summit on Oregon 66, 22.3 miles west of Keno, Klamath County. Elevation 4,362 feet. Leaves 17 by 40 mm.

310511 and 310512. PHASEOLUS VULGARIS L. Leguminosae.

Common bean.

From Honduras. Seeds collected by George Freytag, Escuela Agricola Pan-Americana, Tegucigalpa. Received Jan. 11, 1966.

310511. 'Calima'.

310512. 'Nima'.

310513 to 310604. PHASEOLUS VULGARIS L. Leguminosae.

Common bean.

From Honduras. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 11, 1966.

310513. Col. No. 20748. Copan, Copan Department. Elevation 1,800 feet. Small, black, variable pods, whitish purple, streaked.

310514. Col. No. 20786. Near La Labor along road to Ocotopeque. Elevation 2,500 feet. Small, dark reddish brown; pod color varies. Mixed varieties.

310515. Col. No. 21469. Market in Talanga. Elevation 2,500 feet. Small, red to brown, bush type.

310516. Col. No. 21470. Restaurant in Talanga. Elevation 2,500 feet. Small, red to brownish, bush type.

Juticalpa, Olancho Department. Elevation 1,000 feet. May to September.

310513 to 310604—Continued

310517. Col. No. 21476. Uniform, dark red.
310518. Col. No. 21477. Small, well rounded; red, some mixed colors, bush type.
310519. Col. No. 21478. Santa Maria Real, Olancho Department. Elevation 1,200 feet. 'Mono'. Small, dull black, bush type. May to September.
- Catacamas, Olancho Department. Elevation 1,200 feet. May to September.
310520. Col. No. 21479. 'Pondo' and 'Mono'. Mixed.
310521. Col. No. 21480. Dark red, bush type.
310522. Col. No. 21481. 'Mono'. Black, bush type.
310523. Col. 21482. Light red to dark red, bush type.
310524. Col. No. 21483. Guaimaca, Francisco Department. Elevation 1,000 feet. Small, dark red, bush type. May to September.
- Minas de Oro, Comayagua Department. Elevation 2,800 feet. May to September.
310525. Col. No. 21484. 'Vaina blanca'. Red with white pods, bush type.
310526. Col. No. 21486. Dark to light red, bush type.
310527. Col. No. 21487. 'Pando'. Small, elongate, uniform, black, bush type.
310528. Col. No. 21488. 'Liberal'. Mixed, red, bush type.
310529. Col. No. 21489. Small, red, bush type.
310530. Col. No. 21490. Mixed, black, bush type.
310531. Col. No. 21491. 'Liberal obscuro'. Small, dark red, bush type.
- Porvenir, Francisco Department. Elevation 1,600 feet. Bush type.
310532. Col. No. 21492. Small, variable, reddish brown. May to September.
310533. Col. No. 21493. 'Pando'. Small, elongate, black. May to September.
310534. Col. No. 21495. Siria en Valle Cedros, Francisco Department. Elevation 2,000 feet. 'Chingo'. Small, variable, red, bush type. May to September.
- Cedros, Francisco Department. Elevation 2,400 feet.
310535. Col. No. 21496. 'Zamorano'. Mixed, red, bush. May to September.
310536. Col. No. 21497. 'Liberal'. Small, light to dark red, bush type. May to September.
310537. Col. No. 21498. Small white.
310538. Col. No. 21499. Dark, dusty red, bush type.
- Market in Comayaguela, Central District. Elevation 2,500 feet. Bush types.
310539. Col. No. 21500. Dark red.
310540. Col. No. 21501. Dark red.
310541. Col. No. 21502. Well filled, dark red.
310542. Col. No. 21503. Uniform, well filled, dark red.
310543. Col. No. 21504. Red, mixed with variegated.
310544. Col. No. 21505. Well filled, black.

310513 to 310604—Continued

310545. Col. No. 21506. Black.
310546. Col. No. 21507. Dark red.
310547. Col. No. 21508. Uniform, well filled, dark red mixed with black.
310548. Col. No. 21509. Small, red.
310549. Col. No. 21510. Uniform, pink.
310550. Col. No. 21511. Comali near San Marcos, Choluteca Department.
Elevation 3,000 feet. Small oblong, red, bush type, terminal runners,
flowers white, fading yellow.
- San Marcos, Choluteca Department. Elevation 3,000 feet. May to Sep-
tember.
310551. Col. No. 21512. Small, dark red, color variations.
310552. Col. No. 21513. Variable.
- Lejamani, Comayagua Department. Elevation, 2,000 feet.
310553. Col. No. 21645. 'Teneco'. Black, vine type.
310554. Col. No. 21646. 'de Malpa'. Small, black.
310555. Col. No. 21647. 'Sangre de Toro'. Dark red and light red mixed,
bush type.
310556. Col. No. 21650. 'Maton'. Dark red, bush type.
310557. Col. No. 21651. Small, black.
- La Paz, Comayagua Department. Elevation 2,000 feet. Bush type.
310558. Col. No. 21652. 'Rico'. Small, uniform, black.
310559. Col. No. 21653. 'Colorado'. Small, red and black mixed.
310560. Col. No. 21654. 'Talete'. Small, rounded, red, variable.
- Ajuterique, Comayagua. Elevation 2,000 feet.
310561. Col. No. 21656. Small, uniform, well filled, black, bush type.
310562. Col. No. 21657. Small, angular, red, bush type.
310563. Col. No. 21658. 'Arbolito'. Black. Bush erect with thick, strong
stems. Disease resistant.
310564. Col. No. 21659. 'Maton'. Red, bush type, mixed color and sizes.
- San Antonio, Comayagua Department. Elevation 2,000 feet. Bush type.
310565. Col. No. 21660. Dark red.
310566. Col. No. 21661. Small, red, variable.
310567. Col. No. 21662. Small, dark red.
310568. Col. No. 21663. San Jose, Comayagua Department. Elevation
2,000 feet. Dark red, bush type.
- Las Flores, Comayagua Department. Elevation 1,700 to 2,000 feet. Bush
type.
310569. Col. No. 21664. Small, red variable.
310570. Col. No. 21665. Small, dark red, variable.
310571. Col. No. 21666. Dark red.
310572. Col. No. 21667. Small, red.
310573. Col. No. 21668. Las Mercedes, Comayagua Department. Eleva-
tion 2,000 feet. 'Arbolito'. Small, uniform, rounded, black, grown on
bushlet, strong, erect, flowers purple.
- Market in Comayagua. Elevation 1,700 feet.

310513 to 310604—Continued

310574. Col. No. 21669. 'Zamorano'. Red, bush type.
 310575. Col. No. 21670. Small, black.
 310576. Col. No. 21671. Red, variable, bush type.
 310577. Col. No. 21672. 'Zamorano'. Well filled, dark red, bush type.
 310578. Col. No. 21673. 'Matron'. Small, red, variable, bush type.
 310579. Col. No. 21674. 'Cojeton'. Greasy, black.
 310580. Col. No. 21676. Red, mixed colors and sizes, bush type.
 310581. Col. No. 21677. Well filled, black.
 310582. Col. No. 21678. White.
 310583. Col. No. 21679. Black with white pods.
 310584. Col. No. 21680. 'Charana'. Small, shiny, red, bush type.
 Jesus de Otoro, Intibuca Department. Elevation 1,700 feet.
 310585. Col. No. 21681. 'Colorado'. Light red mixed with other colors, bush to semibush types.
 310586. Col. No. 21682. 'Sangre de Toro'. Dark red mixed with other colors, bush and semibush.
 310587. Col. No. 21683. 'Talete'. Small, red, mixed sizes, bush type, August to November.
 310588. Col. No. 21684. 'Talete'. Uniform, black, bush type.
 310589. Col. No. 21685. 'Mezela'. Various colors, bush type.
 310590. Col. No. 21686. Light red bush type.
 310591. Col. No. 21687. 'Milpero'. Round, well-filled, dark, variable in size.
 310592. Col. No. 21688. Well-filled, dark red.
 Siguatepeque, Comayagua Department. Elevation 3,500 feet.
 310593. Col. No. 21690. Uniform, well-rounded, black.
 310594. Col. No. 21691. 'Talete'. Red, bush type.
 310595. Col. No. 21692. 'Talete'. Red, mixed sizes and shades.
 310596. Col. No. 21693. 'Matron'. Small, light red, variable, bush type.
 310597. Col. No. 21694. 'Talete'. Small, uniform, black.
 310598. Col. No. 21695. 'Talete'. Small, red, bush type.
 310599. Col. No. 21696. 'Balin'. Small, uniform, black.
 310600. Col. No. 21697. 'Stica'. Red.
 310601. Col. No. 21698. Black and red mixture.
 310602. Col. No. 21699. 'Comun'. Small, pale red, bush type.
 310603. Col. No. 21700. 'Colocho'. Small, uniform, black.
 310604. Col. No. 21701. 'Stica'. Well filled, variable red.

310605 to 310619.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 11, 1966.

- 310605 and 310606. PHASEOLUS ACUTIFOLIUS A. Gray Leguminosae.
 Market in Tapachula, Chiapas. Elevation 500 feet.

310605 to 310619—Continued**310605 and 310606—Continued**

310605. Col. No. 21340. 'Escumite'. Small, light colored, speckled or tan.

310606. Col. No. 21350. 'Escumite'. Small, speckled.

310607 to 310619. PHASEOLUS VULGARIS L. Leguminosae. Common bean.

310607. Col. No. 21110. About 6.5 miles northwest of Zamora, Michoacan. Elevation 5,200 feet. 'Flor de Mayo'. Small, pinkish, bush type. Flowers white.

Market in Tapachula, Chiapas. Elevation 500 feet.

310608. Col. No. 21336. 'Frijol del suelo'. Full, uniform, black.

310609. Col. No. 21337. 'Frijol del suelo'. Small, shiny black.

310610. Col. No. 21338. 'Frijol rosita'. Small, uniform, red.

310611. Col. No. 21339. 'Frijol de bara'. Dark purplish black.

310612. Col. No. 21341. 'Frijol del suelo'. Common, black.

310613. Col. No. 21343. 'Frijol cacahuat'. Long, large, pale red, pole type.

310614. Col. No. 21344. 'Frijol de bara'. Uniform, well filled, black.

310615. Col. No. 21345. 'Frijol cacahuat'. Large, long, light colored with red spots.

310616. Col. No. 21346. Small, red.

310617. Col. No. 21347. Common, black, bush type.

310618. Col. No. 21348. 'Frijol vaquita'. White with red spots.

310619. Col. No. 21351. 'Ojo de lievre'. Large, long, pale speckled with lavender.

310620 to 310799.

From Guatemala. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 12, 1966.

310620 to 310627. PHASEOLUS LUNATUS L. Leguminosae. Lima bean.

310620. Col. No. 20893. Market in Cuilapa, Santa Rosa Department. Elevation 2,500 feet. 'Piligue'. Large, mixed black and red.

310621. Col. No. 20920. Market in Jalapa. Elevation 5,300 feet. 'Pelique'. Black.

310622. Col. No. 20966. Market in Zacapa. Elevation 600 feet. Black, pole type.

Market in Coban, Alta Verapaz. Elevation 4,300 feet.

310623. Col. No. 20992. 'Ixtapacal'. Thin, black.

310624. Col. No. 20993. 'Ixtapacal'. Black.

310625. Col. No. 20995. 'Ixtapacal'. Black.

310626. Col. No. 21013. Market in San Cristobal, Alta Verapaz Department. Elevation 4,500 feet. 'Ixtapacal'. Black.

310627. Col. No. 21437. Indian market in Aguacatan, Huehuetenango Department. Elevation 6,000 feet. 'Chaparota'. Black.

310628 to 310799. PHASEOLUS VULGARIS L. Leguminosae. Common bean.

Market in Chichicastenango, Quiche Department. Elevation 7,000 feet.

310628. Col. No. 20817. Round, white.

310620 to 310799—Continued**310628 to 310799—Continued**

310629. Col. No. 20818. Small, black, pole type.
310630. Col. No. 20820. Thick, roundish, white.
310631. Col. No. 20821. Roundish, black, pole type.
310632. Col. No. 20822. Small, black, bush type.
310633. Col. No. 20823. Brindled gray and black, pole type. Rare.
310634. Col. No. 20824. White, bush type. Common.
310635. Col. No. 20825. Shiny, black, pole type.
310636. Col. No. 20826. Slender, white, bush type.
310637. Col. No. 20827. Small, yellow.
310638. Col. No. 20828. Full round, white. Common.
310639. Col. No. 20829. Small, black mixed with dark red.
310640. Col. No. 20832. Mixture of varieties and colors. Pole type.
310641. Col. No. 20833. Small, slender, tan and yellow.
310642. Col. No. 20835. Thick roundish, black.
Market in Quezaltenango. Elevation 6,000 feet.
210643. Col. No. 20842. Round, black.
310644. Col. No. 20844. Mixed sizes white, bush type.
310645. Col. No. 20845. Size and shape uniform. Black.
310646. Col. No. 20846. Yellow with some reds.
310647. Col. No. 20847. Yellow, probably bush type.
310648. Col. No. 20849. Black.
310649. Col. No. 20851A. Mixed sizes, white, some dun colored.
Panajachel, Solola Department. Elevation 5,000 feet.
310650. Col. No. 20851. Black, pole type.
310651. Col. No. 20853. Seeds black, pods purple, bush type.
Market in Solola. Elevation 7,500 feet.
310652. Col. No. 20854. Black.
310653. Col. No. 20855. Black.
310654. Col. No. 20856. Black.
310655. Col. No. 20857. White, bush type.
310656. Col. No. 20858. Black.
Tecpan, Chimaltenango Department. Elevation 6,500 feet.
310657. Col. No. 20859. White, bush type.
310658. Col. No. 20861. Black.
Parramos, Chimaltenango Department. Elevation 6,000 feet.
310659. Col. No. 20863. Small, black, bush type. Cooks quickly.
310660. Col. No. 20864. White, bush type.
Market in Antigua. Elevation 5,000 feet.
310661. Col. No. 20865. Small, black.
310662. Col. No. 20866. Said to be grown in Isapa.
310663. Col. No. 20867. Black.

310620 to 310799—Continued**310628 to 310799—Continued**

310664. Col. No. 20868. White. Said to be grown in Parramos.
 310665. Col. No. 20869. Black. Said to be grown in Santa Maria de Jesus.

Market in Barberena, Santa Rosa Department. Elevation 3,600 feet.

310666. Col. No. 20872. Black.
 310667. Col. No. 20873. Black.
 310668. Col. No. 20874. Small, black.
 310669. Col. No. 20875. Black, probably bush type.
 310670. Col. No. 20877. Bright red, bush type.
 310671. Col. No. 20878. Small, black.
 310672. Col. No. 20879. Black.
 310673. Col. No. 20880. Small, red, bush type.
 310674. Col. No. 20882. Small, red brindled, bush type.
 310675. Col. No. 20883. Small, uniform, black.
 310676. Col. No. 20884. White, bush type.
 310677. Col. No. 20885. Small, black, bush type.

Market in Cuilapa, Santa Rosa Department. Elevation 2,500 feet.

310678. Col. No. 20889. Black.
 310679. Col. No. 20890. Small, dark red, bush type.
 310680. Col. No. 20891. Black.
 310681. Col. No. 20892. Small, red, bush type.
 310682. Col. No. 20894. White, pole type.
 310683. Col. No. 20895. Medium sized, bright black, pole type.
 310684. Col. No. 20897. Small, dark red, pole type.
 310685. Col. No. 20898. Medium sized, shiny, black, pole type.

Market in Jutiapa, Jutiapa Department. Elevation 3,000 feet.

310686. Col. No. 20899. Small, dusky, black, bush type.
 310687. Col. No. 20901. Small, white, pole type.
 310688. Col. No. 20902. White, bush type. Common.
 310689. Col. No. 20903. Black, bush type.
 310690. Col. No. 20904. Medium sized, dusky, black, bush type.
 310691. Col. No. 20905. Small, black, bush type.
 310692. Col. No. 20906. Market in Progreso, Jutiapa Department. Elevation 3,000 feet. Small, dull black, bush type.

Valle Monjos, Jalapa Department. Elevation 3,500 feet.

310693. Col. No. 20908-A. Small, black.
 310694. Col. No. 20909. Black, bush type.
 Market in Jalapa, Jalapa Department. Elevation 4,300 feet.
 310695. Col. No. 20911. Small, black with white eye, pole type.
 310696. Col. No. 20913. Small, black, bush type.
 310697. Col. No. 20916. Small, black.

310620 to 310799—Continued**310628 to 310799—Continued**

310698. Col. No. 20919. Small, black, bush type.
 310699. Col. No. 20922. Small, black, bush type.
 310700. Col. No. 20924. Small, white, bush type.
 310701. Col. No. 20927. Small, shiny, black, pole type.
 310702. Col. No. 20931. Small, thick, black.
 310703. Col. No. 20932. Small, black, bush type.
 310704. Col. No. 20933. Shiny, black, pole type.
 310705. Col. No. 20943. Small, uniform, black.
 310706. Col. No. 20945. San Luis, Jalapa Department. Elevation 2,500 feet. Small, black, bush type.

Market in Ipala, Chiquimula Department. Elevation 2,500 feet.

310707. Col. No. 20952. Small, white, bush type, disease resistant. Extensively planted.
 310708. Col. No. 20953. Small, black, bush type, disease resistant. Extensively planted.

310709. Col. No. 20954. Black, bush type, disease resistant.

310710. Col. No. 20955. Small, red, bush type.

Market in Chiquimula. Elevation 1,000 feet.

310711. Col. No. 20958. Black, bush type.
 310712. Col. No. 20959. Black, bush type.
 310713. Col. No. 20961. White, bush type.
 310714. Col. No. 20962. 'del Barrial'. White.
 310715. Col. No. 20963. Red, bush type.

Market in Zacapa. Elevation 600 feet.

310716. Col. No. 20967. White, bush type.
 310717. Col. No. 20968. Red, bush type.
 310718. Col. No. 20969. White. Common.

Market in Salama, Baja Verapaz Department. Elevation 2,500 feet.

310719. Col. No. 20975. Black, bush type.
 310720. Col. No. 20986. Black, bush type.
 310721. Col. No. 20981. Tactic, Alta Verapaz Department. Elevation 4,000 feet. Reddish, bush type.

Between Santa Cruz and Coban, Alta Verapaz Department. Elevation 4,500 feet.

310722. Col. No. 20982. Small, drought inhibited, black, bush type.
 310723. Col. No. 20983. Small, black, bush type.

Market in Coban, Alta Verapaz Department. Elevation 4,300 feet.

310724. Col. No. 20987. Black, pole type.
 310725. Col. No. 20989. Black, bush type.
 310726. Col. No. 20996. 'Xucu mama'. Brown, pole type.
 310727. Col. No. 20998. Small, round, white, bush type.
 310728. Col. No. 20999. Black, bush type.

310620 to 310799—Continued**310628 to 310799—Continued**

- 310729.** Col. No. 21001. White, bush type.
Between Carcha and Coban, Alta Berapaz. Elevation 4,300 feet.
- 310730.** Col. No. 21004. Small, black, bush type, drought inhibited.
- 310731.** Col. No. 21005. Small, red, bush type.
Market in Santa Cruz, Alta Verapaz. Elevation 4,500 feet.
- 310732.** Col. No. 21006. Small, black, bush type.
- 310733.** Col. No. 21007. White, bush type.
Market in San Cristobal, Alta Verapaz. Elevation 4,500 feet.
- 310734.** Col. No. 21012. Brown, bush type.
- 310735.** Col. No. 21014. Black, bush type.
- 310736.** Col. No. 21016. Dark lavender.
- 310737.** Col. No. 21017. Small, white, bush type.
- 310738.** Col. No. 21019. White, bush type.
- 310739.** Col. No. 21020. Black.
- 310740.** Col. 21021. Store in Chicaman, Alta Verapaz. Elevation 4,000 feet. Black.
Market in Uspantan, Quiche Department. Elevation 5,000 feet.
- 310741.** Col. No. 21022. White bush type.
- 310742.** Col. No. 21024. Black.
- 310743.** Col. No. 21025. Very uniform, well developed, black.
- 310744.** Col. No. 21027. Store in Sacapulas, Quiche Department. Elevation 4,000 feet. Black, pole type.
Store in Quiche. Elevation 6,000 feet.
- 310745.** Col. No. 21028. Black, bush type.
- 310746.** Col. No. 21029. Black, pole type.
- 310747.** Col. No. 21030. Schieber farm at Parramos. Red, bush type, regularly planted, good yield and flavor.
- 310748.** Col. No. 21364. Store in Chimaltenango. Elevation 5,500 feet. Small, uniform, black.
Market in Antigua. Elevation 5,000 feet.
- 310749.** Col. No. 21367. Small, plump, white, bush type.
- 310750.** Col. No. 21368. Black, bush type.
- 310751.** Col. No. 21369. White.
- 310752.** Col. No. 21370. Small, dark red.
- 310753.** Col. No. 21371. Black, bush type.
- 310754.** Col. No. 21372. Mixed pink and dark red, bush type.
- 310755.** Col. No. 21373. Pole type, eaten green and dried.
- 310756.** Col. No. 21374. Long, dark red, pole type.
- 310757.** Col. No. 21375. Bush type.
- 310758.** Col. No. 21376. Small, red.
- 310759.** Col. No. 21377. Long, dark reddish-brown, pole type.
- 310760.** Col. No. 21379. Black, bush type.

310620 to 310799—Continued**310628 to 310799—Continued**

310761. Col. No. 21380. Small, round, white, pole type.
310762. Col. No. 21381. Tan to reddish, maturity 60 days, eaten dry or fresh.
310763. Col. No. 21382. Uniform, angular, white.
310764. Col. No. 21383. Small, uniform, dark red.
310765. Col. No. 21384. Poorly filled, pale glossy red.
310766. Col. No. 21385. Uniform, shiny tan yellow.
310767. Col. No. 21394. Santa Maria de Jesus, Guatemala District. Elevation 6,400 feet. Black, bush type.

Market in Totonicapan. Elevation 8,000 feet.

310768. Col. No. 21398. Large, uniform, white, bush type.
310769. Col. No. 21399. Black, bush type.
310770. Col. No. 21401. Well filled, white.
310771. Col. No. 21403. Small, black.
310772. Col. No. 21404. White, bush type.
310773. Col. No. 21405. Small, red, bush type.
310774. Col. No. 21406. Shiny black with conspicuous white eye.

Market in Quezaltenango. Elevation 7,250 feet.

310775. Col. No. 21409. Black, bush type.
310776. Col. No. 21411. Mixed, mostly red, bush type.
310777. Col. No. 21412. White, bush type.
310778. Col. No. 21413. Uniform, yellow, bush type.
310779. Col. No. 21414. Long, brownish, pole type.
310780. Col. No. 21415. Black, pole type.
310781. Col. No. 21416. Black, bush type.
310782. Col. No. 21417. Full rounded, black.
310783. Col. No. 21418. Roundish, black.
310784. Col. No. 21419. Small, white, bush type.
310785. Col. No. 21420. Small, black, shiny.
310786. Col. No. 21421. Small, red, bush type.
310787. Col. No. 21422. Small, roundish, white, bush type.

Market in Huehuetenango. Elevation 6,000 feet.

310788. Col. No. 21427. Black, bush type.
310789. Col. No. 21428. White, bush type.
310790. Col. No. 21429. Uniform, black, bush type.
310791. Col. No. 21430. Small, red, bush type.
310792. Col. No. 21431. Small, black, bush type.
310793. Col. No. 21432. Small, dark red, bush type.
310794. Col. No. 21433. Uniform, black, bush type.

Indian market in Aguacatan, Huehuetenango Department. Elevation 6,000 feet.

310795. Col. No. 21436. Black, bush type.

310620 to 310799—Continued**310628 to 310799—Continued**

310796. Col. No. 21438. Uniform, shiny black.
 310797. Col. No. 21439. Uniform, small, black, bush type.
 310798. Col. No. 21440. Uniform, round, dark red, pole type.
 310799. Col. No. 21441. Market in Sacapulas. Elevation 5,000 feet.
 Small, black, bush type.

310800 to 310921.

From Nicaragua. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 13, 1966.

310800 to 310803. PHASEOLUS ACUTIFOLIUS A. Gray Leguminosae.

310800. Col. No. 21548. Market in Chinandega. Small, white.
 Market in Rivas. Elevation 200 feet.
 310801. Col. No. 21567. Small, dark-blotched, winter type.
 310802. Col. No. 21570. Small, white.
 310803. Col. No. 21632. Somoto. Elevation 2,400 feet. Small, white.

310804 to 310921. PHASEOLUS VULGARIS L. Leguminosae. Common bean.

Cerro Mombacho, 6 miles south of Cartago. Elevation 600 feet.

310804. Col. No. 21515. Small, red, bush type.
 310805. Col. No. 21516. Small, bright red, bush type. June to September.

Diriomo, Granada Department. Elevation 800 feet. Bush type. Grown June to September.

310806. Col. No. 21517. Small, shiny red with some color variations.
 310807. Col. No. 21518. Small, buff.
 310808. Col. No. 21519. Yellowish buff.
 310809. Col. No. 21520. Variable, pale, buff.
 310810. Col. No. 21521. Uniform, well filled, dun colored.
 310811. Col. No. 21522. Dark red.
 310812. Col. No. 21524. Small, red.
 310813. Col. No. 21525. Yellowish buff.
 310814. Col. No. 21526. Small, bright buff.
 310815. Col. No. 21527. Bright dark red.

Divia, Granada Department. Elevation 900 feet.

310816. Col. No. 21528. Buff, bush type.
 310817. Col. No. 21529. Red, bush type. June to September.
 310818. Col. No. 21530. Pale buff, bush type. June to September.
 310819. Col. No. 21531. Dark dun-colored, bush type. Resistant to wet soils, late maturing, good yield.
 310820. Col. No. 21532. Small, red, bush type. June to September.
 Nandaime, Granada Department. Elevation 400 feet.
 310821. Col. No. 21533. Small, bush type. June to September.
 310822. Col. No. 21534. 'Frijol color santo'. Bayo mixed with red, bush type. June to September.

310800 to 310921—Continued

310804 to 310921—Continued

310823. Col. No. 21535. Small, thin, red with some mixed colors.

310824. Col. No. 21536. Well filled, dark red, bush type.

Market in Granada. Elevation 150 feet.

310825. Col. No. 21537. Dark red mixed with other colors, bush type.

310826. Col. No. 21538. Light brown, bush type.

310827. Col. No. 21539. Thin, uniform, dun-colored, bush type.

310828. Col. No. 21540. Light buff, bush type.

310829. Col. No. 21541. Small, red, bush type. June to September.

310830. Col. No. 21542. Small, dun-colored, bush type.

310831. Col. No. 21543. Uniform, slate-gray, bush type.

310832. Col. No. 21544. Mixed, light brown to slate-gray, bush type.

Market in Chinandega. Bush types.

310833. Col. No. 21545. Red with white eye.

310834. Col. No. 21546. Small, red. June to September.

310835. Col. No. 21547. Black.

310836. Col. No. 21549. Small, pale pink, some yellow.

310837. Col. No. 21550. Small, dark red. Variable.

310838. Col. No. 21551. Uniform, well rounded, dark red.

310839. Col. No. 21552. Pale buff.

310840. Col. No. 21553. Dark red. June to September.

310841. Col. No. 21554. Dark red.

310842. Col. No. 21555. Short, rounded, black.

310843. Col. No. 21556. Pale buff. June to September.

310844. Col. No. 21557. Uniform, pale pink. June to September.

310845. Col. No. 21558. Dark red.

310846. Col. No. 21559. Dun-colored.

Market in Rivas. Elevation 200 feet.

310847. Col. No. 21561. 'Obscura'. Dark red. June to September.

310848. Col. No. 21562. Small, pink. June to September.

310849. Col. No. 21563. Oblong, pale.

310850. Col. No. 21564. Tan.

310851. Col. No. 21565. Red. June to September.

310852. Col. No. 21566. Uniform, dark red. June to September.

310853. Col. No. 21568. Black.

310854. Col. No. 21569. Small, red. June to September.

Farm near Santa Teresa, Carazo Department. Elevation 1,500 feet.

Bush types. June to September.

310855. Col. No. 21571. Small, red.

310856. Col. No. 21572. Small, pink.

Santa Cruz, Carazo Department. Elevation 1,500 feet.

310857. Col. No. 21573. 'Colorado'. Small, red, bush type.

310800 to 310921—Continued

310804 to 310921—Continued

310858. Col. No. 21574. 'Obscura'. Dark red. June to September.
310859. Col. No. 21575. 'Colorado'. Small, red, bush type.
310860. Col. No. 21576. Dolores, Carazo Department. Elevation 1,600 feet. Pink, bush type.
- In field 3 miles west of Santo Tomas, Chontales Department. Elevation 1,300 feet.
310861. Col. No. 21579. 'Colorado'. Pods pink, bush with some runners.
310862. Col. No. 21580. 'Colorado'. Long white pods. Bush.
310863. Col. No. 21581. Santo Tomas, Chontales Department. Elevation 1,300 feet. 'Colorado'. Uniform, well filled, red.
- Juigalapa, Chontales Department. Elevation 1,000 feet.
310864. Col. No. 21582. 'Colorado'. Bright dark red.
310865. Col. No. 21583. 'Cuaranteno'. Pink and red.
310866. Col. No. 21584. 'Chontaleno'. Dark red, bush type.
310867. Col. No. 21585. 'Colorado'. Red, bush type.
- Boaco, Boaco Department. Elevation 1,500 feet.
310868. Col. No. 21587. 'Obscuro'. Dark red, bush type.
310869. Col. No. 21588. 'Revuelta'. Mixed light and dark red.
310870. Col. No. 21589. Uniform, well filled, dark red to red.
310871. Col. No. 21590. Red, bush type.
310872. Col. No. 21591. 'Claro'. Small, light red, bush type.
310873. Col. No. 21592. Pale buff.
310874. Col. No. 21593. Small, light red, bush type.
310875. Col. No. 21594. Mixed size and color. Mostly red, bush type.
- Jinotega, Jinotega Department. Elevation 4,000 feet.
310876. Col. No. 21595. Pale yellow. June to September. Wet climate.
310877. Col. No. 21596. Light brown, bush type. June to September.
310878. Col. No. 21597. Variable, red, bush type. June to September.
310879. Col. No. 21598. Dark gray, bush type. June to September.
310880. Col. No. 21599. Pink, bush type. June to September.
310881. Col. No. 21600. Small, bright red, bush type. June to September.
310882. Col. No. 21601. Small, light yellow. June to September.
310883. Col. No. 21602. Pale pink, bush type.
310884. Col. No. 21603. 'Quilaliano'. Size and pattern uniform, pale pink mottled.
310885. Col. No. 21604. Pale yellow, bush type. June to September.
310886. Col. No. 21605. 'Bareno'. Gray-brown.
310887. Col. No. 21606. Short, well filled, red, bush type. June to September.
310888. Col. No. 21607. 'Hualiseno'. Mottled, pink.
310889. Col. No. 21608. Pale yellow, bush type.

310800 to 310921—Continued

310804 to 310921—Continued

310890. Col. No. 21609. 'Plomo'. Uniform, lead gray, bush type. June to September.
310891. Col. No. 21610. Small, rounded, dark red, bush type. June to September.
310892. Col. No. 21611. 'Hualiseno'. Pale, blocky, bayo bush type. Matagalpa. Elevation 4,000 feet.
310893. Col. No. 21613. Slate colored.
310894. Col. No. 21614. Red, bush type. June to September.
310895. Col. No. 21615. 'Talanquito'. Small, pale buff, bush type.
310896. Col. No. 21616. 'Kaki'. Brownish, bush type.
310897. Col. No. 21617. Well filled, dark red, bush type.
310898. Col. No. 21618. 'Kaki'. Brown, bush type. June to September.
310899. Col. No. 21619. Small, thin, buff, bush type.
310900. Col. No. 21620. 'Balin'. Small, well rounded, buff, bush type.
310901. Col. No. 21621. Dark red, bush type. Esteli. Elevation 2,800 feet.
310902. Col. No. 21623. 'Colorado'. Dark red, bush type.
310903. Col. No. 21624. Red, bush type. June to September.
310904. Col. No. 21624-A. 'Barreno'. Slate colored, bush type.
310905. Col. No. 21625. Slate brown. June to September.
310906. Col. No. 21626. Uniform, shiny, light red.
310907. Col. No. 21627. Light red, bush type. June to September.
310908. Col. No. 21628. Slate brown, bush type. June to September.
310909. Col. No. 21629. Small, uniform, black, bush type. June to September.
- Somoto, Madriz Department. Elevation 2,400 feet.
310910. Col. No. 21633. Small, mixed dark and light red.
310911. Col. No. 21634. Small, dark red, bush type. June to September.
310912. Col. No. 21635. Small, red, bush type. June to September.
- Palacaguina, Madriz Department. Elevation 2,000 feet.
310913. Col. No. 21636. Small, dark red, bush type.
310914. Col. No. 21637. Mixed, mostly red, bush type.
310915. Col. No. 21638. Talpaneca, Madriz Department. Elevation 1,750 feet. Red, bush type.
- Ocotal, Segovia Department. Elevation 1,800 feet.
310916. Col. No. 21639. Dark red, bush type. June to September.
310917. Col. No. 21640. Dark red, bush type.
310918. Col. No. 21641. Mixed red and dark red.
310919. Col. No. 21642. Small, light red, bush type. June to September.
310920. Col. No. 21643. Dark red, bush type.
310921. Col. No. 21644. Mixed, mostly red, bush type.

310922. *CANNA IRIDIFLORA* Ruiz. & Pav. Cannaceae.

From California. Rhizomes presented by the Department of Biological Science, University of California, Santa Barbara. Received Jan. 13, 1966.

310923 to 310936.

From Bolivia. Seeds collected by Donald Ugent, Department of Botany, University of Wisconsin, Madison, Wis. Numbered Jan. 14, 1966.

310923 and 310924. *SOLANUM ACAULE* Bitter Solanaceae.

310923. Col. No. 4773. Puente San Miguel, Tunari Range, above Cochabamba.

310924. Col. No. 5153. Potosi.

310925 to 310927. *SOLANUM BERTHAULTII* Hawkes

310925. Col. No. 4560a. Cerro de San Pedro, Cochabamba.

310926. Col. No. 4561. Cerro de San Pedro, Cochabamba.

310927. Cerro de San Pedro, Cochabamba. Donated by Mrs. Carlos Ochoa.

310928. *SOLANUM BOLIVIENSE* Dunal

Col. No. 4896. "Pummila", near Sucre, in barleyfield.

310929 and 310930. *SOLANUM BREVICAULE* Bitter

310929. Col. No. 4673. Puente San Miguel, Tunari Range, above Cochabamba.

310930. Col. No. 4685. Puente San Miguel, Tunari Range, above Cochabamba.

310931 and 310932. *SOLANUM LEPTOPHYES* Bitter

310931. Col. No. 4909. "Pummila", near Sucre.

310932. Col. No. 5184. Vicinity of Potosi. Donated by Arturo Vidaurre.

310933. *SOLANUM SPARSIPILUM* (Bittre) Juz. & Buk.

Col. No. 4581. Cervecería Colon, Cochabamba.

310934. *SOLANUM TARIJENSE* Hawkes

Col. No. 4885. On Cochabamba-Sucre road, 28 km. from Sucre.

310935. *SOLANUM TORALAPANUM* Cardenas & Hawkes

Col. No. 5068. Hacienda Toralapa, along roadside, 75 km. south of Cochabamba on Cochabamba-Santa Cruz highway.

310936. *SOLANUM UREYI* Card.

Col. No. 4853. "Suncani", on road to Cuatro Cruces, 10 km. from Hacienda Sailapata, Ayopaya Province, Cochabamba Department.

310937 to 310959.

From Peru. Seeds collected by Donald Ugent, Department of Botany, University of Wisconsin, Madison, Wis. Numbered Jan. 14, 1966.

310937 to 310941. *SOLANUM CANASENSE* Hawkes Solanaceae.

310937. Col. No. 4056a. Road to Pisac, 4 km. from Cuzco.

310938. Col. No. 4130. "Grupo Arqueológico", Cuzco.

310939. Col. No. 4236a. "Grupo Arqueológico", Cuzco.

310940. Col. No. 4242. "Grupo Arqueológico", Cuzco.

310941. Col. No. 4243. "Grupo Arqueológico", Cuzco.

310942. *SOLANUM CHIQUIDENUM* Ochoa

Col. No. 5398. Granja Porcon, Cajamarca.

310937 to 310959—Continued

- 310943.** SOLANUM CHOMATOPHILUM Bitters
Col. No. 5416. Granja Porcon, Cajamarca.
- 310944 to 310947.** SOLANUM MARINASENSE Vargas
- 310944.** Col. No. 4399. Paucartambo.
- 310945.** Col. No. 4413a. Paucartambo.
- 310946.** Col. No. 4512. On Huambutio to Pisac road, 14 km. from Huambutio.
- 310947.** Col. No. 4513. On Huambutio to Pisac road, 14 km. from Huambutio.
- 310948.** SOLANUM AMBOSINUM Ochoa
Col. No. 4297. "Chacan", north of Cuzco.
- 310949 to 310954.** SOLANUM RAPHANIFOLIUM Cardenas & Hawkes
- 310949.** Col. No. 3538. Sacsayhuaman, Cuzco.
- 310950.** Col. No. 3563. Sacsayhuaman, Cuzco.
- 310951.** Col. No. 3935. Chincheros, Cuzco Department.
- 310952.** Col. No. 4127. "Grupo Arqueologico", Cuzco.
- 310953.** Col. No. 4229. Porroy, Cuzco Department.
- 310954.** Col. No. 4272. "Grupo Arqueologico", Cuzco.
- 310955 and 310956.** SOLANUM SOUKUPII Hawkes
- 310955.** Col. No. 4526. Puno. Along roadside.
- 310956.** Col. No. 4543. Puno. Along roadside.
- 310957 to 310959.** SOLANUM SPARSIPILUM (Bitter) Juz. & Buk.
- 310957.** Col. No. 904a. Urubamba. In cornfield.
- 310958.** Col. No. 905. In cabbage field, 58 km. between Urubamba and Calca.
- 310959.** Urubamba Growing in cornfield.

310960 to 310967.

From Mexico. Seeds collected by Donald Ugent, Department of Botany, University of Wisconsin, Madison, Wis. Numbered Jan. 14, 1966.

- 310960.** SOLANUM BULBOCASTANUM Dun. Solanaceae.
Col. No. 3057. San Felipe, North of Oaxaca.
- 310961 and 310962.** SOLANUM DEMISSUM Lindl.
- 310961.** Col. No. 1514. "Raices". Nevada de Toluca. Elevation 3,532 meters.
- 310962.** Col. No. 2448. "Raices". Nevada de Toluca. Elevation 3,352 meters.
- 310963.** SOLANUM POLYADENIUM Greenm.
Col. No. 1766. Mt. Punguato, Morelia. Elevation 200 meters.
- 310964.** SOLANUM STOLONIFERUM Schlecht. & Bouche
Col. No. 1288. Popocatepetl. Elevation 2,835 meters.
- 310965.** SOLANUM TUBEROSUM subsp. ANDIGENUM (Juz. & Buk.) Hawkes
Col. No. 1086. 'Mexicana'. Nevada de Toluca.
- 310966 and 310967.** SOLANUM VERRUCOSUM Schlecht.
- 310966.** Col. No. 1289. Popocatepetl. Elevation 2,838 meters.

310960 to 310967—Continued**310966 and 310967—Continued**

310967. Col. No. 1359. Mt. Malinche. Elevation 3,300 meters.

310968 and 310969.

From Ecuador. Seeds collected by Donald Ugent, Department of Botany, University of Wisconsin, Madison, Wis. Numbered Jan. 14, 1966.

310968. *SOLANUM BREVIFOLIUM* Humb. & Bonpl. ex Dunal Solanaceae.

Col. No. 5616. Valley of Lloa, near Quito.

310969. *SOLANUM CARIPENSE* Humb. & Bonpl. ex Dun.

Col. No. 5679. Agricultural Research Station "Santa Catalina", near Quito.

310970 to 310981.

From Bolivia. Seeds presented by G. E. Easton, Irrigation Experiment Station, Washington State University, Prosser, Wash. Seeds obtained from Sekundo Alandia, Servicio Agrícola Interamericano, Division de Investigaciones, La Paz. Numbered Jan. 14, 1966.

310970. *SOLANUM ACAULE* Bitter Solanaceae.

Alan 1.

310971 to 310973. *SOLANUM BERTHAULTII* Hawkes

310971. Alan 2.

310972. Alan 3.

310973. Alan 4.

310974 and 310975. *SOLANUM BOLIVIENSE* Dunal

310974. Alan 6.

310975. Alan 7.

310976. *SOLANUM INFUNDIBULIFORME* Phil.

Alan 8.

310977 and 310978. *SOLANUM MEGISTACROLOBUM* Bitt.

310977. Alan 9.

310978. Alan 10.

310979. *SOLANUM MICRODONTUM* Bitter

Alan 11.

310980. *SOLANUM STOLONIFERUM* Schlecht. & Bouche

Alan 12.

310981. *SOLANUM TARIJENSE* Hawkes

Alan 13.

310982 to 310985.

From Germany. Seeds collected by Hans Ross, Max Planck Institut für Züchtungsforschung, 5 Köln-Vogelsang. Collected in countries indicated. Numbered Jan. 14, 1966.

310982. *SOLANUM BREVICAULE* Bitter Solanaceae.

Col. No. EBS 2361. Bolivia.

310983. *SOLANUM COLOMBIANUM* Dunal

Col. No. EBS 2179. Colombia.

310982 to 310985—Continued

310984. *SOLANUM SPARSIPILUM* (Bitter) Juz. & Buk.

Col. No. EBS 2189. Bolivia. Resistant to some races of golden nematode.

310985. *SOLANUM LEPTOPHYES* Bitt.

Col. No. EBS 2079. Argentina.

310986 to 311002.

From Great Britain. Seeds collected by J. G. Hawkes, Department of Botany, University of Birmingham, Birmingham, England. Numbered Jan. 14, 1966.

310986 and 310987. *SOLANUM ACAULE* var. *ALBICANS* Ochoa Solanaceae.

310986. Col. No. 2427.

310987. Col. No. 2429.

310988. *SOLANUM CAJAMARCENSE* Ochoa

Col. No. 2436.

310989. *SOLANUM CHIQUIDENUM* Ochoa

Col. No. 2435.

310990 and 310991. *SOLANUM CHOMATOPHILUM* Bitters

310990. Col. No. 2433.

310991. Col. No. 2492.

310992. *SOLANUM JALCAE* Ochoa

Col. No. 2412.

310993. *SOLANUM LIGNICAULE* Vargas

Col. No. 2482.

310994. *SOLANUM MEDIANS* Bitt.

Col. No. 2463.

310995. *SOLANUM LOBBIANUM* f. *MULTIDISSECTUM* (Hawkes) Corr.

Col. No. 2469.

310996. *SOLANUM OCHRANTHUM* Humb. & Bonpl.

Col. No. 2445.

310997. *SOLANUM PIURAE* Bitter

Col. No. 2443.

310998 and 310999. *SOLANUM RAPHANIFOLIUM* Cardenas & Hawkes

310998. Col. No. 2470.

310999. Col. No. 2471a.

311000 and 31101. *SOLANUM SPARSIPILUM* (Bitter) Juz. & Buk.

311000. Col. No. 2477.

311001. Col. No. 2478.

311002. *SOLANUM TUQUERRENSE* Hawkes

Col. No. H. 703.

311003. *ARACHIS HYPOGAEA* L. Leguminosae.

Peanut.

From British Guiana. Seeds presented by Clarence London, South Mackenzie, Demerara River. Received Jan. 17, 1966.

311004 to 311090.

From Rumania. Seeds collected by Donald Stewart, University of Minnesota, St. Paul, Minn. Received Jan. 17, 1966.

311004 and 311005. *AGROPYRON CRISTATUM* (L.) Gaertn. Gramineae.
Crested wheatgrass.

311004. Brasov Experiment Station. Originally from Soviet Union.

311005. Turda Experiment Station.

311006 to 311010. *AGROSTIS ALBA* L. Gramineae. Redtop.

311006. Dobrogea Experiment Station.

311007. 'Lewowska'. Brasov Experiment Station. Originally from Poland.

311008. 'Magurele'. Brasov Experiment Station. Originally from Rumania.

311009. 'Wrana'. Brasov Experiment Station.

311010. Turda Experiment Station.

311011. *AGROSTIS TENUIS* Sibth. Colonial bentgrass.

Dobrogea Experiment Station.

311012 and 311013. *ALOPECURUS PRATENSIS* L. Gramineae.
Meadow foxtail.

311012. 'Estonskii'. Brasov Experiment Station. Originally from Soviet Union.

311013. Turda Experiment Station.

311014. *ANTHYLLIS VULNERARIA* L. Leguminosae. Kidneyvetch.

Brasov Experiment Station. Originally from Rumania.

311015 to 311017. *ARRHENATHERUM ELATIUS* (L.) Presl Gramineae.
Tall oatgrass.

311015. Dobrogea Experiment Station.

311016. 'Marsanskii 23'. Brasov Experiment Station.

311017. Turda Experiment Station.

311018. *AVENA STRUM PUBESCENS* (L.) Opiz Gramineae.

Dobrogea Experiment Station.

311019. *BRIZA MEDIA* L. Gramineae.

Dobrogea Experiment Station.

311020 to 311022. *BROMUS INERMIS* Leyss. Gramineae.
Smooth brome grass.

311020. 'Karmos'. Brasov Experiment Station.

311021. 'Marsanskii'. Brasov Experiment Station.

311022. Turda Experiment Station.

311023 and 311024. *BROMUS MOLLIS* L. Soft chessgrass.

311023. Dobrogea Experiment Station.

311024. Turda Experiment Station.

311025. *BROMUS TECTORUM* L. Cheatgrass.

Turda Experiment Station.

311026. *CALAMAGROSTIS ARUNDINACEA* (L.) Roth Gramineae.

Dobrogea Experiment Station.

311004 to 311090—Continued

311027. *CYNOSURUS CRISTATUS* L. Gramineae. **Crested dogtail.**
Dobrogea Experiment Station.
- 311028 to 311042. *DACTYLIS GLOMERATA* L. Gramineae. **Orchardgrass.**
311028. Dobrogea Experiment Station.
311029. 'Adefa III'. Brasov Experiment Station.
311030. 'Dorise'. Brasov Experiment Station.
311031. 'Aries'. Brasov Experiment Station. Originally from France.
311032. 'Chantemille'. Brasov Experiment Station.
311033. 'Chinook'. Brasov Experiment Station.
311034. 'Coxa'. Brasov Experiment Station.
311035. 'Daehnfeldt Hera III'. Brasov Experiment Station. Originally from Sweden.
311036. 'Daehnfeldt Phillax'. Brasov Experiment Station. Originally from Sweden.
311037. 'Heidemij'. Brasov Experiment Station.
311038. 'Lemba R.V.P.'. Brasov Experiment Station.
311039. 'Matterurtzer'. Brasov Experiment Station.
311040. 'Praireal'. Brasov Experiment Station. Originally from France.
311041. 'Taurus UCASET'. Brasov Experiment Station. Originally from France.
311042. Turda Experiment Station.
311043. *DESCHAMPSIA CAESPITOSA* (L.) Beauv. Gramineae.
Dobrogea Experiment Station.
311044. *FESTUCA ARUNDINACEA* Schreb. Gramineae. **Tall fescue.**
'Magurele'. Brasov Experiment Station. Originally from Rumania.
311045. *FESTUCA CAPILLATA* Lam. **Hair fescue.**
'Magurele'. Brasov Experiment Station. Originally from Rumania.
- 311046 to 311054. *FESTUCA ELATIOR* L.
311046. 'Magurele'. Brasov Experiment Station. Originally from Rumania.
311047. 'Manade'. Brasov Experiment Station. Originally from France.
311048. 'R.D.G.'. Brasov Experiment Station. Originally from Germany.
311049. 'Roznowska'. Brasov Experiment Station. Originally from Czechoslovakia.
311050. 'S-215'. Brasov Experiment Station. Originally from Great Britain.
311051. 'Sofia 9'. Brasov Experiment Station. Originally from Bulgaria.
311052. 'Svalöf late'. Brasov Experiment Station. Originally from Sweden.
311053. 'Tiganesti'. Brasov Experiment Station.
311054. Turda Experiment Station.

311004 to 311090—Continued

311055. *FESTUCA GIGANTEA* (L.) Vill. Great fescue.
Dobrogea Experiment Station.
- 311056 to 311063. *FESTUCA RUBRA* L. Red fescue.
311056. Dobrogea Experiment Station.
311057. 'Crint'. Brasov Experiment Station. Originally from Rumania.
311058. 'Fallax-Gilfrood'. Brasov Experiment Station.
311059. 'Lewocska'. Brasov Experiment Station. Originally from Poland.
311060. 'Olds'. Brasov Experiment Station.
311061. 'Roznowska'. Brasov Experiment Station. Originally from Czechoslovakia.
311062. 'Sioux'. Brasov Experiment Station.
311063. 'Taborska'. Brasov Experiment Station. Originally from Czechoslovakia.
311064. *FESTUCA* sp.
'OH'. Brasov Experiment Station. Originally from Oland, Sweden.
311065. *FESTUCA* sp.
Turda Experiment Station.
- 311066 and 311067. *HOLCUS LANATUS* L. Gramineae. Velvetgrass.
311066. Dobrogea Experiment Station.
311067. Turda Experiment Station.
311068. *LOLIUM MULTIFLORUM* Lam. Gramineae.
Turda Experiment Station.
- 311069 and 311070. *LINUM USITATISSIMUM* L. spp. *TRANSITORIUM* Vav et Ell. Linaceae.
311069. T.C.A. 77/53. Dobrogea Experiment Station.
311070. T.C.A. 32/53. Dobrogea Experiment Station.
- 311071 to 311075. *LOLIUM PERENNE* L. Gramineae. Perennial ryegrass.
311071. 'Doublet'. Brasov Experiment Station. Late hay type.
311072. 'Magurele'. Brasov Experiment Station. Originally from Rumania.
311073. 'R.V.P.'. Brasov Experiment Station. Pasture type.
311074. 'Scotia'. Brasov Experiment Station. Originally from Great Britain.
311075. Turda Experiment Station.
311076. *LUZULA ALBIDA* DC. Juncaceae.
Dobrogea Experiment Station.
311077. *MOLINIA CAERULEA* (L.) Moench Gramineae.
Dobrogea Experiment Station.
- 311078 to 311083. *PHLEUM PRATENSE* L. Gramineae.
311078. Dobrogea Experiment Station.
311079. 'S-48'. Brasov Experiment Station. Originally from Great Britain.
311080. 'Daeno III'. Brasov Experiment Station.

311004 to 311090—Continued**311078 to 311083—Continued**

311081. 'Magurele'. Brasov Experiment Station. Originally from Rumania.

311082. 'Pecora'. Brasov Experiment Station.

311083. Turda Experiment Station.

311084 to 311087. POA PRATENSIS L. Gramineae. Kentucky bluegrass.

311084. Dobrogea Experiment Station.

311085. 'Golf'. Brasov Experiment Station.

311086. 'OH'. Brasov Experiment Station. Originally from Oland, Sweden.

311087. Turda Experiment Station.

311088. STELLARIA GRAMINEA L. Caryophyllaceae.

Dobrogea Experiment Station.

311089. TRisetum FLAVESCENS (L.) Beauv. Gramineae.

'Goldhafer'. Brasov Experiment Station. Originally from Austria.

311090. TRisetum sp.

Dobrogea Experiment Station.

311091 to 311094. SACCHARUM (hybrid). Gramineae.

Sugarcane.

From the British West Indies. Cuttings presented by the Barbados Sugar Cane Variety Testing Station, Barbados. Received Jan. 17, 1966.

311091. B. 60125.

311093. B. 60297.

311092. B. 60191.

311094. B. 60321.

311095. PYRACANTHA (hybrid). Rosaceae.

Firethorn.

From Great Britain. Cuttings presented by John Waterer Sons & Crisp Limited, Twyford Berks, England. Received Jan. 17, 1966.

'Waterer's Orange'.

311096 and 311097.

From Republic of South Africa. Bulbs and seeds presented by Helena J. Herbst, Greyi Hospital, Pietermaritzburg, Natal. Received Jan. 17, 1966.

311096. CRINUM MACOWANII Baker Amaryllidaceae.

Stalks long, thick with many flowers; flowers large, white with pink stripes on outside. Blooms in spring and flowers for several months.

311097. GLADIOLUS CRASSIFOLIUS Baker Iridaceae.

Flat fields to North and West of Oribi Government village. Blooming period October to January. Height 5 feet, with nearly all flowers blooming at same time.

311098 and 311099. URENA LOBATA L. Malvaceae.

From Brazil. Seeds presented by the Division of Plant Introduction, Instituto Agronomico, Campinas, Sao Paulo. Received Jan. 18, 1966.

311098. Originally from Brazil.

311099. D.S. 15. Originally from Belgian Congo.

311100 to 311114.

From Guatemala. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 18, 1966.

311100 to 311114—Continued

311100. *ANNONA DIVERSIFOLIA* Safford Annonaceae. **Ilama.**

Col. No. 21393. El Rancho, Progreso District. Elevation 2,000 feet.

311101. *CAPSICUM* sp. Solanaceae.

Col. No. 20974. Salama, Baja Verapaz Department. Elevation 2,500 feet. Small bush with edible hot chili fruits.

311102 and 311103. *CUCURBITA* cf. *PEPO* L. Cucurbitaceae. **Pumpkin.**

311102. Col. No. 21434. 'Culabasa'. Market in Huehuetenango. Elevation 6,000 feet.

311103. Col. No. 21535. 'Culabasa'. Market in Huehuetenango. Elevation 6,000 feet.

311104. *DESMODIUM* sp. Leguminosae.

Col. No. 21360. Chimaltenango Valley. Elevation 5,500 feet. Decumbent spreading perennial, erect peduncles; flowers reddish purple.

311105. *DESMODIUM* sp. Leguminosae.

Col. No. 21365. Along road to Soncato, 25 miles east of Guatemala City. Elevation 2,600 feet. Perennial herb.

311106. *HIBISCUS ESCULENTUS* L. Malvaceae. **Okra.**

Col. No. 21388. 'Algalia'. Indian market in Antigua. Elevation 5,000 feet.

311107. *LENS CULINARIS* Medic. Leguminosae. **Lentil.**

Col. No. 21389. 'Lentoja'. Indian market in Antigua. Elevation 5,000 feet.

311108. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

Col. No. 21387. 'Linosa'. Indian market in Antigua. Elevation 5,000 feet.

311109 to 311111. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.

Tomato.

311109. Col. No. 21392. 'Tomate jocotillo'. Indian market Antigua. Elevation 5,000 feet. Fruits small, slender, pinkish.

311110. Col. No. 21395. 'Tomate ciruela'. Santa Maria de Jesus, Guatemala District. Elevation 6,400 feet. Fruits small, ovoid.

311111. Col. No. 21396. Santa Maria de Jesus, Guatemala District. Elevation 6,400 feet. Fruits depressed globular, ribbed, pale pink.

311112. *PISUM SATIVUM* L. Leguminosae. **Pea.**

Col. No. 21386. Indian market in Antigua. Elevation 5,000 feet. Round, smooth.

311113 and 311114. *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**

311113. Col. No. 21390. 'Ajonjoli'. Indian market in Antigua. Elevation 5,000 feet. Small, pale.

311114. Col. No. 21423. 'Ajonjoli'. Market in Quezaltenango. Small, very pale.

311115 to 311120.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 18, 1966.

311115 to 311118. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

Market in Tapechula, Chiapas. Elevation 500 feet.

311115 to 311120—Continued

311115 to 311118—Continued

311115. Col. No. 21352. Fruits small, depressed, round.
 311116. Col. No. 21353. Fruits small, ovoid, pointed tips.
 311117. Col. No. 21354. Fruits small, oval, red.
 311118. Col. No. 21355. Fruits small, pyriform, green to yellowish flush.
 311119 and 311120. *VIGNA SINENSIS* (Torner) Savi Leguminosae. **Cowpea.**

Market in Tapachula, Chiapas. Elevation 500 feet.

311119. Col. No. 21342. Small, tan to reddish.
 311120. Col. No. 21349. Small, reddish brown.

311121 to 311125.

From Honduras. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 18, 1966.

311121. *DESMODIUM* sp. Leguminosae.

Col. No. 21472. Comajagua Department, 7.5 miles south of Minas de Oro, in pasture. Elevation 1,700 feet. Small, slender herb.

311122. *DESMODIUM* sp. Leguminosae.

Col. No. 21473. Comajagua Department, 7.5 miles south of Minas de Oro, in pasture. Elevation 1,700 feet. Perennial herb, leaves green to purple.

311123 and 311124. *DOLICHOS LABLAB* L. Leguminosae. **Hyacinth-bean.**

311123. Col. No. 21465. Escuela Agricola Panamericana, Zamorano. Elevation 2,600 feet. Perennial bushy vine; leaves dark purple green; showy racemes of purple flowers and fruits.

311124. Col. No. 21471. 'Garbanzo'. Restaurant in Talanga. Elevation 2,500 feet.

311125. *VIGNA SINENSIS* (Torner) Savi Leguminosae. **Cowpea.**

Col. No. 21485. 'Carita'. Minas de Oro, Comajagua Department. Pale, almost white.

311126 to 311129.

From Nicaragua. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 18, 1966.

311126. *CAPSICUM* sp. Solanaceae.

Col. No. 21560. Market in Chinandega. Bush type.

311127. *DESMODIUM* sp. Leguminosae.

Col. No. 21586. Chontales Department, 6 miles northwest of Juigalpa. Perennial herb, flowers small, pink.

311128. *LEUCAENA LEUCOCEPHALA* (Lam.) de Wit Leguminosae. **Leadtree.**

Col. No. 21514. La Calera, Estacion Agricola Nacional, Managua. Elevation 150 feet. Tree, small, vigorous; bark light; flowers white.

311129. *LINUM USITATISSIMUM* L. Linaceae. **Flax.**

Col. No. 21622. 'Linasa'. Esteli, Esteli Department. Elevation 2,800 feet.

311130 to 311150. *DIANTHUS CARYOPHYLLUS* L. Caryophyllaceae.
Clove pink carnation.

From Great Britain. Seeds purchased from Thompson and Morgan Limited, Ipswich, England. Received Jan. 19, 1966.

311130. 1410. 'Camellia'. Flowered mixed.
 311131. 1414. 'Picotee'. Mixed.
 311132. 1415. 'Teicher's Strain'.
 311133. 1416. 'Enfant de Nice'. Striped.
 311134. 1417. 'Giant Chabaud'. Mixed.
 311135. 1418. 'Aurora'. Giant Chabaud.
 311136. 1419. 'Fire Queen'. Gaint Chabaud.
 311137. 1420. 'Legion D'Honneur'. Giant Chabaud.
 311138. 1421. 'Marie Chabaud'. Gaint Chabaud.
 311139. 1422. 'Orange Sherbert'. Giant Chabaud.
 311140. 1423. 'Princess Alice'. Giant Chabaud.
 311141. 1424. 'Rose Queen'. Giant Chabaud.
 311142. 1425. 'White Queen'. Giant Chabaud.
 311143. 1427. 'Grenadin'. Double mixed.
 311144. 1428. 'King of the Blacks'. Grenadin, double.
 311145. 1429. 'Rose Queen'. Grenadin, double.
 311146. 1430. 'Scarlet'. Grenadin, double.
 311147. 1431. 'Yellow'. Grenadin, double.
 311148. 1432. 'Malmaison'. Gaint-flowered mixed.
 311149. 1433. 'J. M. Bridgeford'. Malmaison.
 311150. 1435. 'Margarita'. Iron stemmed mixed.

311151 to 311154.

From Honduras. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 19, 1966.

311151. *PHASEOLUS* cf *STENOLOBUS* Standl. Leguminosae.
 Col. No. 20749. Copan, Copan Department. Elevation 1,800 feet. Perennial, climbing vine; pods long, straight, thin; flowers pale.
 311152. *PHASEOLUS VULGARIS* L. Leguminosae. Common bean.
 Col. No. 20797. Market in Totonicapan. Elevation 8,000 feet. Black, pole type.
 311153. (Undetermined.)
 Col. No. 20722. Coyoles, Yoro Department. Large perennial vine; pods large, thick.
 311154. (Undetermined.)
 Col. No. 20784. Along road to Santa Rosa de Copan 6 miles east of Cucuyagua. Elevation 2,600 feet. Perennial vine, large, coarse, climbing; leaves small; flowers purple; pods coarse, broad.

311155 to 311228.

From Guatemala. Seeds collected by H. S. Gentry, agricultural explorer, New Crops Research Division, Plant Industry Station, Beltsville, Md. Received Jan. 19, 1966.

311155 to 311228—Continued

311155. *DOLICHOS LABLAB* L. Leguminosae. **Hyacinth-bean.**
Col. No. 20960. 'Garbanzo'. Market in Chiquimula. Elevation 1,000 feet.
- 311156 and 311157. *PHASEOLUS CALCARATUS* Roxb. Leguminosae. **Rice bean.**
311156. Col. No. 20929. 'Arroz'. Market in Jalapa. Elevation 4,300 feet. Small, reddish brown, pole type.
311157. Col. No. 20965. 'Arroz'. Market in Zacapa. Elevation 600 feet. Small, reddish brown, hilum white, pole type.
- 311158 to 311220. *PHASEOLUS VULGARIS* L. Leguminosae. **Common bean.**
Santa Maria Cauque, 21.7 miles northwest of Guatemala City. Elevation 6,000 feet.
311158. Col. No. 20787. Small, erect bush; seeds long, pods short.
311159. Col. No. 20788. Pole type, snap, pink.
El Tejar, Chimaltenango Valley. Elevation 6,000 feet.
311160. Col. No. 20789. Seeds black, pods purple.
311161. Col. No. 20790. Small, seeds black, pods reddish mixed with purple; bush type.
311162. Col. No. 20791. Seeds black, pods purple brindled.
311163. Col. No. 20792. Small, seeds black, pods white; bush type.
311164. Col. No. 20794. Guisha Primera, along highway. Elevation 8,000 feet. Mixed lot.
311165. Col. No. 20796. 'Piloya'. Store in Nahuala. Elevation 7,500 feet. Large; pole type.
Market in Tonicapan. Elevation 8,000 feet.
311166. Col. No. 20798. Pole type.
311167. Col. No. 20799. Black, pole type.
311168. Col. No. 20801. 'Piloya'. Seeds reddish, pods coarse, pole type.
311169. Col. No. 20802. Pole type.
311170. Col. No. 20803. Small, black.
311171. Col. No. 20805. 'Piloya'. Large, reddish orange, pods coarse, pole type.
311172. Col. No. 20806. Small, white.
311173. Col. No. 20807. Small, black, bush type.
311174. Col. No. 20808. 'Piloya'. Large, orange red, pole type.
311175. Col. No. 20810. 'Piloya'. Large, mixed black and red, pole type.
311176. Col. No. 20809. 'Piloya'. Mixed sizes and colors, pole type.
Market in Chichicastenango, Quiche Department. Elevation 7,000 feet.
311177. Col. No. 20815. Small, white.
311178. Col. No. 20816. Large, reddish orange and speckled, pole type.
311179. Col. No. 20819. 'Piloya'. Reddish, pole type.
311180. Col. No. 20803. 'Piloya'. Black, pole type.
311181. Col. No. 20831. Uniform, full round, shiny, black.
311182. Col. No. 20832-A. 'Piloya'. Mixed colors and sizes.

311155 to 311228—Continued

311158 to 311220—Continued

311183. Col. No. 20834. 'Piloya'. Large, red spotted, pole type.
Market in Quezaltenango. Elevation 6,000 feet.
311184. Col. No. 20843. 'Piloya'. Large, reddish, pole type.
311185. Col. No. 20848. Large, shiny, black, some purples; pole type.
311186. Col. No. 20850. 'Piloya'. Large, red with white speckles, pole type.
311187. Col. No. 20852. Panajachel, Solola Department. Elevation 5,000 feet. 'Colorado'. Red, bush type.
311188. Col. No. 20860. Store in Tecpan, Chimaltenango Department. Elevation 6,500 feet. 'Piloya'. Large, pole type.
Market in Barberena, Santa Rosa Department. Elevation 3,000 feet.
311189. Col. No. 20876. 'Colorado'. Small, bright red, bush type.
311190. Col. No. 20881. Small, white, bush type.
311191. Col. No. 20896. Market in Cuilapa, Santa Rosa Department. Elevation 2,500 feet. Dull black, bush type.
311192. Col. No. 20900. Market in Jutiapa. Elevation 3,000 feet. Medium size, black, bush type.
Market in Jalapa. Elevation 4,300 feet.
311193. Col. No. 20914. Small, dark red mixed with other colors; bush type.
311194. Col. No. 20915. 'Juruna'. Large, mixed colors.
311195. Col. No. 20917. 'Pecho gordonisa'. Round, black and white, mixed with black, flat. Mixed with Col. No. 20917-A. (P.I. 311224).
311196. Col. No. 20918. 'Juruna'. Large, yellow to orange.
311197. Col. No. 20921. Small, shiny, black, pole type.
311198. Col. No. 20923. 'Curuna'. Large, yellow, mixed with black.
311199. Col. No. 20925. 'Curuna, Piloya'. Large, yellow.
311200. Col. No. 20926. 'Ojo de gato'. Gray striped with brown. Mixed.
311201. Col. No. 20928. 'Piloya'. Large, mixed, highly colored.
311202. Col. No. 20930. 'Curuna'. Large, thick, various colors.
Market in San Jeronimo, Bajo Verapaz Department.
311203. Col. No. 20984. 'Piloya'. Large, variegated, mostly black, pole type.
311204. Col. No. 20985. 'Piloya'. Large, variegated, pole type.
Market in Coban, Alta Verapaz Department. Elevation 4,300 feet.
311205. Col. No. 20988. 'Piloya'. Large, black, pole type.
311206. Col. No. 20990. 'Piloya'. Mixed sizes and colors.
311207. Col. No. 20991. 'Nung'. Large, highly colored.
311208. Col. No. 20994. 'Nung'. Mixed, mostly yellow, pole type.
311209. Col. No. 20997. 'Piloya'. Large, highly colored. Market in Carcha, Alta Verapaz Department. Elevation 4,300 feet.
311210. Col. No. 21003. Large, black, pole type.
311211. Col. No. 21008. 'Piloya'. Large, mixed colors.

311155 to 311228—Continued

311158 to 311220—Continued

311212. Col. No. 21009. Large, mixed colors.
 311213. Col. No. 21010. 'Piloya'. Large, mixed colors, pole type.
 Market in San Cristobal, Alta Verapaz Department. Elevation 4,500 feet.
 311214. Col. No. 21015. Large, black, pole type.
 311215. Col. No. 21018. 'Piloya'. Large, black, pole type.
 311216. Col. No. 21378. Market in Antigua. Elevation 5,000 feet.
 'Pillilo'. Large, round, dark reddish, pole type.
 Market in Totonicapan. Elevation 8,000 feet.
 311217. Col. No. 21400. 'Piloya'. Red with white flecks, pole type.
 311218. Col. No. 21402. 'Piloya'. Large, variegated, pole type.
 311219. Col. No. 21407. 'Piloya'. Uniform, red, late maturity, pole type.
 311220. Col. No. 21410. Market in Quezaltenango. Elevation 7,250 feet.
 'Piloya'. Black, early, pole type.

311221. PISUM SATIVUM L. Leguminosae. Pea.

Col. No. 20800. Market in Totonicapan. Elevation 8,000 feet.

311222 to 311228. VIGNA SINENSIS (Torner) Savi Leguminosae. Cowpea.

311222. Col. No. 20908. 'Pecho de Godornisa'. Valle Monjos, Jalapa Department. Elevation 3,500 feet. Mixed, black and white, pole type.

Market in Jalapa. Elevation 4,300 feet.

311223. Col. No. 20912. 'Pecho blanco'. Round, black and white.

311224. Col. No. 20917-A. 'Pecho Godornisa'. Round, black and white. Mixed with flat, black. See Col. No. 20917 (P.I. 311195).

311225. Col. No. 20964. Market in Chiquimula. Elevation 1,000 feet. Black, pole type.

311226. Col. No. 20970. Market in Zacapa. Elevation 600 feet. Black.

Market in Coban, Alta Verapaz Department. Elevation 4,300 feet.

311227. Col. No. 21000. Small, black.

311228. Col. No. 21002. Small, black.

311229. ZEA MAYS L. Gramineae. Corn.

From the United States. Seeds presented by E. Smith, Oljato Trading Post, Utah, thru D. C. Foley, Iowa State University, Ames, Iowa. Received Jan. 26, 1966.

A-656. Collected near Kayenta, Arizona. Purple flint. Said to have extensive root system and require little water.

311230 to 311248. ZEA MAYS L. Gramineae. Corn.

From the United States. Seeds presented by C. F. Genter, Virginia Polytechnic Institute, Blacksburg, Va. Received Jan. 26, 1966.

311230. A-666. 'Eureka'. Tall, late silage variety, white dent flint kernels.

311231. A-667. 'Copper Strawberry Corn'. Copper-yellow dent, 4- to 7-inch cob.

311232. A-668. 'White Dent'. Deep white kernel. Roasting ear.

311233. A-669. 'Yellow Sweepstakes'. Yellow dent.

311230 to 311248—Continued

311234. A-670. 'Oklahoma Silvermine'. Virginia selection. White dent, stalks to 10 feet.
311235. A-671. 'Tennessee Red Cob'. Virginia selection. Large white dent.
311236. A-672. 'Improved Leaming'. Ohio origin, yellow dent.
311237. A-673. 'Hickory King'. Small cob, large white kernels.
311238. A-674. 'Douthet's Yellow'. Yellow selection.
311239. A-675. 'Douthet's White'. Long white kernels, small red cob.
311240. A-676. 'Wood's Golden Prolific'. Jarvis origin. Prolific, large, deep golden kernels, small cob.
311241. A-677. 'Wood's Dixie'. Lathern Double type, white dent, milling.
311242. A-678. 'McNeill's Little Cob'. White kernel, very small white cob.
311243. A-679. 'Mexican June'. Mixed white and blue kernels, thick husk.
311244. A-680. 'Golden Dent'. Yellow kernels, red cob, long husk.
311245. A-681. 'Trucker's Favorite'. Southern roasting ear.
311246. A-682. 'Pamunkey'. Local Indian variety.
311247. A-683. 'Gibbs Special'. Collected near Farmville, Va. White.
311248. A-684. 'Burke's Garden White'. White dent.

311249 to 311255. ZEA MAYS L. Gramineae. Corn.

From the United States. Seeds presented by J. C. Eldredge, Iowa State University, Ames, Iowa. Received Jan. 26, 1966.

311249. A-693. 'Spanish'. Central Popcorn Company. Eight row white flint.
311250. A-694. 'White Rice'. White kernels and cob, 16 rows.
311251. A-695. 'White Hulless'. Matteson Farm, Ill. White kernels and cob, 20 to 36 rows.
311252. A-696. 'White Hulless'. McElvain Farm, Ill. White kernels and cob, 18 to 32 rows.
311253. A-697. 'White Hulless'. Keller Farm, Ill. White kernels and cob, 18 to 20 rows.
311254. A-698. 'Yellow Pearl'. Crackerjack Popcorn Company. Yellow kernel, white cob, 14 to 16 rows.
311255. A-699. 'Yellow Pearl'. McElvain Farm, Ill. Orange kernel, white cob, 18 to 22 rows.

311256 to 311260.

From the Philippines. Seeds collected by W. P. Bitters, University of California, Riverside, Calif. Received Jan. 26, 1966.

311256. CITRUS MEDICA var. SARCODACTYLIS Swingle Rutaceae.
Fingered citron.

From the Filipinas Gift Shop, Manila.

- 311257 to 311259. CITRUS RETICULATA Blanco Rutaceae. Mandarin orange.
311257. 'Keow wan'. Tangerine.
311258. 'Tien chieh.' Mandarin.
311259. 'Wase (early) satsuma'. Mandarin.

311256 to 311260—Continued

311260. *HESPERETHUSA CRENULATA* Roem. Rutaceae.

Received from the Filipinas Gift Shop, Manila, Philippines.

311261. *PHASEOLUS POLYSTACHIOS* L. Leguminosae.

From the United States. Seeds presented by the University of Florida, Gainesville, Fla. Received Jan. 28, 1966.

Collected from wild near Gainesville, Fla.

311262 to 311266. *ARACHIS HYPOGAEA* L. Leguminosae. **Peanut.**

From the Republic of South Africa. Seeds presented by J. Sellschop, Potchefstroom College of Agriculture through Plant Introduction Officer, Division of Seed Control, Department of Agriculture Technical Services, Pretoria. Received Jan. 28, 1966.

311262. 52.G.107 F₁ (Rustenburg × Hebbal × Barberton × Masambika).

311263. 64.G.195 (Senegal 48-15 × Natal Common).

311264. 64.G.202 (Mwitunde × Natal Common).

311265. 64.G.204 (Mwitunde × Natal Common Red).

311266. 64.G.208 (Natal Common × Kanyoma).

311267. *STYLOSANTHES GRACILIS* HBK. Leguminosae.

From Ceylon. Seeds presented by R. J. Johnson & Company, Colombo. Received Jan. 28, 1966.

Local strain used as cover crop.

311268 to 311271.

From Great Britain. Plants purchased from R. C. Notcutt Ltd., Woodbridge, Suffolk, England. Received Jan. 28, 1966.

311268 to 311270. *DIANTHUS CARYOPHYLLUS* L. Caryophyllaceae.

Clove pink carnation.

311268. 'Mrs. Sinkins'.

311269. 'Mrs. Sinkins Pink.'

311270. 'White Ladies'.

311271. *DIANTHUS* × *ALLWOODII* Hort.

'Ian'.

311272 to 311275. *PENNISETUM SPICATUM* (L.) Willd. Gramineae. **Pearl millet.**

From India. Seeds presented by K. O. Rachie, Rockefeller Foundation, New Delhi. Received Jan. 28, 1966.

Bajra selections.

311272. 23A × BIL-1 (Ludhiana Selection from T.55—commercial Punjab variety) II-11-9.

311273. BIL-3B (Ludhiana Selection from S.350—a variety from Punjab).

311274. Hybrid Bajra No. 1 (Tf 23A × BIL-3B) II-76-9.

311275. D.28 K 65 (D2 × IP81 F9—late inbred developed at Delhi).

311276. *ORYZA SATIVA* L. Gramineae.

Rice.

From the Philippines. Seeds presented by the International Rice Research Institute, Manila. Received Jan. 28, 1966.

IR9-46 (Peta × I-geo-tze).

- 311277 and 311278.** *ORYZA SATIVA* L. Gramineae. **Rice.**
 From Korea. Seeds presented by the Korean Consulate, Cairo, United Arab Republic, through Agricultural Attache, American Embassy, Cairo. Received Jan. 28, 1966.
- 311277.** Sample G. 180-day maturity.
- 311278.** Sample S. 210-day maturity.
- 311279.** *LYCOPERSICON ESCULENTUM* var. *CERASIFORME* (Dun.) A. Gray Solanaceae. **Tomato.**
 From Mexico. Seeds collected by O. F. Francke, Mexico 13, D. F. Received Jan. 28, 1966. Southern part of Papaloapam River Basin, vicinity of Casamahoapan, Veracruz.
- 311280.** *DIANTHUS CARYOPHYLLUS* L. Caryophyllaceae. **Clove pink carnation.**
 From Italy. Seeds presented by Giardine Botanico e Coloniale di Palermo, Palermo. Received Jan. 28, 1966.
- 311281.** *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**
 From Hong Kong. Seeds presented by Tien-Hsi Cheng, Pennsylvania State University, University Park, Pa. Received Jan. 28, 1966.
 Reported as originating in Mainland China.
- 311282.** *EUCHLAENA MEXICANA* Schrad. Gramineae. **Teosinte.**
 From Guatemala. Seeds presented by the Servicio Cooperativo Interamericano de Agricultura, La Aurora. Received Jan. 1960. Numbered Jan. 26, 1966.
 A-112. Plant 5 feet high; good vigor, uniform.
- 311283.** *EUCHLAENA MEXICANA* Schrad. Gramineae. **Teosinte.**
 From Guatemala. Seeds presented by the Iowa State University, Ames, Iowa. Received Feb. 1961. Numbered Jan. 26, 1966.
 A-105. Plant 6 feet high; good vigor, uniform.
- 311284.** *SPERGULA ARVENSIS* L. Caryophyllaceae. **Spurry.**
 From Minnesota. Seeds presented by the Department of Agronomy, Agricultural Experiment Station, St. Paul. Received Dec. 1962. Numbered Jan. 26, 1966.
 A-614. Height 6 feet; vigor good, uniform.
- 311285 to 311332.**
 From India. Seeds presented by the Lloyd Botanic Garden, Darjeeling, West Bengal. Received Feb. 3, 1966.
- 311285.** *ACER CAMPBELLII* Hook. f. & Thoms. Aceraceae.
- 311286.** *ACER HOOKERI* Miquel **Hooker maple.**
- 311287.** *ACER LAEVIGATUM* Wall.
- 311288.** *ACER OBLONGUM* Wall. ex DC.
- 311289.** *ACER* sp.
- 311290.** *ACER PALMATUM* f. *SANGUINEUM* (Carr.) Schwerin
- 311291.** *ACER PECTINATUM* Wall. ex Nicholson
- 311292.** *BUDDLEIA COLVILEI* Hook. f. Loganiaceae. **Butterflybush.**
- 311293.** *CLEMATIS GOURIANA* Roxb. Ranunculaceae.
- 311294.** *CLEMATIS MONTANA* Buch.-Ham. ex DC. **Anemone clematis.**

311285 to 311332—Continued

311295. ENKIANTHUS DEFLEXUS (Griff.) Schneider Ericaceae.
311296. GAULTHERIA HOOKERI C. B. Clarke Ericaceae.
311297. GAULTHERIA PYROLOIDES Hook. f. & Thoms.
311298. HYDRANGEA SERRATA (Thunb.) DC. Saxifragaceae.
311299. HYPERICUM HOOKERIANUM Wight & Arn. Guttiferae.
Hookers St.-Johns-wort.
311300. HYPERICUM PATULUM Thumb.
311301. ILEX INTRICATA Hook. f. Aquifoliaceae. Nepal holly.
311302. MECONOPSIS NAPAULENSIS DC. Papaveraceae.
311303. MECONOPSIS PANICULATA (Don) Prain
311304. MECONOPSIS WALLICHII Hook. Satinpoppy.
311305. POTENTILLA FRUTICOSA L. Rosaceae. Shrubby cinquefoil.
311306. POTENTILLA FULGENS Wall. ex Hook. Cinquefoil.
311307. POTENTILLA LEUCONATA D. Don
311308. POTENTILLA MOONIANA Wight
311309. POTENTILLA PEDUNCULARIS D. Don
311310. PRIMULA GERANIIFOLIA Hook. f. Primulaceae. Primrose.
311311. PRIMULA sp.
311312. PRIMULA RETICULATA Wall.
311313. PRIMULA ROTUNDIFOLIA Wall. ex Roxb.
311314. PRIMULA SAPPHIRINA Hook. f. & Thoms. ex Watt
311315. PRIMULA SIKKIMENSIS Hook. Sikkim primrose.
311316. PRIMULA STUARTII Wall. Primrose.
311317. RHODODENDRON ANTHOPOGON Don Ericaceae.
311318. RHODODENDRON ARBOREUM J. E. Smith. Tree rhododendron.
311319. RHODODENDRON BARBATUM Wall. ex Don
311320. RHODODENDRON sp.
311321. RHODODENDRON CAMPANULATUM D. Don
311322. RHODODENDRON FALCONERI Hook f.
311323. RHODODENDRON GRANDE Wight
311324. RHODODENDRON HODGSONII Hook. f.
311325. RHODODENDRON LANATUM Hook. f.
311326. RHODODENDRON LEPIDOTUM Wall. ex Don
311327. RHODODENDRON TRIFLORUM Hook. f.
311328. RHODODENDRON WIGHTII Hook. f.
311329. STYLOMECON sp. Papaveraceae.
311330. VIBURNUM CORIACEUM Blume Caprifoliaceae.
311331. VIBURNUM ERUBESCENS Wall. ex DC.
311332. VIBURNUM STELLULATUM Wall. ex DC.

311333 to 311499.

From Spain. Seeds presented by the Institute Forestal de Investigaciones y Experiencias, Madrid, via the U.S. Embassy, Rome, Italy. Public Law 480 Project E-25-FS-1. Received Feb. 4, 1966.

311333 to 311499—Continued

311333. *AGROPYRON INTERMEDIUM* (Host) Beauv. Gramineae.
Intermediate wheatgrass.
No. A-238. Cordoba.
- 311334 to 311339. *ANTHYLLIS CORNICINA* L. Leguminosae.
311334. No. A-85. Toledo.
311335. No. C-86. (A-242). Toledo.
311336. No. D-70. Ciudad Real.
311337. No. M-66. (A-319). Ciudad Real.
311338. No. M-109. (E-67). Toledo.
311339. No. M-154. Madrid.
- 311340 to 311344. *ANTHYLLIS LOTOIDES* L.
311340. No. C-111. Jaen. 311343. No. F-205. Caceres.
311341. No. D-44. Ciudad Real. 311344. No. M-157. Madrid.
311342. No. F-140. Badajoz.
- 311345 to 311358. *ANTHYLLIS VULNERARIA* L. Kidneyvetch.
311345. No. B-68. Segovia.
311346. No. B-83. Jaen.
311347. No. B-181. Cuenca.
311348. No. B-182. (C-142). Cuenca.
311349. No. C-48. Zaragoza.
311350. No. C-56. Burgos.
311351. No. C-142. Cuenca.
311352. No. D-73. Burgos.
311353. No. E-26. Burgos.
311354. No. E-63. Burgos.
311355. No. F-711. (E-63). Burgos.
311356. No. F-379. Jaen.
311357. No. M-75. (F-294). Cuenca.
311358. No. M-91. Ciudad Real.
311359. *ARRHENATHERUM ELATIUS* (L.) Presl Gramineae.
Tall oatgrass.
No. B-47. Guadalajara.
- 311360 to 311363. *ASTRAGALUS HAMOSUS* L. Leguminosae.
311360. No. E-13. Cuenca. 311362. No. F-611. Cuenca.
311361. No. F-176. Badajoz. 311363. No. F-648. Badajoz.
311364. *ASTRAGALUS MACRORRHIZUS* Cav.
No. C-30. Burgos.
- 311365 and 311366. *ASTRAGALUS MONSPESSULANUS* L.
311365. No. C-169. Guadalajara.
311366. No. F-178. Teruel.
- 311367 to 311369. *BRACHYPODIUM PHOENICOIDES* (L.) Roem. & Schult.
Gramineae. Falsebrome.
311367. No. A-218. Zaragoza.

311333 to 311499—Continued

311367 to 311369—Continued

311368. No. H-8. (B-37). Teruel.

311369. No. B-89. Jaen.

311370 and 311371. *BROMUS ERECTUS* Huds. Gramineae.

Meadow bromegrass.

311370. No. A-279. Guadalajara.

311371. No. G-61. Guadalajara.

311372 and 311373. *BROMUS MOLLIS* L.

Soft chessgrass.

311372. No. E-41. Palencia.

311373. No. B-167. Palencia.

311374 to 311402. *DACTYLIS GLOMERATA* L. Gramineae.

Orchardgrass.

311374. No. A-3. (B-3). Toledo.

311375. No. A-12. Zaragoza.

311376. No. A-23. (B-49). Toledo.

311377. No. A-41. Zaragoza.

311378. No. A-95. Caceres.

311379. No. A-100. Leon.

311380. No. A-118. (B-32). Toledo.

311381. No. A-122. Teruel.

311382. No. B-14. (B-64). Toledo.

311383. No. B-35. Zaragoza.

311384. No. B-64. (B-14). Toledo.

311385. No. C-49. Murcia.

311386. No. C-98. Murcia.

311387. No. D-65. Badajoz.

311388. No. D-67. Madrid.

311389. No. D-94. Albacete.

311390. No. E-12. Madrid.

311391. No. E-28. Murcia.

311392. No. E-31. Almeria.

311393. No. E-53. Cuenca.

311394. No. E-71. Palencia.

311395. No. E-76. Badajoz.

311396. No. E-97. Madrid.

311397. No. F-70. Cadiz.

311398. No. F-129. Avila.

311399. No. F-146. (A-274). Guadalajara.

311400. No. F-154. Ciudad Real.

311401. No. H-4. Leon.

311402. No. T-5. (T-6) (T-8). Burgos.

311403 to 311405. *FESTUCA OVINA* L. Gramineae.

Sheep fescue.

311403. No. B-12. Teruel.

311333 to 311499—Continued

311403 to 311405—Continued

311404. No. H-1. Zaragoza.

311405. No. T-16. Burgos.

311406 and 311407. *FESTUCA RUBRA* L.

Red fescue.

311406. No. B-53. Leon.

311407. No. T-4. Burgos.

311408. *HEDYSARUM HUMILE* L. ex Loeff. Leguminosae.

No. B-186. Toledo.

311409 to 311412. *HIPPOCREPIS COMMUTATA* Pau Leguminosae.

311409. No. A-267. Guadalajara. 311411. No. F-213. Toledo.

311410. No. A-334. Zaragoza. 311412. No. F-312. Cuenca.

311413 and 311414. *HIPPOCREPIS GLAUCA* Ten.

311413. No. C-221. Cuenca.

311414. No. F-363. Cuenca.

311415 and 311416. *HOLCUS LANATUS* L. Gramineae.

Velvetgrass.

311415. No. B-118. Badajoz.

311416. No. F-34. Caceres.

311417. *HORDEUM BULBOSUM* L. Gramineae.

Bulbous barley.

No. E-47. Cadiz.

311418 and 311419. *KOELERIA VALLESIANA* (Honck.) Bertol. in Roem. & Schult. Gramineae.

311418. No. E-8. Zaragoza.

311419. No. F-130. Teruel.

311420. *LOLIUM PERENNE* L. Gramineae.

Perennial ryegrass.

No. E-6. Cuenca.

311421 to 311424. *LOLIUM RIGIDUM* Gaud.

Wimmera ryegrass.

311421. No. A-11. Toledo.

311423. No. B-42. Toledo.

311422. No. A-189. Cadiz.

311424. No. E-99. Cuenca.

311425. *LOTUS ARENARIUS* Brot. Leguminosae.

No. C-22. Cadiz.

311426. *LOTUS CONIMBRICENSIS* Brot.

No. F-259. Badajoz.

311427. *LOTUS* aff. *DECUMBENS* Poir.

No. A-196. Jaen.

311428 and 311429. *LOTUS CRETICUS* L.

311428. No. F-77. Cadiz.

311429. No. F-274. Cadiz.

311430 and 311431. *MEDICAGO LUPULINA* L. Leguminosae.

Black medic.

311430. No. A-324. Segovia.

311431. No. F-250. Guadalajara.

311432 to 311446. *MEDICAGO ORBICULARIS* (L.) All.

Buttonclover.

311432. No. A-286. Cuenca.

311433. No. C-21. Ciudad Real.

311333 to 311499—Continued

311432 to 311446—Continued

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| 311434. No. C-65. Badajoz. | 311441. No. F-317. Badajoz. |
| 311435. No. C-87. Madrid. | 311442. No. G-11. Toledo. |
| 311436. No. C-159. Caceres. | 311443. No. G-74. Madrid. |
| 311437. No. C-295. Jaen. | 311444. No. G-77. Toledo. |
| 311438. No. D-80. Badajoz. | 311445. No. M-74. Ciudad Real. |
| 311439. No. E-9. Cuenca. | 311446. No. M-161. Madrid. |
| 311440. No. F-142. Badajoz. | |

311447 to 311463. *MEDICAGO SATIVA* L.

Alfalfa.

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| 311447. No. A-177. Cuenca. | 311456. No. E-62. Zaragoza. |
| 311448. No. A-200. Segovia. | 311457. No. E-100. Cuenca. |
| 311449. No. A-216. Burgos. | 311458. No. F-200. Burgos. |
| 311450. No. A-287. Burgos. | 311459. No. F-700. Burgos. |
| 311451. No. A-329. Cuenca. | 311460. No. F-712. Burgos. |
| 311452. No. C-201. Zaragoza. | 311461. No. G-64. Guadalajara. |
| 311453. No. D-78. Albacete. | 311462. No. M-95. Toledo. |
| 311454. No. E-50. Cuenca. | 311463. No. T-18. Badajoz. |
| 311455. No. E-51. Zaragoza. | |

311464 and 311465. *MEDICAGO TURBINATA* (L.) All.

311464. No. A-45. Badajoz.
311465. No. G-47. Ciudad Real.

311466. *ONOBRYCHIS ARGENTEA* Boiss. Leguminosae.
No. B-180. Toledo.311467 to 311471. *ONOBRYCHIS VICIFOLIA* Scop.

Sainfoin.

311467. No. B-184. Burgos.
311468. No. F-388. Albacete.
311469. No. A-344. Source not given.
311470. No. B-175. Burgos.
311471. No. B-179. Burgos.

311472 and 311473. *PHALARIS AQUATICA* L. Gramineae.

Large canarygrass.

311472. No. A-192. Badajoz.
311473. No. T-17. Burgos.

311474. *TETRAGONOLOBUS SILIQUOSUS* (L.) Roth Leguminosae.
No. C-281. Guadalajara.311475 to 311481. *TRIFOLIUM CHERLERI* L. Leguminosae.

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| 311475. No. C-158. Caceres. | 311479. No. F-665. Badajoz. |
| 311476. No. C-183. Toledo. | 311480. No. M-110. Toledo. |
| 311477. No. C-253. Jaen. | 311481. No. M-126. Caceres. |
| 311478. No. F-662. Badajoz. | |

311482 to 311487. *TRIFOLIUM HIRTUM* All.

Rose clover.

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| 311482. No. C-58. Badajoz. | 311483. No. F-515. Cordoba. |
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311333 to 311499—Continued**311482 to 311487—Continued**

311484. No. G-26. Madrid. 311486. No. M-156. Madrid.

311485. No. M-38. Madrid. 311487. No. T-21. Badajoz.

311488 and 311489. *TRIFOLIUM PRATENSE* L. Red clover.

311488. No. C-64. Burgos.

311489. No. C-208. Ciudad Real.

311490. *TRIFOLIUM REPENS* L. White clover.

No. F-664. Segovia.

311491 and 311492. *TRIFOLIUM PRATENSE* L. Red clover.

311491. No. F-708. Burgos.

311492. No. M-193. Burgos.

311493 to 311495. *TRIFOLIUM REPENS* L. White clover.

311493. No. C-217. Jaen.

311494. No. M-40. Madrid.

311495. No. M-59. Cadiz.

311496 to 311499. *TRIFOLIUM SUBTERRANEUM* L. Leguminosae.
Subterranean clover.

311496. No. C-141. Caceres.

311497. No. F-31. (F-374). Caceres.

311498. No. F-324. Ciudad Real.

311499. No. T-1. Badajoz.

311500. CAMELLIA JAPONICA L. Theaceae. Common camellia.From Australia. Scions presented by Theodore C. Ruckert, Myrtle Bank.
Received Feb. 8, 1966.

'Leviathan'. South Australia.

311501 to 311518.From Brazil. Seeds presented by the University of Arizona—U.S. Agency
for International Development Contract Team, Fortaleza, Ceara. Re-
ceived Feb. 8, 1966.

Grown in the Nursery at the Instituto of Zootecnia, University of Ceara.

311501 and 311502. *CAJANUS CAJAN* (L.) Millsp. Leguminosae.
Pigeon-pea.

311501. 'Guandu No. 1'.

311502. 'Guandu No. 2'.

311503 and 311504. *CANAVALIA ENSIFORMIS* (L.) DC. Leguminosae.
Jackbean.

311503. 'Fava de Boi'.

311504. 'Feijao de Porco Branco'.

311505. *CENTROSEMA PUBESCENS* Benth. Leguminosae.
'Jitirana'.311506. *CLITORIA TERNATEA* L. Leguminosae. Asian pigeonwings.
'Cunha No. 1'.311507. *DESMODIUM DISCOLOR* Vogel Leguminosae.
'Marmelada de Cavallo'.

311501 to 311518—Continued

- 311508 and 311509. *DOLICHOS LABLAB* L. Leguminosae. **Hyacinth-bean.**
 311508. 'Lab-lab Branca'.
 311509. 'Lab-lab Roxa'.
- 311510 and 311511. *GLYCINE JAVANICA* L. Leguminosae.
 311510. 'Soja Perene No. 2'.
 311511. 'Soja Perene No. 3'.
311512. *INDIGOFERA HIRSUTA* L. Leguminosae. **Hairy indigo.**
 'Anileira'.
311513. *LEUCAENA LEUCOCEPHALA* (Lam.) de Wit Leguminosae. **Leadtree.**
 'Leucena'.
311514. *MIMOSA CAESALPINIAEFOLIA* Benth. Leguminosae.
 'Sabia'.
311515. *PHASEOLUS ATROPURPUREUS* DC. Leguminosae.
 'Siratro'.
311516. *SESBANIA EXASPERATA* HBK. Leguminosae.
 'Canafistula de lagoa'.
311517. *STIZOLOBIUM ATERRIMUM* Piper & Tracy Leguminosae. **Velvetbean.**
 'Mucuna preta'.
311518. *TERAMNUS UNCINATUS* (L.) Swartz Leguminosae.
 'Amendoiu de veadó'.
- 311519. GOSSYPIUM GOSSYPIOIDES** (Ulbr.) Stand. **Malvaceae.**
 From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Feb. 8, 1966.
 Col. No. 21887. El Coyul, along Pan American highway. Elevation 3,000 feet. Shrub to 118 inches high. Leafy; petals light lavender without, deep purple within.
- 311520. VERNONIA ANTHELMINTICA** (L.) Willd. **Compositae.**
Ironweed.
 From West Pakistan. Seeds presented by E. Nasir, Gordon College Rawalpindi. Received Feb. 8, 1966.
 Market in Rawalpindi. Seeds from cultivated plants about 15 miles from Manserah, District Hazara. Elevation 3,000 feet.
- 311521. SORGHUM** sp. **Gramineae.**
 From Zambia. Seeds collected by W. L. Astle, Mochipapa Regional Experiment Station, Choma. Received Feb. 8, 1966.
 Collected in Luangwa Valley.
- 311522 to 311708. AVENA STERILIS** L. **Gramineae.**
Animated oats.
 From Israel. Seeds presented by the Faculty of Agriculture, The Hebrew University, Jerusalem, under Public Law 480 Project A10-CR-20. Received Nov. 1965. Numbered Feb. 8, 1966.
 Collected at Hadera, central coastal plain.

311522 to 311708—Continued

311522. No. D 11-70-21.

311523. No. D 11-70-22.

311524. No. D 11-71-25.

Collected at Eilaboon, lower Galilee.

311525. No. D 40-4.

311526. No. D 40-11.

311527. No. D 40-13.

311528. No. D 40-14.

311529. No. D 40-15.

311530. No. D 40-21.

311531. No. D 40-22.

Collected at Neshar, Mount Carmel.

311538. No. D 136-6.

311539. No. D 136-7.

311540. No. D 136-11.

311541. No. D 136-22.

Collected at Ein Dor, lower Galilee.

311546. No. D 143-1.

311547. No. D 143-4.

311548. No. D 143-5.

311549. No. D 143-6.

Collected at Maghar, eastern lower Galilee.

311553. No. 6-76-2-1.

311554. No. 6-76-2-2.

311555. No. 6-76-2-3.

311556. No. 6-76-2-4.

311557. No. 6-76-2-5.

311558. No. 6-76-3-1.

311559. No. 6-76-4-1.

311560. No. 6-76-4-2.

311561. No. 6-76-4-3.

311562. No. 6-76-4-4.

311563. No. 6-76-4-5.

311564. No. 6-76-4-6.

311565. No. 6-76-4-7.

311566. No. 6-76-4-8.

311567. No. 6-76-4-9.

Collected at I'billin, lower Galilee.

311582. No. 6-82-5-1.

311583. No. 6-82-5-2.

311584. No. 6-82-5-3.

311585. No. 6-82-5-4.

311532. No. D 40-23.

311533. No. D 40-24.

311534. No. D 40-31.

311535. No. D 40-32.

311536. No. D 40-33.

311537. No. D 40-35.

311542. No. D 136-24.

311543. No. D 136-31.

311544. No. D 136-33.

311545. No. D 136-35.

311550. No. D 143-23.

311551. No. D 143-31.

311552. No. D 143-32.

311568. No. 6-76-4-10.

311569. No. 6-76-5-1.

311570. No. 6-76-5-2.

311571. No. 6-76-5-3.

311572. No. 6-76-5-4.

311573. No. 6-76-5-5.

311574. No. 6-76-5-6.

311575. No. 6-76-5-7.

311576. No. 6-76-5-8.

311577. No. 6-76-5-9.

311578. No. 6-76-5-10.

311579. No. 6-76-5-12.

311580. No. 6-76-5-13.

311581. No. 6-76-5-15.

311586. No. 6-82-5-5.

311587. No. 6-82-5-6.

311588. No. 6-82-5-7.

311589. No. 6-82-5-23.

311522 to 311708—Continued

Collected at Ginnosar, Sea of Galilee.

311590. No. 6-89-3-3. 311592. No. 6-89-3-24.

311591. No. 6-89-3-23. 311593. No. 6-89-3-29.

Collected at Sha'ar HaAliyya, coast of Carmel.

311594. No. 6-90-3-2. 311597. No. 6-90-3-6.

311595. No. 6-90-3-4. 311598. No. 6-90-3-7.

311596. No. 6-90-3-5. 311599. No. 6-90-3-17.

Collected at Kefar Ata, Haifa Bay.

311600. No. 6-93-5-2-21.

311601. No. 6-93-5-2-22.

Collected at HaHoterim, coast of Carmel.

311602. No. 6-105-5-1. 311611. No. 6-105-5-17.

311603. No. 6-105-5-2. 311612. No. 6-105-5-21.

311604. No. 6-105-5-3. 311613. No. 6-105-5-22.

311605. No. 6-105-5-5. 311614. No. 6-105-5-23.

311606. No. 6-105-5-6. 311615. No. 6-105-5-24.

311607. No. 6-105-5-7. 311616. No. 6-105-5-34.

311608. No. 6-105-5-11. 311617. No. 6-105-5-35.

311609. No. 6-105-5-13. 311618. No. 6-105-5-4-21.

311610. No. 6-105-5-15. 311619. No. 6-105-5-4-25.

Collected at Neshet, Haifa Bay.

311620. No. 6-110-1-2.

311621. No. 6-110-1-6.

Collected at Bet-Lehem Hagelilit, lower Galilee.

311622. No. 6-112-1-5.

311623. No. 6-112-1-11.

311624. No. 6-112-1-15.

311625. No. 6-125-3-9. Collected at Atlit, coast of Carmel.

Collected at Nahalal, Valley of Esdraelon.

311626. No. 6-136-5-32.

311627. No. 6-136-5-33.

311628. No. 6-136-5-35.

Collected at Kerem Maharal, Mount Carmel.

311629. No. 6-153-4-1. 311632. No. 6-153-4-24.

311630. No. 6-153-4-6. 311633. No. 6-153-4-25.

311631. No. 6-153-4-11.

Collected at Tel Yoqne'am, Mount Carmel.

311634. No. 6-167-5-21. 311640. No. 6-168-1-21.

311635. No. 6-167-5-22. 311641. No. 6-168-1-22.

311636. No. 6-167-5-24. 311642. No. 6-168-1-26.

311637. No. 6-167-5-26. 311643. No. 6-168-1-33.

311638. No. 6-167-5-34. 311644. No. 6-168-1-1-32.

311639. No. 6-168-1-11.

311522 to 311708—Continued

Collected at En Dor, eastern lower Galilee.

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| 311645. No. 6-174-3-31. | 311652. No. 6-174-5-2. |
| 311646. No. 6-174-3-32. | 311653. No. 6-174-5-3. |
| 311647. No. 6-174-3-33. | 311654. No. 6-174-5-4. |
| 311648. No. 6-174-3-34. | 311655. No. 6-174-5-5. |
| 311649. No. 6-174-3-35. | 311656. No. 6-174-5-7. |
| 311650. No. 6-174-3-36. | 311657. No. 6-174-5-8. |
| 311651. No. 6-174-5-1. | 311658. No. 6-174-5-9. |

Collected at Hare Yavneel, eastern lower Galilee.

- 311659.** No. 6-176-1-22.
311660. No. 6-176-1-31.
311661. No. 6-176-1-33.
311662. No. 6-176-1-35.

Collected at South of Midrakh Oz, Plateau of Menashe.

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| 311663. No. 6-216-2-32. | 311666. No. 6-216-2-36. |
| 311664. No. 6-216-2-33. | 311667. No. 6-216-2-2-31. |
| 311665. No. 6-216-2-35. | 311668. No. 6-216-2-2-32. |

Collected at Giv'at Hayyim, central coastal plain.

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| 311669. No. 6-257-1-2. | 311676. No. 6-257-1-21. |
| 311670. No. 6-257-1-4. | 311677. No. 6-257-1-22. |
| 311671. No. 6-257-1-5. | 311678. No. 6-257-1-23. |
| 311672. No. 6-257-1-6. | 311679. No. 6-257-1-31. |
| 311673. No. 6-257-1-11. | 311680. No. 6-257-1-32. |
| 311674. No. 6-257-1-13. | 311681. No. 6-257-1-34. |
| 311675. No. 6-257-1-14. | 311682. No. 6-257-1-35. |

Collected at Beerotayim, central coastal plain.

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| 311683. No. 6-272-4-3. | 311686. No. 6-272-4-32. |
| 311684. No. 6-272-4-23. | 311687. No. 6-272-4-1-21. |
| 311685. No. 6-272-4-31. | |

Collected at Holot Yavne, central coastal plain.

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| 311688. No. 6-313-5-2. | 311697. No. 6-313-5-31. |
| 311689. No. 6-313-5-6. | 311698. No. 6-313-5-32. |
| 311690. No. 6-313-5-7. | 311699. No. 6-313-5-33. |
| 311691. No. 6-313-5-11. | 311700. No. 6-313-5-34. |
| 311692. No. 6-313-5-17. | 311701. No. 6-313-5-3-22. |
| 311693. No. 6-313-5-21. | 311702. No. 6-313-5-3-23. |
| 311694. No. 6-313-5-22. | 311703. No. 6-313-5-3-31. |
| 311695. No. 6-313-5-23. | 311704. No. 6-313-5-3-32. |
| 311696. No. 6-313-5-27. | 311705. No. 6-313-5-3-33. |

Collected at Tal-Shahar, Judean foothills.

- 311706.** No. 6-336-3-24.
311707. No. 6-336-3-32.
311708. No. 6-336-3-35.

311709. DIANTHUS CARYOPHYLLUS L. Caryophyllaceae.
Clove pink carnation.

From France. Seeds presented by Jardin Des Plantes, Universite de Montpellier, Montpellier. Received Feb. 10, 1966.

311710. ERIANTHUS GIGANTEUS (Walt.) Muhl. Gramineae.
Plume grass.

From the United States. Seeds collected by B. A. Belcher, Agricultural Research Service, Sugar Crops Field Station, Cario, Ga. Received Feb. 10, 1966.

Low inundated creek bottom along west side of Interstate Highway 75, 2 miles north of Cordele, Ga. exit.

311711 to 311713.

From Chile. Seeds collected from Juan Fernandez Islands by F. G. Meyer, National Arboretum, Washington, D. C. Received Feb. 10, 1966.

311711. BRASSICA NAPUS L. Cruciferae. Winter rape.

Col. No. 9559. Cerro Alto facing Porto Ingles, Mas Atierra. Elevation 1,000 feet. Biennial or perennial, 18 to 48 inches tall; flowers bright yellow; root napiform; moist banks at edge of woods at base of cliff; common.

311712. BROMUS FERNANDEZIANUS (R. A. Phil) Skotts. Gramineae.

Col. No. 9508. Along crest of ridge, Cerro Salsipuedes, Mas Atierra. Elevation 1,350 feet. Tufted plant with long clambering culms, forming a dense loose mat and growing up through shrubs of *Escallonia* and *Pernettya*, sometimes reclining over rocks on cliff faces.

311713. STIPA NEESIANA Trin. & Rupr. Gramineae.

Col. No. 9356. Between Quebrada de las Casas and Q. Vacas, Mas Afuera. Short rhizomes, 18 to 48 inches tall; on open slopes above the sea; common.

311714. PYRUS COMMUNIS L. Rosaceae.

From Italy. Budsticks presented by the Centro Miglicramento Piante Ortofrutticole, Firenze. Received Feb. 11, 1966.

'Eletta Morettini'.

311715 to 311718.

From Great Britain. Plants purchased from Hillier & Sons, Winchester, England. Received Feb. 15, 1966.

311715. CLEYERA sp. Theaceae.

F. 24578.

311716. EURYA JAPONICA Thunb. Theaceae.

F. 26156.

311717. ILEX SIKKIMENSIS Kurz Aquifoliaceae.

311718. LINDERA MEGAPHYLLA Hemsl. Lauraceae.

311719 to 311721.

From Brazil. Seeds presented by Instituto Agronomico de Estado de Sao Paulo, Campinas. Plants propagated by Oilseeds and Industrial Crops Research Branch, Beltsville, Md. Numbered Feb. 16, 1966.

311719 and 311720. ARACHIS GLABRATA Benth. Leguminosae.

311719. V. 350.

311720. V. 361.

311719 to 311721—Continued

311721. *ARACHIS* sp.

V. 360.

311722. *PUCCINELLIA CAPILLARIS* (Liljeb.) Jansen Gramineae.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Feb. 16, 1966.

C.P.I. 15034. Collected in Kaklic Village, Turkey in 1951.

311723 to 311754.

From Poland. Seeds presented by Institute of Soil Science and Plant Cultivation, Poznan, through R. L. Mitchell, Iowa State University, Ames, Iowa. Received Feb. 16, 1966.

311723. *BRASSICA CAMPESTRIS* L. Cruciferae. Summer turnip rape.
'Ludowy'.

311724 and 311725. *BRASSICA HIRTA* Moench White mustard.

311724. 'Borowska'.

311725. 'Nakielska'.

311726. *BRASSICA JUNCEA* (L.) Coss. Chinese mustard.

311727 to 311733. *BRASSICA NAPUS* L. Rape.

311727. 'Bronowski'.

311731. 'Mlochowski'.

311728. 'Cyzowskich'.

311732. 'Skrzeszowicki'.

311729. 'Gorzanski'.

311733. 'Warszawski'.

311730. 'Mazowiecki'.

311734. *BRASSICA NIGRA* (L.) Koch Black mustard.

311735 and 311736. *CAMELINA SATIVA* (L.) Crantz. Cruciferae.

311735. 'Borowska'.

311736. 'Przybrodzka'.

311737 and 311738. *CARTHAMUS TINCTORIUS* L. Compositae. Safflower.

311737. 'Borowski'.

311738. 'Mlochowski'.

311739. *CNICUS BENEDICTUS* L. Compositae. Blessed thistle.

311740. *CRAMBE ABYSSINICA* Hochst. ex R. E. Fries Cruciferae.

311741. *CUCURBITA PEPO* L. Cucurbitaceae. Pumpkin.

311742. *ERUCA SATIVA* Mill. Cruciferae.

311743. *HELIANTHUS ANNUUS* L. Compositae. Sunflower.

311744. *LALLEMANTIA IBERICA* (Bieb.) Fisch. & Mey. Labiatae.

311745. *LEPIDIUM SATIVUM* L. Cruciferae. Garden cress.

311746 and 311747. *LINUM USITATISSIMUM* L. Linaceae. Flax.

311746. 'Kotowiecki'.

311747. LCSD-200.

311748. *MADIA SATIVA* Molina Compositae. Tarweed.

311749 to 311751. *PAPAVER SOMNIFERUM* L. Papaveraceae. Opium poppy.

311749. 'Bialy Pulawski'.

311750. 'Niebieski'.

311723 to 311754—Continued**311749 to 311751—Continued**

311751. 'Pulawski Niebieski'.

311752. *PERILLA FRUTESCENS* (L.) Britton Labiatae. **Green perilla.**311753 and 311754. *RAPHANUS SATIVUS* L. Cruciferae. **Radish.**

311753. 'Baszta'.

311754. 'Borowska'.

311755 to 311758. PUNICA GRANATUM L. Punicaceae. Pomegranate.

From Israel. Cuttings presented by the National and University Institute of Agriculture, Plant Introduction Service, Rehovoth. Received Feb. 17, 1966.

311755. 'Black Mallisi'. 311757. 'Red Mallisi'.

311756. 'Green Mallisi'. 311758. 'Shirabi'.

311759 to 311767.

From Mexico. Seeds collected by W. H. Cross, Boll Weevil Research Laboratory, State College, Miss. Received Feb. 17, 1966.

311759 to 311763. GOSSYPIUM DAVIDSONII Kellogg Malvaceae.

Baja California Territorio Sur.

311759. Col. No. 9. South of La Paz 9 miles on Todos Santos Road.

311760. Col. No. 10. Rancho San Pedro just south of Todos Santos Road.

311761. Col. No. 11-12. South of Punta Pescadero 28 miles on La Paz-San Lucas Road.

311762. Col. No. 14. North of San Lucas 5.4 miles on La Paz Road.

311763. Col. No. 19. Southeast of San Bartolo 6.9 miles on Los Barriles Road.

311764 and 311765. GOSSYPIUM HARKNESSII T. S. Brandeg.

Baja California Territorio Sur.

311764. Col. No. 22. Highway at Km. 33-34 west of La Paz.

311765. Col. No. 25. North of Loreto 4.7 to 8.3 miles on Mulege Road.

311766 and 311767. GOSSYPIUM THURBERI Todaro

Sonora.

311766. Col. No. 3. Km. 2345-6 on highway south of Casita.

311767. Col. No. 4. Km. 2335 on highway north of Imuris.

311768 to 311771.

From Switzerland. Seeds presented by H. Correvon and Fils, Chene-Bourg. Received Feb. 18, 1966.

311768. *ALYSSUM SPINOSUM* L. Cruciferae.311769. *CYCLAMEN ATKINSII* T. Moore Primulaceae.311770. *CYCLAMEN EUROPAEUM* L. **European cyclamen.**311771. *CYCLAMEN NEAPOLITANUM* Ten.**311772 and 311773.**

From Israel. Seeds presented by the Volcani Institute of Agricultural Research, Rehovoth. Received Feb. 21, 1966.

311772 and 311773—Continued311772. *BALSAMOCITRUS DAWEI* Stapf Rutaceae.311773. *CITRUS SINENSIS* (L.) Osbeck Rutaceae. Sweet orange.
'Shamouti'.**311774 to 311778.**

From Germany. Cuttings presented by the Landes-Lehr-und Versuchsanstalt für Wein und Gartenbau, Postfach. Received Feb. 23, 1966.

311774 to 311777. *PRUNUS AVIUM* L. Rosaceae. Sweet cherry.

311774. 'Haumuller Mitteldicke'.

311775. 'Napoleons-Kirsche'.

311776. 'Schneiders spate rote Knorpelkirsche'.

311777. 'Werdersche Braune'. (Suskirschenedelreiser)

311778. *PRUNUS CERASIFERA* Ehrh.

'Myrobalana Pfalzer Type'.

311779. PHASEOLUS VULGARIS L. Leguminosae. **Common bean.**

From Nicaragua. Seed collected in 1965 by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Feb. 23, 1966.

Col. No. 21648. 'Frijol chile'. Somoto. Elevation 2,400 feet. Dark red, variable; bush type.

311780 to 311785. PHASEOLUS VULGARIS L. Leguminosae.
Common bean.

From Honduras. Seeds collected in 1965 by H. S. Gentry, agricultural explorer, New Crops Research Branch, Plant Industry Station, Beltsville, Md. Received Feb. 23, 1966.

311780. Col. No. 21675. 'Frijol negro'. Market in Comayagua. Small, rounded, black.

Market in Sabana Grande, Morazan Department. Elevation 3,000 feet.

311781. Col. No. 21702. 'Frijol chile'. Small, red with color variants.

311782. Col. No. 21703. 'Frijol rojo'. Variable, red; bush type.

311783. Col. No. 21704. 'Frijol chile'. Small, red with color variants; bush type.

311784. Col. No. 21705. 'Frijol liberal'. Morazan Department, 13 miles east of Pespire along highway to Tegue. Elevation 1,300 feet. Small, pods white, or red, or purplish; seeds small, red, shiny; bush type. 40 days maturity.

311785. Col. No. 21932. 'Frijol rico'. 'Rico'. Escuela Agricola Pan Americana, Zamorano. Selected at Turrialba, Costa Rica. Bush vigorous, stems thick, strong; seeds black. Notable disease resistance.

311786 to 311794. PHASEOLUS VULGARIS L. Leguminosae.
Common bean.

From El Salvador. Seeds collected in 1965 by H.S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Feb. 23, 1966.

Near Zapotitan. Elevation 1,500 feet.

311786. Col. No. 21452. 'Frijol tineco colorado'. Elongate, red; pole type. Angular leaf spot present.

311786 to 311794—Continued

311787. Col. No. 21453. 'Frijol tineco negro'. Dark brown to black; pole type. Angular leaf spot all through field.
311788. Col. No. 21454. 'Frijol tineco negro'. Pods long, seeds black.
311789. Col. No. 21455. 'Frijol cuarantino'. Bush type. 40 days maturity. Market in Santa Ana. Elevation 2,000 feet.
311790. Col. No. 21457. 'Frijol tineco negro'. Small, shiny black; pole type.
311791. Col. No. 21458. 'Tineco chico colorado'. Small reddish brown to pink; pole type.
311792. Col. No. 21459. 'Frijol mono'. Small, dull black; pole type.
311793. Col. No. 21461. 'Frijol blanco gordo'. Uniform white; pole type.
311794. Col. No. 21462. 'Tineco rojo'. Small, red to brown; pole type.

311795 to 311893.

From Guatemala. Seeds collected in 1965 by H.S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Feb. 23, 1966.

311795. *PHASEOLUS LUNATUS* L. Leguminosae. **Lima bean.**
Col. No. 21448. 'Frijol curona'. Market in Jutiapa. Elevation 3,500 feet. Flat, black; with white eye.
- 311796 to 311893. *PHASEOLUS VULGARIS* L. **Common bean.**
Chimaltenango Valley. Elevation 5,500 feet.
311796. Col. No. 21361. 'Frijol blanco'. White; bush type. Plants uniform, healthy, with good set of pods.
311797. Col. No. 21362. 'Frijol negro'. Small, uniform, black; bush type.
311798. Col. No. 21363. 'Frijol negro'. Pods dark purple; seeds black. Market in Jutiapa. Elevation 3,500 feet.
311799. Col. No. 21442. 'Frijol negro del snelo'. Small, dull black; bush type.
311800. Col. No. 21443. 'Frijol nylon'. Small, black; bush type.
311801. Col. No. 21444. 'Frijol retinto'. Small, dull red, bush type.
311802. Col. No. 21445. 'Frijol blanco'. Small, white, bush type. Planted in May.
311803. Col. No. 21446. 'Frijol blanco'. White, large full seeds; bush type.
311804. Col. No. 21447. 'Frijol colorado'. Small, slender, red; bush type.
311805. Col. No. 21448A. 'Frijol negro'. Small, black; bush type.
311806. Col. No. 21449. 'Frijol negro del suelo'. Small, black; poorly filled; bush type.
311807. Col. No. 21450. 'Frijol colorado obscura'. Mixed. Small, dark red to brown; bush type.
Market in Progreso. Elevation 1,200 feet.
311808. Col. No. 21713. 'Frijol negro'. Black; bush type.
311809. Col. No. 21715. 'Frijol negro'. From new crop. August to November.

311795 to 311893—Continued**311796 to 311894—Continued**

311810. Col. No. 21716. 'Frijol blanco del suelo'. Mixed sizes; bush type.
311811. Col. No. 21717. 'Negro de suelo'. Black; bush type.
El Rancho, Progreso Department. Elevation 1,100 feet.
311812. Col. No. 21718. 'Frijol negro'. Black; pole type.
311813. Col. No. 12719. 'Frijol negro del suelo'. Small, black; bush type.
Store in San Jeronimo, Baja Verapaz Department. Elevation 3,000 feet.
311814. Col. No. 21721. 'Frijol negro'. Mixed sizes; black.
311815. Col. No. 21722. 'Negro del suelo'. Black bush type.
Salama, Baja Verapaz Department. Elevation 2,800 feet.
311816. Col. No. 21723. 'Negro del suelo'. Uniform; black.
311817. Col. No. 21724. 'Negro del suelo'. Small, black; bush type.
311818. Col. No. 21725. 'Mostecillo' or 'Siete sopas'. Very small; shiny, black.
Tactic, Alta Verapaz Department. Elevation 4,200 feet.
311819. Col. No. 21727. 'Piloy'. Large; variegated; pole type.
311820. Col. No. 21728. 'Frijol negro'. Black; bush type.
311821. Col. No. 21729. 'Negro del suelo'. Black; bush type.
311822. Col. No. 21730. 'Negro del suelo'. Santa Cruz, Alta Verapaz Department. Elevation 4,000 feet. Black; bush type
Coban, Alta Verapaz Department. Elevation 4,000 feet.
311823. Col. No. 21732. 'Frijol colorado'. Pale red; bush type.
311824. Col. No. 21733. 'Frijol colorado'. Red; bush type.
311825. Col. No. 21734. 'Frijol colorado'. Red; bush type.
311826. Col. No. 21735. 'Piloy'. Large; variegated.
311827. Col. No. 21736. 'Piloy'. Variegated; pole type.
311828. Col. No. 21737. 'Frijol negro'. Mixed sizes; black, dull.
311829. Col. No. 21738. 'Frijol blanco'. Uniform; white.
311830. Col. No. 21739. 'Negro de bara'. Shiny, black; pole type.
311831. Col. No. 21740. 'Frijol amarillo'. Uniform, depressed hilum; light yellow.
San Cristobal, Alta Verapaz Department. Elevation 4,000 feet.
311832. Col. No. 21743. 'Frijol blanco'. Mixed sizes, some very small; white.
311833. Col. No. 21744. 'Pilicu'. Large, light flecked orange colored; pole type.
311834. Col. No. 21745. 'Pajcha'. Dark, dull purple.
311835. Col. No. 21747. 'Negro del suelo'. Black; bush type.
Santa Elena, Alta Verapaz Department. Elevation 3,000 feet.
311836. Col. No. 21751. 'Frijol negro de mata'. Black; bush type.
Near Uspantan, Quiche Department. Elevation 4,000 feet.
311837. Col. No. 21752. 'Frijol negro de bara'. Pods large, purple; seeds black; pole type.

311795 to 311893—Continued

311796 to 311894—Continued

311838. Col. No. 21753. 'Frijol blanco del suelo'. Uniform, well filled, white; bush type.
Market in Chicaman, Quiche Department. Elevation 4,000 feet.
311839. Col. No. 21754. Black; bush type.
311840. Col. No. 21755. 'Negro del suelo'. Small, black; bush type.
311841. Col. No. 21756. Uniform, black with very white eye; bush type.
Market in Quiche. Elevation 6,000 feet.
311842. Col. No. 21757. 'Negro del suelo'. Uniform, black; bush type.
311843. Col. No. 21758. 'Frijol de gato'. Large, oval, variegate.
311844. Col. No. 21759. 'Frijol blanco'. Large, well rounded, white.
311845. Col. No. 21760. 'Frijol del suelo'. Black; bush type.
311846. Col. No. 21762. 'Frijol negro'. Uniform, shiny, black; pole type.
Market in Chichicastenango, Quiche Department. Elevation 6,500 feet.
311847. Col. No. 21766. 'Poleu'. Large, bright orange brown, speckled; pole type.
311848. Col. No. 21767. 'Negro de guia'. Uniform, shiny, black, small eye; pole type.
311849. Col. No. 21768. 'Negro del suelo'. Uniform, dusty black; bush type.
311850. Col. No. 21769. 'Pileua'. Large, speckled, reddish orange.
311851. Col. No. 21771. 'Negro de guia'. Well rounded, shiny, black; pole type.
311852. Col. No. 21772. 'Negro del suelo'. Black; bush type.
311853. Col. No. 21773. 'Colorado del suelo'. Uniform, red; bush type.
311854. Col. No. 21774. 'Colorado chico'. Mixed, small, rounded, red; bush type.
311855. Col. No. 21774A.
311856. Col. No. 21775. 'Negro del suelo'. Uniform, black; bush type.
311857. Col. No. 21776. 'Blanco del suelo'. White; pole type.
311858. Col. No. 21777. 'Colorado del suelo'. Light and dark red; bush type.
311859. Col. No. 21778. 'Piloy negro'. Large, black, some speckled; pole type.
311860. Col. No. 21779. 'Frijol colorado'. Long, dark red.
311861. Col. No. 21780. 'Frijol del gato'. Black and gray pinto bean mixed with whites and blacks.
311862. Col. No. 21781. 'Negro de milpa'. Rounded, waxy black pole type.
311863. Col. No. 21782. 'Blanco del milpa'. White; pole type.
311864. Col. No. 21783. 'Negro del surco'. Uniform, black; bush type.
311865. Col. No. 21784. 'Frijol blanco'. Sizes vary; white.
311866. Col. No. 21785. 'Negro del milpa'. Well rounded, shiny black; pole type.
311867. Col. No. 21786. 'Negro de surco'. Long, dull black; bush type.

311795 to 311893—Continued**311796 to 311894—Continued**

311868. Col. No. 21787. 'Colorado del surco'. Small, dark red; bush type.
311869. Col. No. 21788. 'Negro de milpo'. Waxy black; pole type.
311870. Col. No. 21789. 'Negro del surco'. Black; bush type.
Market in Amatitlan. Elevation 3,000 feet.
311871. Col. No. 21791. 'Negro del suelo'. Black; bush type.
311872. Col. No. 21792. 'Negro del suelo'. Black; bush type.
311873. Col. No. 21793. 'Frijol colorado'. Red; bush type.
311874. Col. No. 21794. 'Blanco del suelo'. White; bush type.
311875. Col. No. 21795. 'Colorado del suelo'. Small, red; bush type.
311876. Col. No. 21796. 'Frijol colorado'. Rather elongate dark red; bush type.
311877. Col. No. 21797. 'Negro del suelo'. Black; bush type.
311878. Col. No. 21798. 'Frijol colorado'. Variable, small, red; bush type.
311879. Col. No. 21799. 'Piloy'. Large, multi-colored; pole type.
311880. Col. No. 21800. 'Piloy'. Large, varicolored; pole type.
Santa Maria Jesus, Sacatepequez Department. Elevation 6,000 feet.
311881. Col. No. 21801. 'Negro del suelo'. Black; bush type.
Along road to Huehuetenango, 21 miles north of San Cristobal road fork.
Elevation 8,500 feet.
311882. Col. No. 21808. 'Piloy'. Mixed sizes. Variegated.
Market in Huehuetenango. Elevation 6,200 feet.
311883. Col. No. 21807. Small, uniform, black; bush type.
311884. Col. No. 21809. 'Frijol colorado'. Small, shiny red; bush type.
311885. Col. No. 21810. 'Frijol blanco'. White; bush type.
311886. Col. No. 21812. 'Negro matiado'. Uniform, black; bush type.
311887. Col. No. 21813. 'Frijol colorado'. Small, uniform, red; bush type.
311888. Col. No. 21814. 'Frijol negro de mata'. Small, uniform, black; bush type.
311889. Col. No. 21815. 'Frijol de mata'. Small, uniform, black; bush type.
311890. Col. No. 21816. 'Frijol blanco'. Small, uniform, white; bush type.
311891. Col. No. 21817. Black; bush type.
311892. Col. No. 21818. 'Frijol blanco'. White; bush type.
311893. Col. No. 21819. 'Frijol de mata'. Bright black with white; bush type.

311894 to 312098. PHASEOLUS VULGARIS L. Leguminosae.**Common bean.**

From Mexico. Seeds collected in 1965 by H.S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Feb. 24, 1966.

311894 to 312098—Continued

311894. Col. No. 21202. 'Frijol garapata'. El Plumo, Caborca District, Sonora. Pinto bean grown in desert valleys during summer rains.

311895. Col. No. 21208. 'Frijol azufrado'. San Bernardo, Rio Mayo, Sonora. Elevation 1,400 feet. Small, full, light colored.

Market in Alamos, Sonora.

311896. Col. No. 21213. 'Azufrado del rio'. Small, pale yellow.

311897. Col. No. 21214. 'Blanco del rio'. Very small, white.

311898. Col. No. 21215. 'Azufrado de la sierra'. Mixed, pale yellow to pink.

Ixtlan del Rio, Nayarit. Elevation 4,000 feet.

311899. Col. No. 21218. 'Frijol azufrado'. Small, pale yellow.

311900. Col. No. 21219. 'Frijol azufrado'. Thick, blocky.

Market in Atotonilco, Jalisco. Elevation 5,000 feet.

311901. Col. No. 21221. 'Frijol sarco'. Thick, round, light tan.

311902. Col. No. 21222. 'Frijol borrego'. Spotted.

311903. Col. No. 21223. 'Frijol garbancillo'. Mixed; common.

311904. Col. No. 21224. 'Frijol morada del agua'. Lavender.

311905. Col. No. 21225. 'Frijol garbanza'. Mixed sizes, pale buff.

311906. Col. No. 21226. 'Frijol americano'. Mixed, large, light colored.

311907. Col. No. 21227. 'Frijol sarco'. Uniform, round, light colored.

Market in Penjamo, Guanajuato. Elevation 5,000 feet.

311908. Col. No. 21228. 'Frijol borrego'. Pinto type.

311909. Col. No. 21230. 'Frijoles revuelta'. Mixture.

311910. Col. No. 21231. 'Frijol se quite (hambre)'. Small, uniform, dun colored.

311911. Col. No. 21232. 'Frijol morado'. Uniform, round, purple.

311912. Col. No. 21233. 'Frijol cacahuete'. Widely planted.

311913. Col. No. 21234. 'Frijol apetito'. Nearly quadrate, plump, buff colored.

311914. Col. No. 21235. 'Frijol garbancillo'. Full, pale green.

311915. Col. No. 21236. 'Frijol garapato'. Round, full, brown, glossy.

311916. Col. No. 21237. 'Frijol cuarenteno'. Long, narrow, light tan.

311917. Col. No. 21238. 'Frijol flor de Mayo'. Pink and white mottled.

311918. Col. No. 21239. 'Frijol garbancillo'. Full, greenish yellow.

311919. Col. No. 21240. 'Frijol canario'. Yellow.

Market in Tehuacan, Puebla. Elevation 5,000 feet.

311920. Col. No. 21242. 'Ayocote'. Large, black, white and purple.

311921. Col. No. 21243. 'Frijol amarillo'. Bright yellow.

311922. Col. No. 21244. 'Frijol pinto'. Small, mixed colors.

311923. Col. No. 21245. 'Frijol negro'. Small with small hilum; black.

311924. Col. No. 21274. 'Frijol tinto'. Mixture.

311925. Col. No. 21275. 'Flor de Mayo'. Speckled, pink.

311926. Col. No. 21276. 'Frijol amarillo'. Uniform, full, tan yellow.

311894 to 312098—Continued

311927. Col. No. 21277. 'Frijol garavato'. Uniform, long black seeds; pole type.
311928. Col. No. 21279. 'Frijol bayo'. Large, blocky, pale pink.
Market in Ajalpan, Puebla. Elevation 5,000 feet.
311929. Col. No. 21286. 'Frijol tinto'. Mixed.
311930. Col. No. 21287. Uniform, well rounded, brown.
Market in Cordoba, Veracruz.
311931. Col. No. 21251. 'Frijol aluvia'. Rather full, elongate, white.
Market in Mendoza, Veracruz.
311932. Col. No. 21252. 'Frijol abolado'. Uniform, shiny, black, with small eye.
311933. Col. No. 21253. 'Frijol charro'. Large, bluff.
311934. Col. No. 21254. 'Frijol garbancillo'. Small, uniform, yellow.
311935. Col. No. 21255. 'Frijol blanco'. Small, white.
311936. Col. No. 21256. 'Frijol tinto'. Mixed; various colors and sizes.
311937. Col. No. 21257. 'Frijol baraleno'. Uniform, dark gray mottled.
311938. Col. No. 21258. 'Frijol baralobo'. Uniform, round, light brown.
311939. Col. No. 21259. 'Ayocote'. Large, varicolored; purple, lavender, spotted; pole type.
311940. Col. No. 21260. 'Frijol aribenyo'. Small, bright black.
311941. Col. No. 21261. 'Frijol abolado'. Uniform, small, shiny black.
311942. Col. No. 21262. 'Frijol tinto'. Small, mixed colors and forms.
311943. Col. No. 21263. 'Frijol ojo de lievre'. Uniform, yellowish brown with variegated markings.
311944. Col. No. 21264. 'Frijol de riego'. Small, black.
311945. Col. No. 21265. 'Ojo de lievre'. Uniform, yellowish-brown variegated.
Market in Orizaba, Veracruz.
311946. Col. No. 21266. 'Frijol baralena'. Uniform, maculated gray.
311947. Col. No. 21267. 'Frijol abolado'. Uniform, large, full, black.
311948. Col. No. 21268. 'Frijol arriaga'. Uniform, small, dull black.
311949. Col. No. 21269. 'Frijol mantequilla'. Uniform, small, roundish, buff colored.
311950. Col. No. 21270. 'Ayacote'. Uniform, large, black.
311951. Col. No. 21271. 'Frijol abolado'. Uniform, small, dull black.
Market in Cordoba, Veracruz.
311952. Col. No. 21272. 'Bayo' and 'Baralina'. Uniform, maculated gray.
311953. Col. No. 21273. 'Ayocote'. Large, black.
Market in Huajuapán, Oaxaca. Elevation 5,200 feet.
311954. Col. No. 21293. Elongate, thin, mostly yellow but mixed with other colors.
311955. Col. No. 21294. 'Frijol de tierra'. Uniform, small, black.
311956. Col. No. 21295. 'Frijol criolla'. Uniform, small, black.
311957. Col. No. 21296. 'Frijol bayo'. Uniform, well-rounded, buff.

311894 to 312098—Continued

311958. Col. No. 21297. 'Frijol colorado'. Mixed, dark red.
311959. Col. No. 21298. 'Bayo de Tlalpan'. Pale buff.
- Market in Oaxaca, Oaxaca. Elevation 5,000 feet.
311960. Col. No. 21301. 'Frijol Mixteca'. Uniform, small, black; bush type.
311961. Col. No. 21302. 'Frijol pinero'. Small, black; bush type.
311962. Col. No. 21303. 'Frijol canario'. Uniform, elongate, pale yellowish.
311963. Col. No. 21304. 'Frijol aluvia grande'. Uniform, medium size, white.
311964. Col. No. 21305. 'Frijol alubia Mixteca'. Uniform, very small, white.
311965. Col. No. 21306. 'Frijol colorado Mixteca'. Uniform, dark red.
311966. Col. No. 21307. 'Frijol negro grueso'. Uniform, shiny black.
311967. Col. No. 21308. 'Frijol santanero'. Uniform, small, shiny black. "el mejor".
311968. Col. No. 21309. 'Aluvia de Ocatlan'. Uniform, small, white.
311969. Col. No. 21310. 'Frijol colorado'. Red; bush type.
311970. Col. No. 21311. 'Frijol bayo'. Uniform, longish, pale yellow. "Canario".
311971. Col. No. 21312. 'Blanco grueso'. Uniform, full, medium sized, white.
311972. Col. No. 21313. 'Frijol cuarenteno'. Small, blocky, full, pink.
311973. Col. No. 21314. 'Frijol nigra'. Uniform, small, black.
311974. Col. No. 21315. 'Frijol delgado'. Uniform, small, black; bush type.
311975. Col. No. 21316. 'Frijol ayacateco'. Small, shiny black; bush type.
311976. Col. No. 21317. 'Frijol amarillo'. Uniform, blocky, yellowish.
311977. Col. No. 21318. 'Ayocote'. Uniform, large, dark gray.
311978. Col. No. 21319. 'Colorado criollo'. Small, uniform, bright red.
311979. Col. No. 21320. 'Frijol aluvia'. Small, white.
- Market in Ixtlan de Juarez, Oaxaca.
311980. Col. No. 21321. 'Frijol'. Small, black.
- Market in Comitán, Chiapas. Elevation 6,000 feet.
311981. Col. No. 21822. 'Botin'. Large, mostly lavender, pole type.
311982. Col. No. 21827. 'Brijol enredo'. Small, shiny, pale lavender; pole type.
311983. Col. No. 21828. 'Frijol rojo de mata'. Uniform, small, red; bush type.
311984. Col. No. 21829. 'Frijol bayo'. Uniform, large, long, pale yellow; bush type.
311985. Col. No. 21830. 'Botil'. Large, purple; pole type.
311986. Col. No. 21831. 'Frijol blanco de mata'. Mixed sizes, white; bush type.
311987. Col. No. 21832. 'Negro de mata'. Uniform, small, ovoid, black with white eye; bush type.

311894 to 312098—Continued

311888. Col. No. 21833. 'Blanco de guilla'. Large, well filled, white; pole type.
311889. Col. No. 21834. 'Negro del suelo'. Uniform, small, black with good luster; bush type.
311990. Col. No. 21836. 'Frijol colorado'. Small, light red; bush type.
311991. Col. No. 21839. 'Negro del suelo'. Small, bright black with conspicuous small white eye; bush type.
- Teopisca. Elevation 6,500 feet. Collected at market in Comitán, Chiapas.
311992. Col. No. 21820. 'Frijol enredo'. Black with segregates of white and lavender; pole type.
311993. Col. No. 21821. Variegated pinto mixed with solid colors.
311994. Col. No. 21823. Mixed colors, black to pintos.
311995. Col. No. 21824. 'Frijol del gato'. Full, pinto or variegated brownish, mixed with blacks and plain browns.
311996. Col. No. 21825. 'Frijol amarillo enredo'. Full, angular, yellow; pole type.
311997. Col. No. 21826. 'Frijol rojo del suelo'. Pale red; bush type.
311998. Col. No. 21835. 'Colorado de Teopisca'. Well rounded, short, red mixed with whites and pintos.
311999. Col. No. 21837. 'Frijol colorado'. Mixed solid red and mottled; bush type.
312000. Col. No. 21838. Mixed black and white; bush type.
312001. Col. No. 21842. Mixed colors.
312002. Col. No. 21843. 'Frijol enreda de gatillo'. Variegated pinto; pole type.
312003. Col. No. 21844. Mixed but mostly thick, brown.
312004. Col. No. 21845. Long, mottled gray.
- Uncana. Collected at market in Comitán, Chiapas.
312005. Col. No. 21840. Waxy black mixed with cream color.
312006. Col. No. 21841. Very small, red; bush type.
- Market in San Cristóbal las Casas, Chiapas. Elevation 7,000 feet.
312007. Col. No. 21848. 'Negro de mata'. Small, black; bush type.
312008. Col. No. 21850. 'Frijol de guía'. Red; pole type.
312009. Col. No. 21854. 'Botín'. Large, various colors; pole type.
312010. Col. No. 21856. 'Frijol bayito'. Uniform, pinto, black stripes on gray.
312011. Col. No. 21858. 'Frijol bolito'. Sample from Sinacantla. Mixed colors; pole type.
312012. Col. No. 21861. 'Frijol mantequillo'. Sample from Campo Grande. Variable, thick, rounded, dun colored.
312013. Col. No. 21863. Sample from Huiscán. Large, various shades of red; pole type.
312014. Col. No. 21864. 'Frijol vega de mata'. Sample from San Pedro Niche. Small, pink and buff; bush type.
312015. Col. No. 21865. 'Frijol jolotón'. Sample from Campo Grande. Full, rounded, tan.

311894 to 312098—Continued

312016. Col. No. 21866. 'Negro de guia'. Sample from elsewhere. Uniform, well filled, waxy, shiny black; pole type.

Teopisca. Elevation 6,500 feet. Collected at market in San Cristobal las Casas, Chiapas.

312017. Col. No. 21849. 'Frijol bayito'. Small, gray with black stripes.

312018. Col. No. 21851. 'Frijol negro bolito'. Round, shiny black; possibly pole type.

312019. Col. No. 21852. 'Frijol colorado'. Small, well rounded, red with small white eye; bush type.

312020. Col. No. 21853. 'Frijol agua de lion'. Uniform, large bright black.

312021. Col. No. 21855. 'Frijol boca dito'. Well filled, shiny, all colors.

312022. Col. No. 21857. 'Frijol lluvia'. White.

312023. Col. No. 21859. 'Frijol de bara'. Dull red; pole type.

312024. Col. No. 21860. 'Frijol bolito'. Fat, blocky, tan.

Villa Flores. Collected at market in Tuxtla Gutierrez, Chiapas.

312025. Col. No. 21868. 'Frijol colorado'. Uniform, well filled, red; bush type.

312026. Col. No. 21869. 'Frijol blanco'. Large, white.

312027. Col. No. 21870. 'Frijol blanco'. Small, white; probably bush type.

312028. Col. No. 21872. 'Frijol negro de mata'. Small, black.

312029. Col. No. 21874. 'Frijol negro de mata'. Small, black; bush type.

312030. Col. No. 21878. 'Frijol colorado de mata'. Oblong, well filled, light red; bush type.

312031. Col. No. 21879. 'Frijol negro de mata'. Uniform, black; bush type.

312032. Col. No. 21881. 'Frijol negro de mata'. Uniform, ovoid, well filled, black; bush type.

Market in Tuxtla Gutierrez, Chiapas.

312033. Col. No. 21875. 'Frijol negro'. Tustepequez. Small, black; bush type.

San Cristobal las Casas, Chiapas. Elevation 7,000 feet. Collected at market in Tuxtla Gutierrez.

312034. Col. No. 21882. 'Frijol colorado'. Pale red; probably bush type.

312035. Col. No. 21883. 'Botiles'. Large, pink to red; pole type.

El Coyul, along Pan American highway, Oaxaca. Elevation 3,000 feet.

312036. Col. No. 21888. 'Frijol negro'. Small, black; bush type.

Market in Tehuantepec, Oaxaca.

312037. Col. No. 21890. Very small, black; bush type.

312038. Col. No. 21891. 'Frijol blanco delgado'. Very small, white; bush type.

San Miguel. Collected at market in Tehuantepec, Oaxaca.

312039. Col. No. 21892. White.

312040. Col. No. 21898. 'Frijol negro'. Small, black, bush type.

Arriaga, Chiapas. Collected at market in Tehuantepec, Oaxaca.

312041. Col. No. 21893. 'Frijol negro'. Various sizes, black.

311894 to 312098—Continued

312042. Col. No. 21894. 'Frijol negro'. Black.
312043. Col. No. 21895. Large, well rounded, black; bush type.
Oaxaca. Collected at market in Tehuantepec, Oaxaca.
312044. Col. No. 21896. Very small, black; bush type.
312045. Col. No. 21897. 'Frijol bayo'. Large, angular, buff.
Mitla, Oaxaca. Elevation 5,000 feet.
312046. Col. 21899. 'Frijol delgado'. Small, black; bush type.
312047. Col. No. 21900. 'Frijol grueso'. Large, angular, black; probably pole type.
Suchilquetango. Collected at Etna, Valley of Oaxaca. Elevation 5,000 feet.
312048. Col. No. 21905. 'Frijol delgado'. Small, black; bush type.
312049. Col. No. 21906. 'Frijol blanco'. Very small, white.
312050. Col. No. 21907. 'Frijol negro'. Very small, black; bush type.
Santla. Collected at Etna, Valley of Oaxaca.
312051. Col. No. 21908. 'Frijol chivo'. Large, black; pole type.
Etna, Valley of Oaxaca. Elevation 5,000 feet.
312052. Col. No. 21909. 'Frijol colorado'. Mixture, pink and red; bush type.
Aluapan. Collected at Etna, Valley of Oaxaca.
312053. Col. No. 21970. 'Frijol blanco'. Very small, white. Carbonera, along Pan American highway, Oaxaca. Elevation 7,000 feet.
312054. Col. No. 21911. 'Frijol negro delgado'. Very small, black, bush type.
312055. Col. No. 21912. 'Frijol blanco'. Very small, white; bush type.
Puebla. Collected at Huajuapán, Oaxaca.
312056. Col. No. 21913. 'Frijol amarillo'. Large, flat, yellow.
312057. Col. No. 21914. 'Frijol canario'. Long, pale yellowish.
312058. Col. No. 21915. 'Frijol bayo'. Large, blocky, buff.
312059. Col. No. 21920. 'Frijol bayo'. Large, angular, pale.
312060. Col. No. 21926. 'Ojo de lievre'. Tan with brown stripes.
312061. Col. No. 21928. 'Frijol garbancillo'. Small, rounded, pale yellowish.
Huajuapán, Oaxaca. Elevation 5,000 feet.
312062. Col. No. 21916. 'Frijol negro'. Shiny black; bush type.
312063. Col. No. 21917. 'Frijol de milpa'. Seeds white, red, and black; pole type.
312064. Col. No. 21921. 'Frijol de mata'. Small, black; bush type.
312065. Col. No. 21922. 'Frijol de milpa'. Various colors; pole type.
Hard.
312066. Col. No. 21923. 'Frijol negro de milpa'. Black; pole type.
312067. Col. No. 21924. 'Frijol colorado de milpa'. Red; pole type.
312068. Col. No. 21925. 'Frijol colorado'. Red; pole type.
312069. Col. No. 21927. 'Frijol de milpa'. Mixed colors; pole type.
Palmito, Sinaloa, Mazatlan-Durango Highway. Elevation 5,000 feet.

311894 to 312098—Continued

312070. Col. No. 21929. 'Frijol jarocho'. Small; pole type.
Market in Mexico City, D.F.
312071. Col. No. 21934. 'Frijol chilares'. Large, angular, buff.
312072. Col. No. 21935. 'Frijol Veracruz'. Small, black.
312073. Col. No. 21936. 'Frijol cacahuatate bola'. Well-rounded pinto.
312074. Col. No. 21937. 'Frijol bayo gordo'. Large, pink.
312075. Col. No. 21938. 'Frijol aluvia'. White.
312076. Col. No. 21939. 'Ayocote'. Large, purple.
312077. Col. No. 21940. 'Frijol Quereteno'. Black.
312078. Col. No. 21941. 'Frijol Puebla'. Well-rounded, black; pole type.
312079. Col. No. 21942. 'Frijol canario'. Slender, yellowish.
312080. Col. No. 21943. 'Frijol aluvia gordo'. Large, white.
312081. Col. No. 21944. 'Frijol morado'. Well rounded, purple.
312082. Col. No. 21945. 'Frijol garbanallo'. Small, pale yellow.
312083. Col. No. 21946. 'Frijol flor de Mayo'. Pink mottled; bush type.
312084. Col. No. 21947. 'Frijol rosita'. Small, lavender.
312085. Col. No. 21948. 'Frijol cacahuatate'. Large, long; pole type.
312086. Col. No. 21949. 'Frijol blanco de Oaxaca'. Small, white; bush type.
312087. Col. No. 21950. 'Frijol rosa'. Pink mottled.
Rio Mayo coastal lowlands, Sonora.
312088. Col. No. 21951. 'Frijol de milpillas'. Small, yellowish.
312089. Col. No. 21952. 'Frijol Nayarit'. Small, well-rounded, yellowish.
312090. Col. No. 21953. 'Frijol mantequilla'. Pale striped, yellowish.
312091. Col. No. 21954. Pale yellowish with veiny seed coat.
312092. Col. No. 21955. 'Frijol garrapato'. Large pinto.
312093. Col. No. 21957. 'Frijol asufrado del Yaqui'. Small veiny yellow.
312094. Col. No. 21958. 'Pinto del Yaqui'. Large pinto.
312095. Col. No. 21959. 'Frijol asufrado del Mayo'. Small pinto.
312096. Col. No. 21960. 'Frijol azufrado bolito'. Small, veiny, rather round, greenish yellow.
312097. Col. No. 21961. 'Frijol bayo'. Veiny, pale yellow.
312098. Col. No. 21976. Mixture, pale yellow and pink, veiny; bush type.

312099 to 312112.

From India. Seeds presented by Lloyd Botanic Garden, Darjeeling, West Bengal. Received Feb. 28, 1966.

312099. *ALLIUM VICTORIALIS* L. Liliaceae.
312100. *ALLIUM WALLICHII* Kunth
312101. *ANAPHALIS CONTORTA* (Don) Hook. f. Compositae.
312102. *ANAPHALIS TRIPLINERVIS* Sims ex C.B. Clarke.
312103. *CORYDALIS CHAEROPHYLLA* DC. Papaveraceae.
312104. *DIOSCOREA DELTOIDEA* Wall. Dioscoreaceae.
312105. *GERANIUM NEPALENSE* Sweet Geraniaceae.

312099 to 312112—Continued

312106. SCHISANDRA GRANDIFLORA (Wall.) Hook. f. & Thoms. Magnoliaceae.
312107. SOLANUM CAPSICASTRUM Link ex Schauer Solanaceae.
312108. SOLANUM KHASIANUM C.B. Clarke
312109. SOLANUM MACRODON Wall. ex Nees
312110. SOLANUM NIGRUM L.
312111. SOLANUM VERBASCIFOLIUM L. Nightshade.
312112. TERMINALIA CHEBULA Retz. Combretaceae.

312113 to 312117. TRITICUM AESTIVUM L. Gramineae.

From the Republic of South Africa. Seeds presented by V.D. Wasserman, University of Stellenbosch through Division of Seed Control, Dept. of Agricultural Technical Services, Pretoria. Received Feb. 28, 1966.

Maturity classification based on southeast Cape Province.

312113. 'Adeste'. ((Gabo-Quaderna) Wisconsin 245) × ((Mentana-Kenya) Supremo). 175 days maturity; fair straw strength. Rust resistance: moderately resistant to Race 21; very susceptible to Race 34; moderately resistant to Race 279.
312114. 'Heemraad'. Koalisie × Kenya Farmer. 170 days maturity; good straw strength. Rust resistance: susceptible to Races 21 and 34; slightly susceptible to Race 279.
312115. 'Kwarta'. ((Gabo-Quaderna) Wisconsin 245) × ((Mentana-Kenya) Supremo). 175 days maturity; fair straw strength. Rust resistance: susceptible to Races 21 and 34; moderately resistant to Race 279.
312116. 'Rheebok'. ((Gabo × Quaderna) Kenya Farmer) × Gabo. 169 days maturity; fair straw strength. Rust resistance: susceptible to Race 21; very susceptible to Races 34 and 279.
312117. 'Skemer'. ((Mentana-Kenya) Supremo) × Florence-Aurora. 163 days maturity; fair straw strength. Rust resistance: slightly susceptible to Race 21; susceptible to Race 34; slightly susceptible to Race 279.

312118. LEUCAENA LEUCOCEPHALA (Lam.) de Wit Leguminosae. Leadtree.

From the Virgin Islands. Seeds presented by Virgin Islands Agricultural Program, Kingshill, St. Croix. Received Feb. 28, 1966.

C.P.I. 18623. Australian records indicate this to be Hawaiian type.

312119. LEUCAENA STENOCARPA Urb. Leguminosae.

From Mexico. Seeds collected in 1962 by H.S. Gentry and A.S. Barclay, agricultural explorers, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered Feb. 28, 1966.

Col. No. 20459. West of Rio Verde 18 miles, along road to San Luis Potosi. Shrub or small tree with spreading crown, seeding freely.

312120 and 312121.

From Mexico. Seeds collected in 1965 by A. J. Sharp, University of Tennessee, Knoxville, Tenn. Numbered Feb. 28, 1966.

312120. IPOMOEA sp. Convolvulaceae.

Above Tuxtepec, Oaxaca, in Sierra Juarez. Morning-glory seed.

312121. PHASEOLUS sp. Leguminosae.

Rancho del Cielo above Gomez Farias, Tamualipas.

312122. PHASEOLUS ANGUSTIFOLIUS Roxb. Leguminosae.

From El Salvador. Seeds collected in 1965 by H.S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received March 1, 1966.

Col. No. 21460. 'Frijol blanco dulce'. Market in Santa Ana. Elevation 2,000 feet. Small, white.

312123. PHASEOLUS ANISOTRICHUS Schlecht. Leguminosae.

From Honduras. Seeds collected in 1965 by H.S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received March 1, 1966.

Col. No. 21466. Along road to Zamorano 12 km. east of Tegucigalpa. Elevation 3,750 feet. Perennial, twining vine, with thickened succulent roots; flowers light purple with pale greenish keel.

312124 to 312140.

From Guatemala. Seeds collected in 1965 by H.S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received March 1, 1966.

312124. BRASSICA CAMPESTRIS L. Cruciferae. Summer turnip rape.

Col. No. 21391. 'Mostasa de criolla'. Market in Antigua. Elevation 5,000 feet.

312125. CUCURBITA MAXIMA Duchesne Cucurbitaceae. Squash.

Col. No. 21741. 'Ayote'. Coban, Alta Verapaz. Elevation 4,000 feet.

312126. CUCURBITA MOSCHATA Duchesne ex Poir Cushaw.

Col. No. 21451. 'Pipitoria'. Market in Jutiapa. Elevation 3,500 feet.

312127. CUCURBITA PEPO L. Pumpkin.

Col. No. 21763. 'Ayote'. Market in Quiche. Elevation 6,000 feet.

312128. CYPHOMANDRA BETACEA (Cav.) Sendt. Solanaceae. Tree-tomato.

Col. No. 21805. 'Tomate pepino'. Salama, Baja Verapaz. Elevation 2,800 feet. From trees growing at Purula.

312129. DESMODIUM sp. Leguminosae.

Col. No. 21720. Mountain between Los Tablones and San Jeronimo, Baja Verapaz. Long straggling herb with soft, rather succulent stems in shrubbery.

312130. DESMODIUM sp.

Col. No. 21709. East of Guatemala City 15 miles along highway to Porto Barrios. Elevation 3,000 feet. Perennial herb, 5 dm. tall, on gravelly roadside.

312131. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

Col. No. 21803. Santa Maria Jesus, Sacatepequez Department. Elevation 6,000 feet. Fruits small, borne in racemes.

312132. PASSIFLORA LIGULARIS Juss. Passifloraceae. Sweet granadilla.

Col. No. 21804. 'Grenadillo'. Salama, Baja Verapaz. Elevation 2,800 feet. Vine.

312133. PHASEOLUS cf. **ACUTIFOLIUS** A. Gray Leguminosae.

Col. No. 21714. 'Frijol blanco'. Store in Progreso. Small, variable, white.

312134. PHASEOLUS ATROPURPUREUS DC.

Col. No. 21710. East of Guatemala City 15 miles. Elevation 3,000 feet. Perennial ground vine; flowers dark purple.

312124 to 312140—Continued

312135 and 312136. *PISUM SATIVUM* L. Leguminosae. **Pea.**

312135. Col. No. 21742. 'Alberja'. Coban, Alta Verapaz. Elevation 4,000 feet.

312136. Col. No. 21764. 'Alberga'. Quiche Market. Elevation 6,000 feet.

312137 to 312140. *VIGNA SINENSIS* (Torner) Savi Leguminosae.

Cowpea.

312137. Col. No. 21731. 'Jas'. Santa Cruz, Alta Verapaz. Elevation 4,000 feet. From Rabenal. Small, black.

312138. Col. No. 21746. 'Jas'. San Cristobal, Alta Verapaz. Elevation 4,000 feet. Small, black with white eye.

312139. Col. No. 21770. 'Negro de Chichicastenango'. Chichicastenango. Small, black with white hilum.

312140. Col. No. 21761. Market in Quiche. Elevation 6,000 feet. Black with white eye.

312141. *ARACHIS HYPOGAEA* L. Leguminosae.

Peanut.

From India. Seeds presented by Division of Plant Introduction, Indian Agricultural Research Institute, New Delhi. Received March 2, 1966.

Raichur V. No. 273. Grown by Mysore Experiment Station. Reported resistant to leaf spot.

312142 to 312157.

From the Netherlands. Budsticks presented by the Landbouwhogeschool, Laboratorium voor Planten-systematiek en Geografie, Wageningen. Received March 2, 1966.

312142. *PYRUS ASIAE-MEDIAE* Popow Rosaceae.

No. 2085/62. Alma-ata, U.S.S.R.

312143. *PYRUS ELAEAGRIFOLIA* var. *KOTSCHYANA* (Deene.) Boiss.

No. 17497(B-10). Arboretum at Goluchow, Poland.

312144 and 312145. *PYRUS NIVALIS* Jacq.

From Leiden Botanical Garden.

312144. Unnumbered. (Old tree of 1818.)

312145. Unnumbered. (Young tree.)

312146 and 312147. *PYRUS REGELII* Rehd.

312146. No. 1325/62. Taschkent, U.S.S.R.

312147. No. 2086/62. Alma-ata, U.S.S.R.

312148. *PYRUS SALVIFOLIA* DC.

No. 17498(B-10). Arboretum, Goluchow, Poland.

312149. *PYRUS SYRIACA* Boiss.

No. 1087/62. Horticultural Botanical Academy, U.S.S. Armenia, Erevan.

312150 to 312152. *PYRUS USSURIENSIS* Maxim.

312150. No. 2088/62. Alma-ata, U.S.S.R.

312151. No. 2319/62. Maxim-Taschkent, U.S.S.R.

312152. No. 2421/62. Maxim Dueschambe (Stalinbad) U.S.S.R.

312153. *PYRUS* sp.

No. 17499. Budapest, Hungary.

312142 to 312157—Continued

312154. PYRUS sp.

No. 17500. Budapest, Hungary.

312155. PYRUS sp.

No. 17496 (B-10). Arboretum, Goluchow, Poland.

312156. PYRUS sp.

No. 15439(24-B). Seeds originally from Tokyo.

312157. PYRUS sp.

Unnumbered. Leiden Botanical Garden.

312158 to 312162.

From Scotland. Plants presented by the Scottish Horticultural Research Institute, Invergowrie, Dundee. Received Feb. 21, 1966. Numbered March 2, 1966.

312158. RUBUS GEOIDES J. E. Smith. Rosaceae.

Frutilla.

312159. RUBUS HENRYI var. BAMBUSARUM (Focke) Rehder

312160 and 312161. RUBUS IDAEUS var. STRIGOSUS (Michx.) Maxim

312160. Lloyd George.

312161. Malling Enterprise.

312162. RUBUS (hybrid).

MTH 1/11.

312163 to 312211.

From Mexico. Seeds collected in 1965 by H.S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received March 2, 1966.

312163. CEREUS sp. Cactaceae.

Col. No. 21248. Market in Tehuacan, Puebla. Elevation 5,000 feet. Tree cactus with edible fruits.

312164. CROTALARIA PUMILA Ortega Leguminosae.

Col. No. 21971. 'Cascabel'. San Bernardo, Sonora. Common annual herb.

312165. CUCURBITA MAXIMA Duchesne

Squash.

Col. No. 21918. 'Calabasa lechonga'. Huajuapán, Oaxaca.

312166 to 312168. CUCURBITA MOSCHATA Duchesne ex Poir

Cushaw.

312166. Col. No. 21246. 'Pipian'. Market in Tehuacan, Puebla. Elevation 5,000 feet. Large seed with wide dark gray conspicuous margin.

312167. Col. No. 21877. 'Semilla de chihua'. Market in Tuxtla Gutierrez; sample from Laurel, Chiapas.

312168. Col. No. 21919. 'Calabasa'. Huajuapán, Oaxaca. Elevation 5,000 feet.

312169. DESMODIUM sp. Leguminosae.

Col. No. 21889. Road fork, 10 miles south of Mitla along Pan American Highway, Oaxaca. Annual, to 3 feet high; stems 1 or 2, single or branching top.

312170. DESMODIUM sp.

Col. No. 21903. Northwest of Oaxaca, 28 miles. Elevation 6,350 feet. Procumbent perennial, stems thick, pubescent, to 3 feet tall.

312163 to 312211—Continued**312171. DESMODIUM sp.**

Col. No. 21904. Northwest of Oaxaca, 28 miles. Perennial herb, erect; stems ascending, slender; to 2 feet tall.

312172. DESMODIUM sp.

Col. No. 21963. San Bernardo, Sonora. Elevation 2,000 feet. Annual herb; tall, leafy.

312173. IPOMOEA PALMERI S. Wats. Convolvulaceae.

Col. No. 21974. 'Trompillo blanco'. San Bernardo, Sonora. Vine, flowers white.

312174. IPOMOEA TRICOLOR Cav.

Col. No. 21901. Milta, Oaxaca. Ornamental vine; flowers large, blue or white.

312175 to 312180. LENS CULINARIS Medic. Leguminosae. Lentil.

Market in Oaxaca. Elevation 5,000 feet.

312175. Col. No. 21322. 'Lenteja'. Field lentil from Nochixtlan.

312176. Col. No. 21323. 'Lenteja'. Cultivated in Oaxaca Valley.

312177. Col. No. 21324. 'Lenteja'. From Ocotlan.

312178. Col. No. 21325. 'Lenteja'. From Mixteca.

312179. Col. No. 21326. 'Lenteja'. From Santa Ana.

Market in Tuxtla Gutierrez, Chiapas. Elevation 2,300 feet.

312180. Col. No. 21884.

312181 to 312191. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

Market in Tehuacan, Puebla. Elevation 5,000 feet.

312181. Col. No. 21280. 'Jitomate'. Medium sized, depressed globose, fluted.

312182. Col. No. 21281. 'Jitomate'. Medium large, round, strongly fluted, fruits with purplish cast over red.

312183. Col. No. 21282. 'Jitomate'. Large, fruit pyriform, "paste" type.

312184. Col. No. 21283. 'Jitomate'. Small, oblong to pyriform, red.

312185. Col. No. 21284. 'Jitomate'. Large, oblong to pyriform; seeds few; walls thick.

312186. Col. No. 21285. 'Jitomate'. Small, depressed round, walls thin.

Market in Ajalpan, Puebla. Elevation 5,000 feet.

312187. Col. No. 21288. Medium sized, prominently ribbed.

312188. Col. No. 21289. Small, pyriform, red.

312189. Col. No. 21290. 'Jitomate'. Small to medium sized, round, rather regular.

312190. Col. No. 21291. 'Jitomate'. Small, oblong.

312191. Col. No. 21292. Medium sized, angular fluted.

312192. PHASEOLUS cf. ANGUSTIFOLIUS Roxb. Leguminosae.

Col. No. 21278. 'Frijol aluvia'. Market in Tehuacan, Puebla. Small, white; grown at San Cristobal de Tepeteopan.

312193. PHASEOLUS cf. ANISOTRICHUS Schlecht.

Col. No. 21966. 'Frijol del monte'. San Bernardo, Sonora. Small, vine, fruits abundant.

312163 to 312211—Continued

312194. *PHASEOLUS GRANDIFLORUS* Steud.

Col. No. 21902. Northwest of Oaxaca 28 miles. Elevation 6,350 feet. Perennial ground vine on dry grassy slope.

312195. *PHASEOLUS* sp.

Col. No. 21876. 'Frijol chicharo'. Market in Tuxtla Gutierrez. Sample from Tustepequez, Chiapas. Small light pulse of mung bean size.

312196. *PHASEOLUS* sp.

Col. No. 21967. 'Frijol del monte'. San Bernardo, Rio Mayo, Sonora. Herbaceous vine, seeds small, angular, olivaceous.

312197. *PHASEOLUS* sp.

Col. No. 21970. 'Frijol del monte'. San Bernardo, Sonora. Small vine with broad leaflets.

312198. *PHASEOLUS* sp.

Col. No. 21972. 'Frijol del monte'. San Bernardo, Sonora.

312199 and 312200. *PISUM SATIVUM* L. Leguminosae. **Pea.**

312199. Col. No. 21241. 'Chicharo verejon'. Market in Penjamo, Guanajuato. Elevation 5,000 feet. Small, smooth.

312200. Col. No. 21321. 'Chicharo cambry'. Market in Oaxaca, Oaxaca. Green.

312201. *QUAMOCLIT PENNATA* (Desr.) Voigt Convolvulaceae. **Starglory cypressvine.**

Col. No. 21968. 'Trompillo rojo'. Las Igerillas near San Bernardo, Sonora. Annual, vine; flowers bright red.

312202 to 312211. *VIGNA SINENSIS* (Torner) Savi Leguminosae. **Cowpea.** Market in Alamos, Sonora.

312202. Col. No. 21216. 'Yori muni'. Uniform, cream with brown eye. Market in Tuxtla Gutierrez.

312203. Col. No. 21871. 'Frijol de Castilla'. Sample from Villa Flores, Chiapas. Small, white with conspicuous black eye.

312204. Col. No. 21873. 'Frijol negro de Castilla'.

Sample from Rivera, Chiapas. Blocky, black with small white hilum.

312205. Col. No. 21880. 'Frijol de Castilla'. Sample from Villa Flores, Chiapas. Uniform, pale dun colored.

Rio Mayo coastal lowlands, Sonora.

312206. Col. No. 21956. 'Frijol del Mayo bayito'. White, brown eye.

312207. Col. No. 21962. 'Frijol bayo'. Small, pale with a dark, prominent, ringed eye.

San Bernardo, Sonora.

312208. Col. No. 21964. 'Frijol bayito'. Small, white, brown eye.

312209. Col. No. 21965. 'Frijol gamusa'. Cream-colored.

312210. Col. No. 21969. 'Bayito chiquito'. White, brown eye.

312211. Col. No. 21973. 'Frijol bolata'. Small, rounded, shotlike, mixed color characters. "Select for green seedcoat."

312212 to 312217. *VITIS VINIFERA* L. Vitaceae.

European grape.

From Switzerland. Cuttings presented by the Stations Federales D'Essais Agricoles, Nyon. Received March 3, 1966.

312212 to 312217—Continued

312212. 'Gamay de Caudoz'. Clone 3.29 Pully.
 312213. 'Rouge de la Loire'. Clone E 16.
 312214. 'Rouge de la Loire'. Clone E 17.
 312215. 'Rouge de la Loire'. Clone E 18.
 312216. 'Rouge de la Loire'. Clone E 19.
 312217. 'Rouge de la Loire'. Clone E 20.

312218 to 312221. PUNICA GRANATUM L. Punicaceae.**Pomegranate.**

From Israel. Seeds presented by the National and University Institute of Agriculture, Plant Introduction Service, Rehovoth. Received March 4, 1966.

312218. 'Green Mallisi'. 312220. 'Mallisi a'.
 312219. 'Lufani'. 312221. 'Mallisi b'.

312222. GLYCINE MAX (L.) Merr. Leguminosae. Soybean.

From the Philippines. Seeds presented by World Health Organization, United Nations through Agency for International Development, Food Division, Manila. Received March 4, 1966.

'Mission'. Grown in Pangosinan Province. Originated in Hong Kong about 1955. Reported free of trypsin inhibitor, relatively soft skinned and free of bitter taste.

312223 and 312224.

From New Zealand. Plants presented by the Forest and Range Experiment Station, New Zealand Forest Service, Rangiora. Received March 4, 1966.

312223. CHIONOCHLOA AUSTRALIS (Buch) Zotov Gramineae.
 312224. NOTODANTHONIA SETIFOLIA (Hook. f.) Zotov Gramineae.

312225. FESTUCA OVINA L. Gramineae. Sheep fescue.

From Spain. Seeds presented by the Institute Forestal de Investigaciones y Experiencias, Madrid, via the United States Embassy, Rome, Italy. Received April 25, 1963. Numbered March 4, 1966.

Component of P.I. 289656.

312226 to 312240.

From Great Britain. Plants purchased from Hillier and Sons, Winchester, England. Received March 7, 1966.

312226. ACER DIVERGENS Koch & Pax Aceraceae.
 312227. ACER FRANCHETII Pax Franchet maple.
 312228. ACER GIRALDII Pax
 312229. ACER TETRAMERUM Pax
 312230. AESCULUS ARGUTA Buckley Hippocastanaceae.
 312231. CYTISUS SCOPARIUS ANDREANUS Dipp. Leguminosae. Paradise broom.
 312232. FRAXINUS EXCELSIOR f. AUREO-PENDULA Rehder Oleaceae.
 312233. LARIX DECIDUA Mill. var. FASTIGIATA Koch Pinaceae.
 312234. LARIX GMELINII var. PRINCIPIS-RUPPRECHTII (Mayr) Pilger
 312235. LARIX POTANINII Batal Chinese larch.
 312236. SALIX sp. Salicaceae.

312226 to 312240—Continued312237. *SALIX* sp.312238. *ZELKOVA CARPINIFOLIA* (Pall.) Dipp. Ulmaceae. **Elmleaf zelkova.**312239. *ZELKOVA SERRATA* (Thunb.) Makino312240. *ZELKOVA VERSCHAFFELTII* (Dippel) Nicholson**312241 to 312270. SACCHARUM (hybrid). Gramineae.****Sugarcane.**

From India. Cuttings presented by the Director, Sugarcane Breeding Institute, Coimbatore. Received March 7, 1966.

Grown at the Regional Sugarcane Sub-Station, Olavakkot, Palghat-2.

312241. I.A. 52. 312256. I.A. 1100.

312242. I.A. 63. 312257. I.A. 1145.

312243. I.A. 110. 312258. I.A. 1180.

312244. I.A. 132. 312259. I.A. 1190.

312245. I.A. 146. 312260. I.A. 1211.

312246. I.A. 157. 312261. I.A. 1219.

312247. I.A. 161. 312262. I.A. 1231.

312248. I.A. 880. 312263. I.A. 1365.

312249. I.A. 891. 312264. I.A. 1367.

312250. I.A. 983. 312265. I.A. 1384.

312251. I.A. 993. 312266. I.A. 1390.

312252. I.A. 1041. 312267. I.A. 1393.

312253. I.A. 1053. 312268. I.A. 1436.

312254. I.A. 1060. 312269. I.A. 1481.

312255. I.A. 1066. 312270. I.A. 1483.

312271. DIANTHUS CARYOPHYLLUS L. Caryophyllaceae.**Clove pink carnation.**

From France. Seeds presented by Botanic Garden, Ville de Marseille. Received March 9, 1966.

312272 and 312273.

From Canada. Seeds presented by University of British Columbia, Vancouver. Received March 9, 1966.

312272. *DIANTHUS GRANITICUS* Ford. Caryophyllaceae.312273. *DIANTHUS STERNBERGII* Sieber**312274. HIBISCUS sp. Malvaceae.**

From Mexico. Seeds presented by O. F. Francke, Mexico, D.F. Received March 9, 1966.

Papaloapam River Basin, Veracruz. Wild; flowers pink.

312275. CARTHAMUS TINCTORIUS L. Compositae. Safflower.

From Hungary. Seed presented by National Institute of Agrobotany, Tapioszele. Received March 9, 1966.

Local strain reported tolerant to insect damage.

312276 to 312283.

From France. Seeds presented by University Botanic Garden, Place
Marechal Leclerc, Besancon. Received March 9, 1966.

312276. *CYTISUS DECUMBENS* (Willd.) Spach Leguminosae.

No. 1095.

312277. *CYTISUS HIRSUTUS* L.

No. 1096.

312278. *CYTISUS RATISBONENSIS* Schaeff.

No. 1097.

312279. *CYTISUS SUPINUS* L.

Bigflower broom.

No. 1098.

312280. *FESTUCA OVINA* L. Gramineae.

Sheep fescue.

No. 1985.

312281. *GENISTA SAGITTALIS* L. Leguminosae.

No. 1905.

312282. *GENISTA TINCTORIA* L.

Woadwaxen.

No. 1106.

312283. *NOLANA PROSTRATA* L. Convolvulaceae.

No. 1253.

312284 to 312344. *PHASEOLUS VULGARIS* L. Leguminosae.

From the United States. Original collections made about 1935 by A. C.
Hildreth and Le Roy Powers, Cheyenne Horticultural Field Station, from
Indian reservations and pueblos of the Southwest. Numbered March 9,
1966.

From Handley, Tex.

312284. CHFS No. 1. Originally from Panccio, Mexico.

From Chinle, Ariz.

312285. CHFS No. 3. Variety 14, strain K. Resistant to halo blight.

From Zia, N. Mex.

312286. CHFS No. 4. Variety 13, strain F.

312287. CHFS No. 5. Variety 13, strain C. White seed.

312288. CHFS No. 7. Variety 13, strain B.

312289. CHFS No. 8. Variety 13, strain C. Reddish brown seed.

312290. CHFS No. 9. Variety 13, strain A.

From Gallup, N. Mex.

312291. CHFS No. 11. Variety 12, strain A.

312292. CHFS No. 14. Variety 12, strain O.

312293. CHFS No. 15. Variety 12, strain E.

312294. CHFS No. 17. Variety 12, strain G.

From Chinle, Ariz.

312295. CHFS No. 19. Variety 14, strain J.

312296. CHFS No. 22. Variety 14, strain O.

312297. CHFS No. 25. Variety 14, strain V.

312284 to 312344—Continued

312298. CHFS No. 26. Variety 14, strain H.
From Sapello Canyon, N. Mex.
312299. CHFS No. 29. Variety 17, strain B. High elevation.
From Chinle, Ariz.
312300. CHFS No. 31. Variety 19, strain A.
From San Ildefonso, N. Mex.
312301. CHFS No. 36. Variety 21, strain A.
312302. CHFS No. 37. Variety 21, strain B.
From Black Mountain, Ariz.
312303. CHFS No. 38. Variety 23, strain A. Resistant to halo blight.
312304. CHFS No. 40. Variety 23, strain C.
312305. CHFS No. 41. Variety 23, strain D. Resistant to halo blight.
312306. CHFS No. 42. Variety 23, strain E.
312307. CHFS No. 44. Variety 23, strain J.
312308. CHFS No. 45. Variety 23, strain K.
From Shiprock, N. Mex.
312309. CHFS No. 47. Variety 25, strain A.
From Inesta, N. Mex.
312310. CHFS No. 57. Variety 45, strain A.
312311. CHFS No. 58. Variety 45, strain B.
312312. CHFS No. 60. Variety 46, strain B.
From Lagunza, N. Mex.
312313. CHFS No. 61. Variety 48, strain A.
From Acoma Pueblo, N. Mex.
312314. CHFS No. 62. Variety 49, strain A.
312315. CHFS No. 63. Variety 49, strain B.
From Santa Clara, N. Mex.
312316. CHFS No. 65. Original Indian.
From Taos, N. Mex.
312317. CHFS No. 66. Variety 1, strain A.
312318. CHFS No. 67. Variety 1, strain B.
312319. CHFS No. 68. Variety 1, strain C.
312320. CHFS No. 69. Variety 1, strain D.
From Zuni Pueblo, N. Mex.
312321. CHFS No. 71. Variety 3, strain A.
312322. CHFS No. 72. Variety 4, strain A.
From Gallup, N. Mex.
312323. CHFS No. 75. Variety 6, strain C.
312324. CHFS No. 76. Variety 6, strain D.
312325. CHFS No. 77. Variety 8, strain A.
312326. CHFS No. 79. Variety 8, strain AB.
312327. CHFS No. 80. Variety 8, strain B.

312284 to 312344—Continued

312328. CHFS No. 83. Variety 8, strain BD.
 312329. CHFS No. 85. Variety 8, strain C.
 312330. CHFS No. 86. Variety 8, strain E.
 312331. CHFS No. 89. Variety 8, strain FB.
 312332. CHFS No. 90. Variety 8, strain G.
 312333. CHFS No. 91. Variety 8, strain H.
 312334. CHFS No. 93. Variety 8, strain HB.
 312335. CHFS No. 94. Variety 8, strain HC.
 312336. CHFS No. 95. Variety 8, strain HD.
 312337. CHFS No. 97. Variety 8, strain J.
 312338. CHFS No. 98. Variety 8, strain K.
 312339. CHFS No. 100. Variety 8, strain LA.
 312340. CHFS No. 101. Variety 8, strain LB.
 312341. CHFS No. 103. Variety 8, strain MA.
 312342. CHFS No. 106. Variety 8, strain NA.
 312343. CHFS No. 107. Variety 8, strain NB.
 312344. CHFS No. 108. Variety 8, strain NC.

312345 to 312357.

From Great Britain. Plants purchased from Hillier and Sons, Winchester, England. Numbered March 9, 1966.

312345. ACER AMPLUM Rehd. Aceraceae.
 312346. ACER CAPPADOCICUM Gleditsch
 312347. ACER CAPPADOCICUM f. RUBRUM (Kirchn.) Rehder
 312348. ACER PSEUDO-PLATANUS L.
 312349. ACER RUFINERVE f. ALBO-LIMBATUM (Hook. f.) Schwerin
 312350. CELTIS CAUCASICA Willd. Ulmaceae. **Hackberry.**
 312351. FRAXINUS PENNSYLVANICA Marsh. Oleaceae.
 312352. FRAXINUS PENNSYLVANICA f. AUCUBAEFOLIA (Jager) Rehd.
 312353. LABURNUM ALPINUM f. AUTUMNALE (bean) Leguminosae.
 312354. PYRUS COSSONII Rehder Rosaceae.
 312355. PYRUS SINAI Desf.
 312356. SALIX DONIANA Sm. Salicaceae.
 312357. ZELKOVA SINICA C. Schneider Ulmaceae.

312358. ROSA CANINA L. Rosaceae. Dog rose.

From the Union of Soviet Socialist Republics. Seeds presented by the Institute of Plant Industry, Leningrad. Received March 9, 1966.

312359 to 312362. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Germany. Tubers presented by the Max-Planck Institute, Koln-Vogelsang. Received March 10, 1966.

312359. A1633a. 312361. A1712.
 312360. A1651. 312362. A1747.

312363 to 312402. SACCHARUM (hybrid). Gramineae. **Sugarcane.**

From the Dominican Republic. Cuttings presented by the Central Romana Corporation, La Romana. Received March 11, 1966.

<i>P.I. No.</i>	<i>Variety No.</i>	<i>Parentage</i>
312363.	CR 6207	Eros x CP 36-705
312364.	CR 6210	PR 1000 x B 41227
312365.	CR 6217	M 336 x CP 38-34
312366.	CR 6220	Co 270 x B 41227
312367.	CR 6223	POJ 2878 x B 42231
312368.	CR 6302	CoK 32 x Co 453
312369.	CR 6303	TM 71 x Co. 453
312370.	CR 6310	TM 71 x CP 44-101
312371.	CR 6312	TM 71 x CP 44-101
312372.	CR 6314	TM 71 x CP 44-101
312373.	CR 6334	CoK 32 x CP 52-98
312374.	CR 6348	Akbar x CP 30-24
312375.	CR 6349	Akbar x CP 30-24
312376.	CR 6365	B 41242 x Co 453
312377.	CR 6368	NCo 310 x Co 453
312378.	CR 6376	TM 71 x CP 36-138
312379.	CR 6389	Co 313 x CP 38-34
312380.	CR 63101	CP 52-43 x Co 312
312381.	CR 63104	CP 52-43 x CP 36-138
312382.	CR 63107	Co 313 x M 336
312383.	CR 63109	Eros x CP 44-101
312384.	CR 63113	Eros x CP 44-101
312385.	CR 63115	PR 1000 x Co 617
312386.	CR 63140	TM 71 x CP 44-101
312387.	CR 63146	Co 313 x Co 453
312388.	CR 63159	Co 312 x CP 38-34
312389.	CR 63174	CP 29-103 x Co 453
312390.	CR 63176	CP 29-103 x Co 453
312391.	CR 63178	Q 34 x Uba Marot
312392.	CR 63190	Eros x U.S. 53-16-1
312393.	CR 440	Cristalina x <i>S. spont. aegypticum</i>
312394.	CR 441	Cristalina x <i>S. spont. aegypticum</i>
312395.	CR 441	Cristalina x <i>S. spont. aegypticum</i>
312396.	CR 444	Cristalina x <i>S. spont. aegypticum</i>
312397.	CR 445	Cristalina x <i>S. spont. aegypticum</i>
312398.	CR 448	Cristalina x <i>S. spont. aegypticum</i>
312399.	CR 452	Cristalina x <i>S. spont. aegypticum</i>
312400.	CR 455	Cristalina x <i>S. spont. aegypticum</i>

312363 to 312402—Continued

<i>P.I. No.</i>	<i>Variety No.</i>	<i>Parentage</i>
312401.	CR 456	Cristalina x <i>S. spont. aegypticum</i>
312402.	CR 457	Cristalina x <i>S. spont. aegypticum</i>

312403 to 312425. SACCHARUM (hybrid). Gramineae.

Sugarcane.

From the Dominican Republic. Seeds presented by the Central Romana Corporation, La Romana. Received March 11, 1966.

<i>P.I. No.</i>	<i>Parentage</i>	<i>Cross No.</i>
312403.	CR 63-31	CP 57603 x B 52107
312404.	CR 79	CP 52-43 x CP 44101
312405.	CR 82	CP 61-57 x CP 57-603
312406.	CR 96	US 53-20-13 x CP 57-603
312407.	CR 118	CP 29-103 x M 6339.
312408.	CR 124	CP 45-150 x Q 58
312409.	CR 125	CP 45-150 x U. Marot
312410.	CR 131	CP 52-43 x B 45181
312411.	CR 140	CL 41223 x U. Marot
312412.	CR 159	CP 4364 x CP 57-603
312413.	CR 163FK	Uba x CP 38-34
312414.	CR 198	CL 41223 x U. Marot
312415.	CR 201	CP 52-43 x B 41242
312416.	CR 230	B 37161 x CP 38-34
312417.	CR 238	M 76-39 x CP 52-43
312418.	CR 265	CP 52-68 x CP 57-603
312419.	CR 267	CL 41223 x CP 57-603
312420.	CR 301	B 37161 x CP 33224
312421.	CR 315	B 5124 x CL 47-83
312422.	CR 320	B 37161 x CP 38-34
312423.	CR 330	NCo 310 x CP 57-603
312424.	CR 331	CP 29320 x U. Marot
312425.	CR 332	CP 45150 x U. Marot

312426. LYCOPERSICON PIMPINELLIFOLIUM (Jusl.) Mill. Solanaceae. Currant tomato.

From Honduras. Seeds collected February 24, 1966 by H. H. Fisher, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered March 14, 1966.

Vicinity Comayagua. Drought and disease resistant. Wild, on mountain sides.

312427 to 312431.

From Australia. Seeds presented by Soil Conservation Authority, Victoria. Received March 14, 1966.

312427.	ACACIA CYANOPHYLLA Lindl.	Leguminosae.	Blueleaf acacia.
312428.	CASUARINA CUNNINGHAMIANA Miquel	Casuarinaceae.	Cunningham beefwood.

312427 to 312431—Continued

312429. *GALENIA SECUNDA* Sond. Aizoaceae.

312430. *KENNEDYA PROSTRATA* R. Br. ex Ait. Leguminosae.

312431. *PUCCINELLIA CAPILLARIS* (Liljebl.) Tzvelev Gramineae.

312432. *RHODOTHAMNUS CHAMAECISTUS* (L.) Reichb. Ericaceae.

From Switzerland. Seeds presented by the City Botanic Garden of Geneva, Geneva. Received March 14, 1966.

312433 and 312434. *ACTINIDIA CHINENSIS* Planch. Dilleniaceae.
Yang tao.

From France. Plants presented by J. L. Soyez, Ivry S/Seine in December 1964. Numbered March 15, 1966.

Introduced by the Vilmorin family before World War I from China.

312433. Male plant.

312434. Female plant.

312435. *VITIS VINIFERA* L. Vitaceae. **European grape.**

From Switzerland. Cuttings presented by the Eidg. Versuchsanstalt für Obst, Wein und Gartenbau, Wädenswil. Received March 18, 1966.

'Clevner Mariafeld'. Selection from Blauer Burgunder (pinot noir).

312436 to 312482.

From the Union of Soviet Socialist Republics. Seeds presented by the Botanical Institute of Tbilisi, Academy of Science of Georgia, R.S.S. Received March 15, 1966.

312436. *ACER HYRCANUM* Fisch. et Mey. Aceraceae.

Tbilisi.

312437. *ACER MONSPESSULANUM* var. *IBERICUM* (Bieb.) Pax

Tbilisi.

312438. *AGROPYRON PECTINIFORME* Roem. & Schult. Gramineae.

Schiraki.

312439. *AMELANCHIER ROTUNDIFOLIA* (Lam.) Dum.-Cours. Rosaceae.

European shadblow.

Tbilisi.

312440. *ARTEMISIA CHAMAENELIFOLIA* Vill. Compositae.

Bakuriani.

312441. *ASTRAGALUS STEPHENIANUS* Aitch. et Baker Leguminosae.

Schiraki.

312442. *BOTHRIOCHLOA CAUCASICA* (Trin.) C. E. Hubb. Gramineae.

Caucasian bluestem.

Schiraki.

312443. *BRIZA MEDIA* L. Gramineae.

Tbilisi.

312444. *BUXUS COLCHICA* Pojark. Buxaceae.

Tbilisi.

312445. *CARPINUS* sp. Betulaceae.

Tbilisi.

312436 to 312482—Continued

312446. *CORYLUS AVELLANA* L. Betulaceae. Filbert.
Tbilisi.
312447. *CORYLUS IBERICA* Wittm. ex Bobrov
Tbilisi.
312448. *CREPIS FOETIDA* L. Compositae.
Tbilisi.
- 312449 and 312450. *DACTYLIS GLOMERATA* L. Gramineae. Orchardgrass.
312449. Schiraki.
312450. Tbilisi.
312451. *FESTUCA OVINA* L. Gramineae. Sheep fescue.
Bakuriani.
312452. *FESTUCA SCLEROPHYLLA* Boiss.
Bakuriani.
312453. *FESTUCA VARIA* Haenke Fescue.
Bakuriani.
312454. *GEUM URBANUM* L. Rosaceae.
Tbilisi.
312455. *HEDERA CAUCASIGENA* Pojark. Araliaceae.
Tbilisi.
312456. *KOELERIA GRACILIS* Pers. Gramineae.
Schiraki.
312457. *LATHYRUS ROTUNDIFOLIUS* Willd. Leguminosae.
Tbilisi.
312458. *MEDICAGO COERULEA* Less. ex Ledeb. Leguminosae.
Schiraki.
- 312459 ad 312460. *MEDICAGO ORBICULARIS* (L.) All. Buttonclover.
312459. Schiraki.
312460. Tbilisi.
312461. *ONOBRYCHIS CYRI* Grossh. Leguminosae.
Tbilisi.
- 312462 and 312463. *ONOBRYCHIS KACHETICA* Boiss.
312462. Schiraki.
312463. Tbilisi.
312464. *ONOBRYCHIS KEMULARIAE* Chinth.
Bakuriani.
312465. *ONOBRYCHIS OXYTROPOIDES* Boiss.
Bakuriani.
312466. *ONOBRYCHIS TRANSCAUCASICA* Grossh.
Bakuriani.
312467. *ORYZOPSIS VIRESCENS* (Trin.) Beck Gramineae.
Tbilisi.

312436 to 312482—Continued

312468. *PARROTIA PERSICA* (DC.) Meyer Hamamelidaceae. **Persian parrotia.**
Tbilisi.
312469. *POA BULBOSA* L. Gramineae. **Bulbosa bluegrass.**
Tbilisi.
312470. *SANGUISORBA OFFICINALIS* L. Rosaceae.
Bakuriani.
312471. *SORBUS TORMINALIS* (L.) Crantz Rosaceae.
Tbilisi.
312472. *SORBUS UMBELLATA* var. *CRETICA* (Lindl.) C. Schneid.
Tbilisi.
312473. *CORNUS AUSTRALIS* C. A. Mayer Cornaceae.
Tbilisi.
312474. *TILIA DASYSTYLA* Stev. Tiliaceae.
Tbilisi.
312475. *TRAGOPOGON PUSILLUS* M.B. Compositae.
Schiraki.
312476. *TRIFOLIUM ALPESTRE* L. Leguminosae. **Purple globe clover.**
Bakuriani.
312477. *TRIFOLIUM CAMPESTRE* Schreb. **Large hop clover.**
Schiraki.
312478. *TRIFOLIUM CANESCENS* Willd.
Bakuriani.
312479. *TRIFOLIUM ECHINATUM* Bieb.
Schiraki.
312480. *TRIGONELLA MONSPELIACA* L. Leguminosae.
Schiraki.
312481. *VICIA TETRAPERMA* (L.) Moench Leguminosae.
Schiraki.
312482. *VICIA SATIVA* L.
Schiraki.

312483 and 312484. *PYRACANTHA* (hybrid). Rosaceae.

From the Netherlands. Plants presented by the Vuyk Van Nes Nurseries, Boskoop. Received March 15, 1966.

312483. 'Golden Charmer'.

312484. 'Orange Charmer'.

312485 to 312487. *VITIS VINIFERA* L. Vitaceae. **European grape.**

From the Republic of Lebanon. Cuttings presented by Elias A. Abi Khalil, Khath. Received March 16, 1966.

312485. 'Black Capital'.

312486. 'Beta Moni'.

312487. 'Long Negro Finger'.

312488 to 312509.

From Poland. Budsticks presented by the Research Institute of Pomology, Skierniewice. Received March 17, 1968.

312488 and 312489. MALUS SYLVESTRIS Mill. Rosaceae. Apple.

312488. 'Bankroft'.

312489. 'Malinowa Oberlandzka'.

312490. PRUNUS ARMENIACA L. Rosaceae. Apricot.

'Yubileynynyi Navoy'.

312491 to 312493. PRUNUS DOMESTICA L. Common plum.

312491. 'Besztercei Szilva'.

312492. 'Nyari Aszalo'.

312493. 'Wegierka Wczesna'.

312494 to 312507. PYRUS COMMUNIS L. Rosaceae.

312494. 'Beurre Slucka'.

312495. 'Cebulka'.

312496. 'Er-shi-shinge'.

312497. 'Gliva Ukrainskaya /Wilenska Plenna/'.

312498. 'Grumkower Butter Birne'.

312499. 'Ilinka'.

312500. 'Jalowcowka'.

312501. 'King Sobieski'.

312502. 'Krolewna'.

312503. 'Michurin's Winter Beurre'.

312504. 'Minister Dr. Lucius'.

312505. 'Phileson'.

312506. 'Prokopianka'.

312507. 'Summer Blood Birne'.

312508. PYRUS sp.

'Chin-shin'.

312509. PYRUS sp.

'Tse-li'.

312510 and 312511. HUMULUS LUPULUS L. Moraceae. Common hop.

From Great Britain. Cuttings presented by Department of Hop Research, Wye College, New Ashford, Kent, England. Received March 17, 1966.

Vigorous, wilt tolerant and symptomless carriers of mosaic virus. Later maturing than Fuggle but yield similar. Cones smaller than Fuggle; less likely to shatter.

312510. 'Alliance' W.E 1778.

312511. 'Progress' W/E 1008.

312512. COTONEASTER (hybrid). Rosaceae.

From the Netherlands. Plants purchased from F. J. Frottendorat and Sons, Boskoop. Received March 18, 1966.

'Saldam'.

312513 to 312777. *ORYZA SATIVA* L. Gramineae.

Rice.

From the Philippines. Seeds presented by the International Rice Research Institute, Manila. Received March 22, 1966.

<i>P.I.No.</i>	<i>Plot No.</i>	<i>Selection No.</i>	<i>Source</i>	<i>Cross</i>
312513.	1	11045	IR66-51-1	CP231 x Kh. 68
312514.	2	11079	IR66-103-2	CP231 x Kh. 68
312515.	3	7001	IR67-124	CP231 x Ch 242
312516.	4	11206	IR67-124-5	CP231 x Ch 242
312517.	5	11342	IR68-141-3	CP231 x P.I. 215936
312518.	6	11407	IR68-266-2	CP231 x P.I. 215936
312519.	10	224		CH 242 x CI 9155
312520.	11	11787	IR82-112-3	Siam 29 x P.I. 215936
312521.	12	13863	IR36-3-2-2	Siam 29 x Chianan 8
312522.	13	13865	IR36-3-3-1	Siam 29 x Chianan 8
312523.	14	13884	IR36-24-1-1	Siam 29 x Chianan 8
312524.	15	13896	IR36-27-1-1	Siam 29 x Chianan 8
312525.	16	14679	IR36-9-2-2	Siam 29 x Chianan 8
312526.	17	14698	IR38-55-2-2	Siam 29 x Kh. 68
312527.	18	11975	IR84-82-3	P.I. 215936 x Peta
312528.	22	12057	IR75-69-3	BPI-76 x Ch. 242
312529.	23	12102	IR75-141-1	BPI-76 x Ch. 242
312530.	24	12151	IR76-45-1	BPI-76 x T. 176
312531.	25	12239	IR77-7-2	BPI-76 x P.I. 215936
312532.	26	12247	IR77-27-3	BPI-76 x P.I. 215936
312533.	27	12255	IR77-40-2	BPI-76 x P.I. 215936
312534.	28	12274	IR77-54-3	BPI-76 x P.I. 215936
312535.	29	12299	IR77-109-1	BPI-76 x P.I. 215936
312536.	30	224	CH 242 x CI 9155	
312537.	32		Taichung 172	
312538.	33	220	Tainan 3	
312539.	34	12955	IR14-2-1-3	BPI-76 x Kh. 68
312540.	35	13018	IR14-121-3-2	BPI-76 x Kh. 68
312541.	36	7072	IR14-149-3	BPI-76 x Kh. 68
312542.	37	13029	IR14-149-3-1	BPI-76 x Kh. 68
312543.	38	14358	IR14-21-2-2	BPI-76 x Kh. 68
312544.	39	14370	IR14-51-3-1	BPI-76 x Kh. 68
312545.	40	14389	IR14-101-2-1	BPI-76 x Kh. 68
312546.	41	13053	IR16-32-3-2	BPI-76 x T. 172
312547.	43	15426	IR16-32-7	BPI-76 x T. 172
312548.	44	15432	IR16-32-13	BPI-76 x T. 172
312549.	45	15443	IR16-32-24	BPI-76 x T. 172
312550.	46	15496	IR16-32-30	BPI-76 x T. 172

312513 to 312777—Continued

<i>P.I.No.</i>	<i>Plot No.</i>	<i>Selection No.</i>	<i>Source</i>	<i>Cross</i>
312551.	47	15502	IR16-32-36	BPI-76 x T. 172
312552.	48	13055	IR16-40-1-1	BPI-76 x T. 172
312553.	49	7077	IR16-45-2	BPI-76 x T. 172
312554.	50	13087	IR16-82-2-3	BPI-76 x T. 172
312555.	51	14412	IR16-31-1-2	BPI-76 x T. 172
312556.	52	15450	IR16-85-10	BPI-76 x T. 172
312557.	53	15455	IR16-85-15	BPI-76 x T. 172
312558.	54	15459	IR16-85-19	BPI-76 x T. 172
312559.	55	15461	IR16-85-21	BPI-76 x T. 172
312560.	56	15468	IR-16-85-28	BPI-76 x T. 172
312561.	57	15470	IR16-85-30	BPI-76 x T. 172
312562.	58	15513	IR16-85-36	BPI-76 x T. 172
312563.	59	13104	IR23-9-3-3	BPI-76 x T. 172
312564.	60	13116	IR23-22-1-1	BPI-76 x T. 172
312565.	61	13124	IR23-41-3-2	BPI-76 x T. 172
312566.	62	13132	IR23-70-2-1	BPI-76 x T. 172
312567.	63	13139	IR23-89-1-2	BPI-76 x T. 172
312568.	64	13149	IR23-105-2-2	BPI-76 x T. 172
312569.	65	7085	IR32-38-2	BPI-76 x T. 3
312570.	66	13155	IR32-38-2-1	BPI-76 x T. 3
312571.	68	14458	IR32-64-1-2	BPI-76 x T. 3
312572.	69	14464	IR32-64-3-1	BPI-76 x T. 3
312573.	70	13175	IR34-56-3-2	BPI-76 x Ch. Yu 280
312574.	71	14471	IR34-17-1-2	BPI-76 x Ch. Yu 280
312575.	72	14482	IR34-26-2-3	BPI-76 x Ch Yu 280
312576.	73	12383	IR52-16-7-3	BPI-76/2 x Kh. 68
312577.	74	7025	IR52-18-2	BPI-76/2 x Kh. 68
312578.	75	12387	IR52-18-2-1	BPI-76/2 x Kh. 68
312579.	76	12416	IR52-26-7-1	BPI-76/2 x Kh. 68
312580.	77	12443	IR52-30-6-2	BPI-76/2 x Kh. 68
312581.	78	12482	IR53-6-1-1	BPI-76/2 x T. 172
312582.	79	12499	IR53-15-1-1	BPI-76/2 x T. 172
312583.	80	7029	IR53-15-1	BPI-76/2 x T. 172
312584.	81	12501	IR53-15-1-2	BPI-76/2 x T. 172
312585.	82	12550	IR60-9-3-1	BPI-76/2 x Ch. 8
312586.	83	12553	IR60-9-6-1	BPI-76/2 x Ch. 8
312587.	84	12556	IR60-12-1-1	BPI-76/2 x Ch. 8
312588.	85	12562	IR60-12-2-3	BPI-76/2 x Ch. 8
312589.	86	12563	IR60-12-4-1	BPI-76/2 x Ch. 8
312590.	87	7033	IR60-17-13	BPI-76/2 x Ch. 8

312513 to 312777—Continued

<i>P.I.No.</i>	<i>Plot No.</i>	<i>Selection No.</i>	<i>Source</i>	<i>Cross</i>
312591.	88	12659	IR61-5-9-1	BPI-76/2 x T. 3
312592.	89	12683	IR61-7-2-2	BPI-76/2 x T. 3
312593.	90	7039	IR61-7-3	BPI-76/2 x T. 3
312594.	91	12701	IR6-10-1-1	BPI-76/2 x T. 3
312595.	92	12704	IR61-10-3-1	BPI-76/2 x T. 3
312596.	93	12711	IR61-10-6-2	BPI-76/2 x T. 3
312597.	94	12736	IR61-24-2-2	BPI-76/2 x T. 3
312598.	95	12741	IR61-24-5-3	BPI-76/2 x T. 3
312599.	96	14061	IR28-108-1-1	FB24 x T. 172
312600.	97	14091	IR22-71-3	T. 172 x Tangkai Rotan
312601.	98	14092	IR22-80-1-1	T. 172 x Tangkai Rotan
312602.	99	14114	IR22-104-1-1	T. 172 x Tangkai Rotan
312603.	103	7147	IR2-62-2	T. Vuot x Igt
312604.	104	12843	IR3-56-2	BPI-76 x Dgwg
312605.	105	12918	IR3-122-1-1	BPI-76 x Dgwg
312606.	106	14327	IR3-54-1-2	BPI-76 x Dgwg
312607.	107	14330	IR3-68-3-2	BPI-76 x Dgwg
312608.	108	14333	IR3-79-3-2	BPI-76 x Dgwg
312609.	109	14348	IR3-117-1-1	BPI-76 x Dgwg
312610.	110	14346	IR3-137-1-2	BPI-76 x Dgwg
312611.	111	15481	IR3-66-14	BPI-76 x Dgwg
312612.	112	13190	IR8-19-1-1	Peta x Dgwg
312613.	113	13196	IR8-36-1-1	Peta x Dgwg
312614.	114	226	IR8-36	Peta x Dgwg
312615.	115	13208	IR8-42-1-3	Peta x Dgwg
312616.	116	13225	IR8-56-2-3	Peta x Dgwg
312617.	117	13226	IR8-64-3-1	Peta x Dgwg
312618.	118	13276	IR8-178-3-1	Peta x Dgwg
312619.	119	7104	IR8-179-3	Peta x Dgwg
312620.	120	7105	IR8-188-1	Peta x Dgwg
312621.	121	13292	IR8-190-1-1	Peta x Dgwg
312622.	122	13309	IR8-209-1-2	Peta x Dgwg
312623.	123	7110	IR8-242-1	Peta x Dgwg
312624.	124	13326	IR8-246-1-1	Peta x Dgwg
312625.	125	13346	IR8-255-3-2	Peta x Dgwg
312626.	126	13366	IR8-271-3-3	Peta x Dgwg
312627.	127	65/5	IR8-288-3	Peta x Dgwg
312628.	128	13379	IR8-288-3-1	Peta x Dgwg
312629.	129	13381	IR8-288-3-2	Peta x Dgwg
312630.	130	13382	IR8-288-3-3	Peta x Dgwg

312513 to 312777—Continued

<i>P.I.No.</i>	<i>Plot No.</i>	<i>Selection No.</i>	<i>Source</i>	<i>Cross</i>
312631.	131	13383	IR8-296-2-1	Peta x Dgwg
312632.	132	14496	IR8-75-2-2	Peta x Dgwg
312633.	133	14504	IR8-90-2-3	Peta x Dgwg
312634.	134	14513	IR8-142-3-3	Peta x Dgwg
312635.	135	14517	IR8-171-2-1	Peta x Dgwg
312636.	136	14521	IR8-172-3-1	Peta x Dgwg
312637.	139	14527	IR8-185-1-1	Peta x Dgwg
312638.	140	14535	IR8-244-2-3	Peta x Dgwg
312639.	141	16250	IR8-244-2	Peta x Dgwg
312640.	142	14541	IR8-279-2-2	Peta x Dgwg
312641.	143	14546	IR8-287-3-1	Peta x Dgwg
312642.	144	14553	IR8-297-1-2	Peta x Dgwg
312643.	145	231	Taichung (Native) 1	
312644.	146	5330	T(N) Yu 7	
312645.	147		I-geo-tze	
312646.	149	5199	Changhwa Dg x T(N) 1	
312647.	150	13408	IR9-26-1-2,	Peta x Igt
312648.	151	7125	IR9-46-2	Peta x Igt
312649.	152	7127	IR9-54-1	Peta x Igt
312650.	153	7128	IR9-59-2	Peta x Igt
312651.	154	13448	IR9-60-3-3	Peta x Igt
312652.	155	232	IR9-60	Peta x Igt
312653.	156	7130	IR9-60-2	Peta x Igt
312654.	157	7131	IR9-65-1	Peta x Igt
312655.	158	13481	IR9-201-3-3	Peta x Igt
312656.	159	13483	IR9-213-1-2	Peta x Igt
312657.	160	7133	IR9-241-3	Peta x Igt
312658.	161	13496	IR9-252-1-1	Peta x Igt
312659.	162	7137	IR9-252-2	Peta x Igt
312660.	163	1305	IR9-256-4-2	Peta x Igt
312661.	164	13508	IR9-257-3-2	Peta x Igt
312662.	165	7136	IR9-269-1	Peta x Igt
312663.	166	13524	IR9-271-3-2	Peta x Igt
312664.	167	13535	IR9-252-2-2	Peta x Igt
312665.	168	13539	IR9-292-2-2	Peta x Igt
312666.	169	13547	IR9-298-1-3	Peta x Igt
312667.	170	7139	IR9-342-2	Peta x Igt
312668.	171	13579	IR9-347-1-2	Peta x Igt
312669.	172	14573	IR9-108-2-3	Peta x Igt
312670.	173	14577	IR9-149-1-1	Peta x Igt

312513 to 312777—Continued

<i>P.I.No.</i>	<i>Plot No.</i>	<i>Selection No.</i>	<i>Source</i>	<i>Cross</i>
312671.	179		Tangkai Rotan	
312672.	181	13638	IR6-1-3-1	Siam 29 x Dgwg
312673.	182	13644	IR6-9-4-2	Siam 29 x Dgwg
312674.	183	7148	IR6-52-3	Siam 29 x Dgwg
312675.	184	13667	IR6-52-3-1	Siam 29 x Dgwg
312676.	185	7149	IR6-53-2	Siam 29 x Dgwg
312677.	186	13672	IR6-53-2-3	Siam 29 x Dgwg
312678.	187	13687	IR6-67-1-3	Siam 29 x Dgwg
312679.	188	13709	IR6-95-1-3	Siam 29 x Dgwg
312680.	189	13725	IR6-111-2-2	Siam 29 x Dgwg
312681.	190	13728	IR6-114-2-2	Siam 29 x Dgwg
312682.	192	13742	IR6-132-2-2	Siam 29 x Dgwg
312683.	194	13749	IR6-142-1-3	Siam 29 x Dgwg
312684.	195	13754	IR6-142-3-2	Siam 29 x Dgwg
312685.	196	7153	IR6-142-3	Siam 29 x Dgwg
312686.	197	13765	IR6-156-2-1	Siam 29 x Dgwg
312687.	198	13770	IR6-156-3-3	Siam 29 x Dgwg
312688.	199	13772	IR7-2-3-2	Siam 29 x Igt
312689.	200	7155	IR7-12-3	Siam 29 x Igt
312690.	201	7156	IR7-22-3	Siam 29 x Igt
312691.	202	13789	IR7-28-2-1	Siam 29 x Igt
312692.	203	14630	IR7-46-1-3	Siam 29 x Igt
312693.	204	14643	IR7-101-2-3	Siam 29 x Igt
312694.	205	236	IR4-2	H-105 x Dgwg
312695.	206	237	IR4-11	H-105 x Dgwg
312696.	207	14156	IR4-28-1-2	H-105 x Dgwg
312697.	208	14159	IR4-39-1-2	H-105 x Dgwg
312698.	209	14173	IR4-65-1-3	H-105 x Dgwg
312699.	210	14189	IR4-85-1-3	H-105 x Dgwg
312700.	211	14193	IR4-85-3-1	H-105 x Dgwg
312701.	212	14236	IR4-241-3-1	H-105 x Dgwg
312702.	213	14250	IR4-263-1-2	H-105 x Dgwg
312703.	214	15183	IR4-14-2-1	H-105 x Dgwg
312704.	215	15188	IR4-14-3-3	H-105 x Dgwg
312705.	216	15190	IR4-52-2-2	H-105 x Dgwg
312706.	217	15197	IR4-67-2-3	H-105 x Dgwg
312707.	218	15211	IR4-90-2-1	H-105 x Dgwg
312708.	219	15213	IR4-90-2-3	H-105 x Dgwg
312709.	202	15215	IR4-90-3-2	H-105 x Dgwg
312710.	221	15223	IR4-93-2-3	H-105 x Dgwg

312513 to 312777—Continued

<i>P.I.No.</i>	<i>Plot No.</i>	<i>Selection No.</i>	<i>Source</i>	<i>Cross</i>
312711.	222	15234	IR4-136-2-2	H-105 x Dgwg
312712.	223	14264	IR12-38-3-2	MCVA x Igt
312713.	224	14269	IR12-70-1-1	MCVA x Igt
312714.	225	14273	IR12-77-1-2	MCVA x Igt
312715.	226	14283	IR12-105-2-1	MCVA x Igt
312716.	227	14294	IR12-178-2-3	MCVA x Igt
312717.	228	15282	IR12-36-2-1	MCVA x Igt
312718.	229	15287	IR12-36-3-3	MCVA x Igt
312719.	230	14742	IR11-22-1-1	FB24 x Dgwg
312720.	231	14765	IR11-90-3-2	FB24 x Dgwg
312721.	232	14776	IR11-109-2-1	FB24 x Dgwg
312722.	235	14797	IR11-162-3-3	FB24 x Dgwg
312723.	236	14803	IR11-166-3-2	FB24 x Dgwg
312724.	237	14815	IR11-201-2-2	FB24 x Dgwg
312725.	238	14834	IR11-229-1-2	FB24 x Dgwg
312726.	239	14843	IR11-240-3-2	FB24 x Dgwg
312727.	240	16708	IR11-259-3	FB24 x Dgwg (old seed)
312728.	241	14887	IR11-387-2-2	FB24 x Dgwg
312729.	242	14912	IR11-432-2-2	FB24 x Dgwg
312730.	243	14914	IR11-452-1-1	FB24 x Dgwg
312731.	244	16927	IR5-44-2	Peta x Tangkai Rotan (old seed)
312732.	245	15004	IR5-44-3-2	Peta x Tangkai Rotan
312733.	246	16929	IR5-47-2	Peta x Tangkai Rotan
312734.	247	15007	IR5-47-1-2	Peta x Tangkai Rotan
312735.	248	15016	IR5-64-1-2	Peta x Tangkai Rotan
312736.	249	15019	IR5-64-2-2	Peta x Tangkai Rotan
312737.	250	15024	IR5-67-2-3	Peta x Tangkai Rotan
312738.	251	15026	IR5-81-3-2	Peta x Tangkai Rotan
312739.	252	15030	IR5-87-2-3	Peta x Tangkai Rotan
312740.	253	15034	IR5-90-1-1	Peta x Tangkai Rotan
312741.	254	15038	IR5-90-3-2	Peta x Tangkai Rotan
312742.	255	15049	IR5-99-1-3	Peta x Tangkai Rotan
312743.	256	15050	IR5-114-3-1	Peta x Tangkai Rotan
312744.	257	15063	IR5-140-1-1	Peta x Tangkai Rotan
312745.	258	15068	IR5-150-2-3	Peta x Tangkai Rotan
312746.	259	15076	IR5-177-2-2	Peta x Tangkai Rotan
312747.	260	15081	IR5-177-3-3	Peta x Tangkai Rotan
312748.	261	15084	IR5-181-1-3	Peta x Tangkai Rotan
312749.	262	15085	IR5-181-2-1	Peta x Tangkai Rotan

312513 to 312777—Continued

<i>P.I.No.</i>	<i>Plot No.</i>	<i>Selection No.</i>	<i>Source</i>	<i>Cross</i>
312750.	263	15088	IR5-198-1-1	Peta x Tangkai Rotan
312751.	266	15091	IR5-198-2-1	Peta x Tangkai Rotan
312752.	269	15094	IR5-209-2-1	Peta x Tangkai Rotan
312753.	270	15112	IR5-264-1-3	Peta x Tangkai Rotan
312754.	271	15117	IR5-273-1-2	Peta x Tangkai Rotan
312755.	272	15577	MIFB-322-1,	Maligaya Experiment Station
312756.	273	15584	MIFB-322-1,	Maligaya Experiment Station
312757.	274	15591	MIFB-322-1,	Maligaya Experiment Station
312758.	275	15594	RPP-31-3	
312759.	276	15596	RPP-31-3,	Maligaya Experiment Station
312760.	277	15599	RPP-31-3,	Maligaya Experiment Station
312761.	278	15604	RPP-322-1,	Maligaya Experiment Station
312762.	283	16033	IR157-16	Leuang Yai 34 x T(N)1
312763.	284	16376	IR253-17-1	Gam Pai/2 x T(N)1
312764.	285	16378	IR253-19-1	Gam Pai/2 x T(N)1
312765.	286	16575	IR127-2-2	(CP231 x SLO 17) x Sigadis
312766.	291	5229	Chin-Kou-Tsan	
312767.	292		Binato	
312768.	293		ADT 27	
312769.	294	129	B572A3-47	
312770.	295	134	B572A3-47	
312771.	296	136	B572A3-47	
312772.	297	137	Milfor-6(2)	
312773.	298	207	(CP231 x HO 12),	CI 9534
312774.	299	210	B581A6-545	
312775.	300	213	CP231 x SLO 17	(B5580A1-15)
312776.	301	217	T. 65 x T(N)1	
312777.	302	218	T. 65/2 x T(N)1	

312778. *EULOPHIA* sp. Orchidaceae.

From Ethiopia. Plants collected by Fred S. Meyer, agricultural explorer, United States National Arboretum, Washington, D. C. Numbered March 23, 1966.

No. 8612. Elevation 8,500 feet in Entotto Mountains, Shoa Province. Terrestrial among bushes on cliff face above a stream.

312779 to 312785.

From Sweden. Seeds presented by Universitetets Botaniska Trädgård, Uppsala. Received March 31, 1966.

312779. *ALLIUM CYANEUM* Regel Liliaceae.

312780. *ALLIUM KARATAVIENSE* Regel

312781. *COTONEASTER HARRYSMITHII* Flinch & Hylmo Rosaceae.

312782. *COTONEASTER MULTIFLORA* Bunge

312779 to 312785—Continued

312783. COTONEASTER OBSCURA Rehd. & Wils.
 312784. COTONEASTER SPLENDENS Flinch & Hylmo
 312785. GERANIUM DAHURICUM DC. Geraniaceae.

312786 and 312787.

From the Republic of China. Seeds presented by the College of Agriculture, National Taiwan University, Taipei, Taiwan. Received March 22, 1966.

312786. CITRUS sp. Rutaceae.

'Haili'.

312787. CITRUS sp.

'Tankan'.

**312788 and 312789. CITRUS SINENSIS (L.) Osbeck Rutaceae.
Sweet orange.**

From Spain. Budwood collected by C. Dean McCarty, Agricultural Extension Service, University of California, Davis, Calif. Number March 24, 1966.

312788. 'Primavera'. La Barraca-Aguas Vivas, Valencia.

Late-maturing navel orange; matures one month later than Washington Navel and remains on tree 4 to 6 weeks longer.

312789. 'Salustiana'. Tabernes de Valldigna, Valencia.

Smoother rind and better quality than other strains of same.

**312790 to 312796. GOSSYPIUM BARBADENSE L. Malvaceae.
Sea-island cotton.**

From the Republic of Ivory Coast. Seeds presented by Institut de Recherches du Coton et des Textiles Exotiques, Bouake. Received March 24, 1966.

- | | |
|---------------------------|-----------------------|
| 312790. 'Babo'. | 312794. 'Peruvianum'. |
| 312791. 'Grand Akoudsin'. | 312795. 6 B 3. |
| 312792. 'Ishan Nigeria'. | 312796. 3731. |
| 312793. 'Mono 63'. | |

**312797 and 312798. VITIS VINIFERA L. Vitaceae.
European grape.**

From France. Cuttings presented by the C.R.A.S.O. Viticulture, Pont-de-la-Maye. Received March 24, 1966.

312797. 'Baco 22 A'.
 312798. 'Malbec 1056'.

312799. PRUNUS sp. Rosaceae.

From France. Rooted cuttings presented by the Station de Recherche D'Arboriculture Fruitiere du Sud-Ouest, Pont-de-la-Maye. Received March 24, 1966.

- F₁ (P.322 × S.1058) 1.

**312800 to 312808. SACCHARUM (hybrid). Gramineae.
Sugarcane.**

From Hawaii. Cuttings presented by the Hawaiian Sugar Planters Association Experiment Station, Honolulu. Received March 24, 1966.

- | | |
|--------------------------------|-------------------|
| 312800. 'Barbados Whitesport'. | 312802. 247 B. |
| 312801. 'Fidji'. | 312803. H-382915. |

312800 to 312808—Continued

312804. H-483166.

312807. H-615888.

312805. H-609924.

312808. H-615898.

312806. H-609964.

312809 to 312811. *MALUS SYLVESTRIS* Mill. Rosaceae. **Apple.**

From Italy. Budsticks presented by the Instituto di Coltivazioni Arboree, Torino. Received March 28, 1966.

312809. No. 11C. (Bismark × Astracan). Early ripening.

312810. No. 31B. (Golden Delicious × Astracan). Early ripening.

312811. No. 35F. (Golden Delicious × Johnathan). Recently patented as 'Goldjon Carlone'. Ripens slightly earlier than Golden Delicious.

312812. *ONOSMODIUM MOLLE* Michx. Boraginaceae.

From the United States. Seeds collected by R. E. Perdue, Jr., agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered March 28, 1966.

Col. No. 4012. Depressions in dry open field along Highway 6 opposite Golden, Jefferson County, Colo. Coarse annual 1 to 2 feet high; fruit white.

312813. *ANCHUSA CAPENSIS* Thunb. Boraginaceae.

From the United States. Seeds purchased in May, 1957, from Herbst Brothers, New York. Numbered March 28, 1966.

Hairy biennial, to 45 cm. high.

312814. *ECHINACEA ANGUSTIFOLIA* DC. Compositae.

From the United States. Seeds collected by J. H. Williams, Department of Agronomy, University of Nebraska, Lincoln. Numbered March 28, 1966.

Erect perennial herb, 10-50 cm. high, heads large.

312815. *HELICHRYSUM BRACTEATUM* (Vent.) Willd. Compositae.

From the United States. Seeds purchased from Harry E. Saier, Dimondale, Mich. Numbered March 28, 1966.

Stout annual, to 1 meter high.

312816. *ISATIS TINCTORIA* L. Cruciferae.

From the United States. Seeds collected by A. S. Barclay, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered March 28, 1966.

Col. No. 1744. Along highway 395, 33 miles north of Alturas, Modoc County, Calif. Erect annual herb, 50-90 cm. high; excellent characteristics of habit, seed production and retention.

312817. *ERUCASTRUM STRIGOSUM* (Thunb.) Sch. Cruciferae.

From South Africa. Seeds collected by A. S. Barclay, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered March 28, 1966.

Col. No. 18819. Worcester, Cape Province. Elevation 2,000 feet. Sandy soil along railroad tracks. Winter-spring annual, upright spreading.

312818. *HELENIUM MICROCEPHALUM* DC. Compositae.

From Mexico. Seeds collected by H. S. Gentry and A. S. Barclay, agricultural explorers, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered March 28, 1966.

Col. No. 20111. Four miles north of Saltillo on Route 56, Coahuila. Erect annual herb to 1.5 meters high; flowers yellow. Good seeder.

312819 and 312820.

From Pakistan. Seeds presented by Gordon College Herbarium, Rawalpindi.
Public Law 480 Project A17-CR-5. Numbered March 28, 1966.

312819. SAUSSUREA CANDICANS C. B. Clarke Compositae.

Tall, erect herb; presumably annual.

312820. SISYMBRIUM ALLIARIA Scop. Cruciferae.

Col. No. 1628. Biennial to 120 cm. high.

312821 to 312827.

From Spain. Seeds presented by Instituto Nacional de Investigaciones Agronomicas, Madrid. Public Law 480 Project E25-CR-11. Numbered March 28, 1966.

312821. CEPHALARIA LEUCANTHA Schrad. Dipsacaceae.

Annual with good plant habit; heavy seeder.

312822. CHRYSANTHEMUM VISCIDI-HIRTUM Thellung Compositae.

Annual or perennial herb.

312823. CLEONIA LUSITANICA L. Labiatae.

Annual herb, stems simple or branched above the base, inflorescence dense.

312824. CREPIS VESICARIA L. ssp. TARAXACIFOLIA Compositae.

Annual or biennial herb, to 80 cm. high.

312825. EUPHORBIA LATHYRUS L. Euphorbiaceae.

Annual to 3 feet high.

312826. LAMIUM PURPUREUM L. Labiatae.

Annual herb, 10-30 cm. high. Flowers in axillary whorls.

312827. SIDERITIS INCANA L. Labiatae.

Perennial herb, 40-60 cm. high. Flowers in whorls.

312828 to 312835.

From Turkey. Seeds presented by Department of Agronomy, College of Agriculture, University of Ankara, Ankara. Public Law 480 Project A22-CR-1. Numbered March 28, 1966.

312828. ANCHUSA HYBRID Tenore Boraginaceae.

Biennial herb 40-50 cm. high.

312829. EUPHORBIA TINCTORIA Boiss. in DC. Euphorbiaceae.

Col. No. 1603. Erect, many-stemmed perennial, 30-50 cm. high. Flowers yellow.

312830. GUNDELIA TOURNEFORTII L. Compositae.

Perennial herb, 40-50 cm. high.

312831. JURINEA ANATOLICA Boiss. Compositae.

Perennial herb, 50-70 cm. high.

312832. ONOBRYCHIS CAPUT-GALLI (L.) Lam. Leguminosae.

Col. No. 1153. Ascending annual herb, 20-40 cm. high.

312833. PELTARIA ANGUSTIFOLIA DC. Cruciferae.

Col. No. 716. Biennial to 120 cm. high.

312834. SCABIOSA sp. Dipsacaceae.

Col. No. 1306. Erect annual herb, 40-60 cm. high.

312828 to 312835—Continued

312835. *XERANTHEMUM ANNUUM* L. Compositae.

Annual herb.

312836 to 312841.

From Uruguay. Seeds presented by Facultad de Agronomía, Laboratorio de Botanica, Montevideo. Public Law 480 Project A9-CR-3. Numbered March 28, 1966.

312836. *BRIZA SUBARISTATA* Lam. Gramineae.

Col. No. 4323. Perennial grass, producing an abundance of seed.

312837. *CESTRUM PARQUI* L'Her. Solanaceae.

Shrub to 1.5 meters high.

312838. *ERYNGIUM NUDICAULE* Lam. Umbelliferae.

Col. No. 3981. Perennial herb; good seeder.

312839. *SCHLECHTENDALIA LUZULAEFOLIA* Less. Compositae.

Col. No. 4150. Erect perennial to 70 cm. high; large flower heads borne terminally.

312840. *STENACHAENIUM CAMPESTRE* Baker Compositae.

Col. No. 4130. Erect annual herb 5 to 40 cm. high; good seeder.

312841. *STENACHAENIUM MACROCEPHALUM* Benth.

Col. No. 4232. Erect annual, to 1.2 meters high; heads in terminal cymes; good seeder.

312842 and 312843.

From Yugoslavia. Seeds presented by Biotechnical Faculty, Ljubljana.

Public Law 480 Project E30-CR-2. Numbered March 28, 1966.

312842. *ARABIS TURRITA* L. Cruciferae.

Col. No. 1157. Robust biennial herb, 30-70 cm. high.

312843. *CREPIS AUREA* Reichb. Compositae.

Col. No. 1017. Erect annual herb, 10-30 cm. high.

312844. SIGESBECKIA GLABRESCENS (Makino) Makino Compositae.

From Korea. Seeds presented by College of Agriculture, Seoul National University, Suwon. Public Law 480 Project A13-CR-1. Numbered March 28, 1966.

Erect annual herb, 35 to 100 cm. high; heads many.

312845 to 312849.

From Sweden. Seeds obtained from Swedish Seed Association, Svalof. Numbered March 28, 1966.

312845 to 312847. *BRASSICA CAMPESTRIS* L. Cruciferae.

Summer turnip rape.

312845. Swedish No. 65-3209.

312846. Swedish No. 65-3210.

312847. Swedish No. 65-3211.

312848 and 312849. *BRASSICA HIRTA* Moench Cruciferae. White mustard.

312848. Swedish No. 65-3153.

312849. Swedish No. 65-3154.

312850 to 312853.

From Ethiopia. Seeds collected by R. E. Perdue, Jr., agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered March 28, 1966.

312850. *VERNONIA HYMENOLEPIS* A. Rich. Compositae.

Col. No. 6409. Seven km. east of Jimma, Kaffa Province. Perennial shrub to 8 feet high; slender, unbranched except in upper portions; flowers lavender.

312851. *VERNONIA KOTSCHYANA* Sch. Bip. ex Walp.

Col. No. 6441. Twenty-one km. north of Adamitulu, Shoa Province. Perennial, 3 to 5 feet high; many stems from base.

312852. *VERNONIA PAUCIFLORA* Less.

Col. No. 6333. Seven km. southeast of Harar, Haraze Province. Weedy perennial to 4 feet high.

312853. *VERNONIA* sp.

Col. No. 6550. No data.

312854 to 312863.

From Fiji. Cuttings presented by the South Pacific Sugar Mills Limited, Lautoka. Received March 29, 1966.

312854 and 312855. *IMPERATA CONFERTA* Gramineae.

312854. 'Fiji 36'.

312855. 'Fiji 71'.

312856 to 312863. *SACCHARUM* (hybrid). Gramineae.

Sugarcane.

312856. 'Fiji 13'.

312860. 'Fiji 61'.

312857. 'Fiji 46'.

312861. 'Fiji 63'.

312858. 'Fiji 47'.

312862. 'Fiji 64'.

312859. 'Fiji 60'.

312863. 'Woden'.

312864. *FRAGARIA VESCA* L. Rosaceae. **European strawberry.**

From France. Plants presented by Andre Marionnet, Soings-en-Sologne. Received March 29, 1966.

'Macherauch's Marieva'.

312865 to 312881.

From Australia. Seeds presented by the Department of Agriculture, Division of Horticulture, Sydney. Received March 30, 1966.

312865 to 312880. *MICROCITRUS AUSTRALASICA* (F. Muell.) Swingle Rutaceae.

Clones from Harry Brothers, North Arm Murwillumbah.

312865. No. 213.

312869. No. 217.

312866. No. 214.

312870. No. 218.

312867. No. 215.

312871. No. 219.

312868. No. 216.

Clones from L. Chilcott, North Arm Murwillumbah.

312872. No. 220.

312874. No. 222.

312873. No. 221.

312875. No. 223.

312865 to 312881—Continued**312865 to 312880—Continued**

Clone from G. Harry, North Arm Muwillumbah.

312876. No. 224.

Clone from Cupitt Reserve Creek, Murwillumbah.

312877. No. 225.

Clone from D. Guinea, Eungella.

312878. No. 226.

Clones from A. Pendergast, Murwillumbah.

312879. No. 227.**312880.** No. 228.**312881.** *MICROCITRUS AUSTRALIS* (Planchon) Swingle

No. 229. Clone from Mrs. Hall, Murwillumbah.

312882 and 312883. *CYPERUS ESCULENTUS* L. Cyperaceae.**Chufa.**

From Ghana. Tubers presented by the Crops Research Institute, Ghana Academy of Sciences, Bunso via Bosuso. Received March 30, 1966.

312882. Atadwe. Collected by M. A. Adansi at Aduhemah near Kwesihu; elevation 1,503 feet.**312883.** Atadwe. Collected by M. A. Adansi at Aduhemah near Abetifi; elevation 2,050 feet.**312884.** *VICIA HYBRIDA* L. Leguminosae.

From Italy. Seeds presented by Instituto Botanico Dell Universita, Siena. Received March 31, 1966.

312885 to 312901.

From Argentina. Seeds presented by Instituto Nacional de Tecnologia Agropecuaria, Presidencia Roque Saenz Pena (Chaco). Received March 31, 1966.

312885. *AXONOPUS PURPUSII* (Mez) Chase Gramineae.**312886.** *BRIZA SUBARISTATA* Lam. Gramineae.**312887.** *BRIZA UNIOLAE* (Nees) Steud.**312888.** *HORDEUM COMPRESSUM* Griseb. Gramineae.**312889.** *LEPTOCHLOA CHLORIDIFORMIS* (Hack.) Parodi Gramineae.**312890.** *PANICUM ADSPERSUM* Trin. Gramineae.**312891.** *PANICUM DICHOTOMIFLORUM* Michx.**312892.** *PASPALUM ALCALINUM* Mez Gramineae.

'Gramilla de canada'.

312893. *PASPALUM CONJUGATUM* Berg

'Pasto amargo'.

312894. *PASPALUM DILATATUM* Poir.

'Pasto miel'.

Dallisgrass.**312895.** *PASPALUM NOTATUM* Fluegge

'Pasto horqueta'.

Bahiagrass.**312896.** *PASPALUM Plicatulum* Michx.

'Pasto cadena'.

Brownseed paspalum.

312885 to 312901—Continued

312897. *PASPALUM SIMPLEX* Morong
 312898. *PHASEOLUS ADENANTHUS* G. Meyer Leguminosae.
 312899. *PHASEOLUS BRACTEATUS* Nees & Mart.
 312900. *PHASEOLUS ERYTHROLOMA* Mart.
 312901. *VICIA GRAMINEA* J. E. Smith Leguminosae.

**312902. BRASSICA OLERACEA var. GEMMIFERA DC. Cruciferae.
Brussels sprouts.**

From the Netherlands. Seeds presented by Joh. Kats, C. Azn., Numansdorp.
 Received March 31, 1966.

'Roem van Kloosterburen'. Early selection.

**312903. BRASSICA CAMPESTRIS L. Cruciferae.
Summer turnip rape.**

From Poland. Seeds presented by Institute of Soil Science and Plant Cultivation, Poznan, through R. L. Mitchell, Iowa State University, Ames, Iowa. Received March 31, 1966.

312904. ANDROPOGON cf. MICROSTACHYUS Desv. Gramineae.

From Colombia. Seeds collected by W. T. Atkinson, Department of Agriculture, Sydney, New South Wales. Received March 31, 1966.

Col. No. A-1717. Collected 33 miles from Bogota on road to Villavicencio. Elevation 7,900 feet.

312905. DIGITARIA VIOLASCENS Link Gramineae.

From Ecuador. Seeds collected by W. T. Atkinson, Department of Agriculture, Sydney, New South Wales. Received March 31, 1966.

Col. No. A-1496. Collected 140 miles from Quito on road to Santa Dominica. Elevation 2,400 feet.

312906 to 313066.

From the Union of Soviet Socialist Republics. Seeds presented by All Union Institute of Plant Industry, Leningrad and Kuban Experiment Station. Numbered April 4, 1966.

312906 to 312909. ONOBRYCHIS ALTISSIMA Grossh. Leguminosae.

312906. No. 1145. From Armenia.

312907. No. 1148. From Azerbaijan.

312908. No. 30076. From Georgia.

312909. No. 30077. From Georgia. Mass selection No. 1.

312910 to 312930. ONOBRYCHIS ARENARIA DC. Sandy esparcet.

312910. No. 9793. 'Sandy 1251'. From the Ukraine.

312911. No. 10111. From Kursk.

312912. No. 10112. From Kursk.

312913. No. 10115. From Kursk.

312914. No. 17311. 'Sandy Improved'. From Kazakhstan.

312915. No. 19579. From Kurgan.

312916. No. 19708. 'Omsk 1517'. From Omsk.

312917. No. 22929. From the Ukraine.

312918. No. 24145. From Kursk.

312906 to 313066—Continued**312910 to 312930—Continued**

312919. No. 25769. 'Sandy 1251'. From Kazakstan.
 312920. No. 26675. 'Kinelsk 828'. From Kuibyshev.
 312921. No. 26710. 'Sandy Improved'. From Kazakstan.
 312922. No. 27276. 'Sandy 1251'. From Voronezh.
 312923. No. 27433. Hybrid. From the Ukraine.
 312924. No. 28271. 'Sandy 21'. From Bashkir.
 312925. No. 28890. 'Sandy 1251'. From Kazakstan.
 312926. No. 29627. 'Hybrid 12'. From the Ukraine.
 312927. No. 29628. 'Gssyk-Hulsk'. From Kirghizia.
 312928. No. 29652. 'Sandy 3274'. From Novosibirsk.
 312929. No. 29659. 'Caucasian Hybrid'. From Krasnoyarsk.
 312930. No. 30004. 'Sandy Pavlov'. From Voronezh.

312931 and 312932. ONOBRYCHIS BIEBERSTEINII Sirjaev

312931. No. 30082. From Armenia.
 312932. No. 32853. From Georgia.

312933. ONOBRYCHIS HAJASHANA Grossh.

No. 16144. From Armenia.

312934. ONOBRYCHIS IBERICA Grossh.

No. 30072.

312935 to 312944. ONOBRYCHIS INERMIS Stev.

312935. No. 9630. From Krasnodar.
 312936. No. 10489. From Krasnodar.
 312937. No. 11436. From Stavropol.
 312938. No. 16290. From Krasnodar.
 312939. No. 16537. From Stavropol.
 312940. No. 16555. From Stavropol.
 312941. No. 18125. From Stavropol.
 312942. No. 18804. From Krasnodar.
 312943. No. 23989. From Stavropol.
 312944. No. 24175. From Krasnodar.

312945. ONOBRYCHIS OXYDONTA Boiss. & Huet

No. 32856. From Azerbaijan.

312946 and 312947. ONOBRYCHIS PETRAEA Desv.

312946. No. 16458. From Stavropol.
 312947. No number. From Stavropol.

312948 to 312972. ONOBRYCHIS TANAITICA Spreng.

312948. No. 28467. From Krasnodar.
 312949. No. 28467. 'Donian'. From Krasnodar.
 312950. No. 28468. From Krasnodar.
 312951. No. 29212. From Krasnodar.

312906 to 313066—Continued**312948 to 312972—Continued**

- 312952. No. 29982. From Kabardia.
- 312953. No. 29983. From Stavropol. 1960.
- 312954. No. 29983. From Stavropol. 1965.
- 312955. No. 29983. (0-35294). From Stavropol.
- 312956. No. 29983. (0-35295). From Stavropol.
- 312957. No. 29985. From Krasnodar.
- 312958. No. 29986. From Kabardia.
- 312959. No. 30069. From Stavropol.
- 312960. No. 34335. From Daghestan.
- 312961. No. 0-46524. From Krasnodar.
- 312962. No. 0-46527. From Stavropol.
- 312963. No. 0-46528. From Stavropol.
- 312964. No. 0-46529. From Stavropol.
- 312965. No. 0-46530. From Kabardino-Balkar.
- 312966. No. 0-46531. From Checheno Yugushetia.
- 312967. No. 0-46532. From Daghestan.
- 312968. Individual unnumbered sample.
- 312969. Individual unnumbered sample.
- 312970. Individual unnumbered sample.
- 312971. Individual unnumbered sample.
- 312972. Individual unnumbered sample.

312973 to 313044. ONOBRYCHIS TRANSCAUCASICA Grossh.

- 312973. No. 4854. From Azerbaijan.
- 312974. No. 5078. From Armenia.
- 312975. No. 5162. From Azerbaijan.
- 312976. No. 9696. 'North Caucasian'. From Krasnodar.
- 312977. No. 11684. Originally from Iran.
- 312978. No. 11732. From Armenia.
- 312979. No. 11804. From Armenia.
- 312980. No. 14380. Originally from Turkey.
- 312981. No. 14381. Originally from Turkey.
- 312982. No. 15143. From Armenia.
- 312983. No. 15146. 'Sisiansk'. From Armenia.
- 312984. No. 16608. From Azerbaijan.
- 312985. No. 16609. From Armenia.
- 312986. No. 16611. 'Crimea 36'. From Crimea.
- 312987. No. 16612. From Armenia.
- 312988. No. 16614. From Armenia.
- 312989. No. 16615. 'Sisiansk'. From Armenia.
- 312990. No. 16898. 'Nahichevansk'. From Azerbaijan.

312906 to 313066—Continued**312973 to 313044—Continued**

312991. No. 16899. From Azerbaijan.
312992. No. 16913. 'Ahalkalansk'. From Georgia.
312993. No. 16915. From Georgia.
312994. No. 17154. From Armenia
312995. No. 17158. From Armenia.
312996. No. 17394. 'Ahalkalaksk'. From Georgia.
312997. No. 17725. From Georgia.
312998. No. 18248. From Armenia.
312999. No. 18249. 'Sisiansk'. From Armenia.
313000. No. 18251. From Armenia.
313001. No. 18254. From Armenia.
313002. No. 18257. From Armenia.
313003. No. 18261. 'Martuninsk'. From Armenia.
313004. No. 18262. 'Martuninsk'. From Armenia.
313005. No. 19514. From Azerbaijan.
313006. No. 19515. 'Aznihi-74'. From Azerbaijan.
313007. No. 19516. From Azerbaijan.
313008. No. 19519. From Azerbaijan.
313009. No. 19871. 'Martuninsk'. From Armenia.
313010. No. 20152. 'Sisiansk'. From Armenia.
313011. No. 24152. 'Leninskansk'. From Armenia.
313012. No. 24247. From Armenia.
313013. No. 24387. 'Lakankansk 1238'. From the Ukraine.
313014. No. 26097. 'Vishnevsk'. Originally from Czechoslovakia.
313015. No. 26592. 'Milintinsk 2'. From Uzbekistan.
313016. No. 26766. 'Lakavkazsk 85/1'. From Voronezh.
313017. No. 26770. 'Lakavkazsk 87/1'. From Voronezh.
313018. No. 29627. 'Talinsk'. From Armenia.
313019. No. 29988. 'Hybrid'. From the Ukraine.
313020. No. 30075. From Georgia.
313021. No. 30078. 'Mass Selection No. 2'. From Georgia.
313022. No. 30080. 'Ahalkalansk'. From Georgia.
313023. No. 30084. From Armenia.
313024. No. 20109. 'Karabalyksk 1314'. From Kazakstan.
313025. No. 30618. 'Baltasim F'. Originally from Hungary.
313026. No. 31078. 'Pokrovsk 56'. From Kirghizia.
313027. No. 31792. 'Fergansk'. From Uzbekistan.
313028. No. 31796. 'Nezlobinsk'. From Stavropol.
313029. No. 32854. From Azerbaijan.
313030. No. 32855. From Georgia.

312906 to 313066—Continued

312973 to 313044—Continued

313031. No. 27442. From Azerbaijan.
 313032. No. 27711. 'Kubansk 3'. From Krasnodar.
 313033. No. 27734. 'Azuihi-74'. From Azerbaijan.
 313034. No. 27735. 'Azuihi-18'. From Azerbaijan.
 313035. No. 28629. 'Sisiansk'. From Armenia.
 313036. No. 28630. From Armenia.
 313037. No. 28631. From Armenia.
 313038. No. 28632. From Armenia.
 313039. No. 28633. From Armenia.
 313040. No. 28646. 'Ahalkalaksk'. From Georgia.
 313041. No. 28648. 'North Caucasian'. From Rostov.
 313042. No. 29127. 'Ahalkalaksk'. From Georgia.
 313043. No. 29191. 'Nahichevansk'. From Nakhickeva.
 313044. No. 29626. 'Leninokansk (Sisiansk 34)'. From Armenia.

313045. ONOBRYCHIS VASSILCZENKOI Grossh.

No number. From Stavropol.

313046 to 313066. ONOBRYCHIS VICIFOLIA Scop.

Sainfoin.

313046. No. 8154. Originally from Spain.
 313047. No. 9790. Originally from Germany.
 313048. No. 10002. 'Ziumineck'. From the Ukraine.
 313049. No. 11217. Originally from Poland.
 313050. No. 13403. From the Ukraine.
 313051. No. 16303. Originally from Switzerland.
 313052. No. 16519. From Stavropol.
 313053. No. 19571. From the Ukraine.
 313054. No. 22361. From Krasnodar.
 313055. No. 22363. From Krasnodar.
 313056. No. 24143. Originally from Norway.
 313057. No. 24151. 'Ukranian 57/57'. From the Ukraine.
 313058. No. 25767. From Kirghizia.
 313059. No. 27434. Originally from Germany.
 313060. No. 28370. From Moldavia.
 313061. No. 28651. 'Poltava 553'. From the Ukraine.
 313062. No. 29014. 'Artemovsk'. From the Ukraine.
 313063. No. 30253. From Estonia.
 313064. No. 30617. 'Italian'. Originally from Italy.
 313065. No. 31797. 'Dnepropetrovsk'. From the Ukraine.
 313066. No. 31886. Originally from Bulgaria.

313067. CEDRUS LIBANII A. Rich. Pinaceae.

From the Netherlands. Plants presented by F. J. Grootendorst, Boskoop.
 Received April 4, 1966.

'Stenocoma'.

313068 to 313073. SACCHARUM (hybrid). Gramineae.**Sugarcane.**

From the Republic of South Africa. Cuttings presented by the South African Sugar Association, Mount Edgecombe, Natal. Received April 4, 1966.

313068. N.51/168.

313071. N.55/257.

313069. N.51/539.

313072. N.55/805.

313070. N.53/216.

313073. N.56/1472.

313074 to 313078. ORYZA SATIVA L. Gramineae.**Rice.**

From Chile. Seeds presented by University of Concepcion, Experiment Station, Chillan. Received April 7, 1966.

Selections from 'Rexoro' × 'Bozu'.

313074. 136-1-3.

313077. 298-1.

313075. 138-1-1.

313078. 308-1-2.

313076. 139-1-1.

313079. GOSSYPIUM sp. Malvaceae.

From Mexico. Seeds collected by O. F. Francke, Mexico, D. F. Received April 7, 1966.

Paso del Toro, Veracruz. Elevation 20 meters. Bush to 15 feet high; branches many. Flowers small, bright yellow. Five-lock bolls.

313080 to 313084.

From Great Britain. Seeds presented by Royal Horticultural Society Gardens, Wisley, Ripley, Surrey, England. Received April 7, 1966.

313080. CYTILSUS ALBUS Hacquet Leguminosae.

313081. GAULTHETTYA × WISLEYENSIS (Marchant) Rehd. Ericaceae.

313082. PINUS GRIFFITHII M'Clell. in Griffith Pinaceae.

313083. RHODODENDRON LITIENSE Balf. & Forr. Ericaceae.

313084. RHODODENDRON PLANETUM I. B. Balf.

313085 to 313090.

From Denmark. Seeds presented by the Botanical Garden, Copenhagen. Received April 8, 1966.

313085. CYCLAMEN AFRICANUM Boiss. & Reut. Primulaceae.

313086. CYCLAMEN BALEARICUM Willk.

313087. CYCLAMEN GRAECUM Link.

313088. CYCLAMEN LIBANOTICUM Hildebr.

313089. CYCLAMEN PERSICUM Mill.

Persian cyclamen.

313090. CYCLAMEN PSEUD-IBERICUM Hildebr.

313091. LUPINUS ANGUSTIFOLIUS L. Leguminosae.**Bitter lupine.**

From the Republic of South Africa. Seeds presented by Stellenbosch University, Cape Province through the Division of Seed Control, Agricultural Technical Services, Pretoria. Received April 8, 1966.

S.E. Blue No. 1.

313092 to 313095. TRITICUM AESTIVUM L. Gramineae.

From Brazil. Seeds presented by Departamento de Pesquisa e Experimentacao Agropecuaria, Porto Alegre. Received April 8, 1966.

313092 to 313095—Continued

313092. 'Carazinho'.

313094. 'Preludio'.

313093. 'Curitiba'.

313095. 'Vila Velha'.

313096. TRITICUM AESTIVUM L. Gramineae.

From Cyprus. Seeds presented by Ministry of Agriculture and Natural Resources, Nicosia. Received April 8, 1966.

'Kyperounda'.

313097 and 313098.

From Ireland. Seeds presented by J. J. Brady, Department of Agriculture, Dublin. Received April 8, 1966.

313097. HORDEUM DISTICHON L. Gramineae.

'Beorna'.

313098. TRITICUM AESTIVUM L. Gramineae.

'Quern'.

313099 to 313101.

From Germany. Seeds presented by Heine-Peragis, Getreidezucht, Hanover. Received April 8, 1966.

313099. HORDEUM DISTICHON L. Gramineae.

'Ammer'.

313100 and 313101. TRITICUM AESTIVUM L. Gramineae.

313100. 'Fälke'.

313101. 'Kolibri'.

313102 to 313109. TRITICUM AESTIVUM L. Gramineae.

From Colombia. Seeds presented by Rockefeller Foundation, Bogota. Received April 8, 1966.

313102. 'Barcino Candelario'.

313106. 'Menkemen'.

313103. 'Cana Arroz'.

313107. 'Narino'.

313104. 'Fr-K.AD-Gabo'.

313108. 'Toca'.

313105. 'Kt-Rio Negro'.

313109. 'Tres Granos'.

313110 and 313111. HORDEUM DISTICHON L. Gramineae.

From Sweden. Seeds presented by Plant Breeding Institute, Landskrona. Received April 8, 1966.

313110. Weibulls No. 5897.

313111. Weibulls No. 5923.

313112. HORDEUM DISTICHON L. Gramineae.

From Great Britain. Seeds presented by Plant Breeding Institute, Cambridge. Received April 8, 1966.

'Spratt'.

313113. HORDEUM DISTICHON L. Gramineae.

From Great Britain. Seeds presented by Elsom's (Spalding) Ltd., Elsom House, Spalding.

'Europa'.

313114. HORDEUM DISTICHON L. Gramineae.

From Germany. Seeds presented by Max Planck Institute, Koln-Vogelsang. 'Ceresia'.

313115. AVENA SATIVA L. Gramineae. Common oats.

From Finland. Seeds presented by Plant Breeding Institute of Kankkija, Tamminsto, Helsingin.

'Hannes'.

313116. ILEX CRENATA Thunb. Aquifoliaceae.

From Great Britain. Plants purchased from Hillier & Sons, Winchester, England. Received April 11, 1966.

'Mariesii'.

313117. VERNONIA sp. Compositae.

From Ethiopia. Seeds collected by R. E. Perdue, Jr., agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered April 11, 1966.

Col. No. 6403. Open hillside above flood plain along Bonga-Wush Wush road, Kaffa Province. Weed to 6 feet, woody perennial; flowers lavender, bracts white.

313118 to 313204. ARACHIS HYPOGAEA L. Leguminosae. Peanut.

From Taiwan. Seeds presented by Taiwan Agricultural Research Institute, Taipei. Received April 11, 1966.

Varieties bred in Taiwan.

Spanish types.	313123.	0006.
313118. 0001.	313124.	0007.
313119. 0002.	313125.	0008.
313120. 0003.	313126.	0009.
313121. 0004.	313127.	0010.
313122. 0005.	313128.	0011.

Virginia types:

313129.	0101.
313130.	0102.

Native varieties of Taiwan.

Spanish types.

313131.	0301.	313142.	0313.
313132.	0302.	313143.	0314.
313133.	0304.	313144.	0316.
313134.	0305.	313145.	0317.
313135.	0306.	313146.	0318.
313136.	0307.	313147.	0319.
313137.	0308.	313148.	0320.
313138.	0309.	313149.	0321.
313139.	0310.	313150.	0322.
313140.	0311.	313151.	0323.
313141.	0312.		

Virginia types.

313152.	0401.	313154.	0403.
313153.	0402.	313155.	0404.

313118 to 313204—Continued

Varieties from Mainland China.

Spanish types.

313156. 0601. 313160. 0605.

313157. 0602. 313161. 0606.

313158. 0603. 313162. 0607.

313159. 0604.

Virginia types.

313163. 0701. 313166. 0704.

313164. 0702. 313167. 0705.

313165. 0703.

Varieties introduced from Japan.

Spanish types.

313168. 0903. 313175. 0917.

313169. 0905. 313176. 0919.

313170. 0907. 313177. 0923.

313171. 0912. 313178. 0924.

313172. 0913. 313179. 0927.

313173. 0915. 313180. 0928.

313174. 0916. 313181. 0932.

Varieties introduced from Ryukyu.

Spanish type.

313182. 1202.

Varieties introduced from Philippines.

Spanish types.

313183. 1501.

313184. 1502.

313185. 1503.

Virginia types.

313186. 1601.

313187. 1602.

Varieties introduced from Vietnam.

Spanish types.

313188. 1801. 313191. 1804.

313189. 1802. 313192. 1805.

313190. 1803. 313193. 1806.

Varieties introduced from Malaysia.

Spanish type.

313194. 2401.

Varieties introduced from Israel.

Spanish types.

313195. 3901.

313196. 3902.

313118 to 313204—Continued

Virginia types.

313197. 4001.

313198. 4002.

Varieties introduced from Dahomey.

Spanish type.

313199. 4501.

Varieties introduced from Congo.

Spanish types.

313200. 5101.

313201. 5102.

Varieties introduced from Cuba.

Spanish type.

313202. 9301.

Varieties introduced from Brazil.

Spanish types.

313203. 9601.

313204. 9602.

313205 to 313545.

From Mexico. Seeds presented by Instituto Nacional de Investigaciones Agrícolas, Mexico, D. F., Numbered April 11, 1966.

313205. *PHASEOLUS ACUTIFOLIUS* A. Gray Leguminosae.

X-174. 9. Mapastepec, Chiapas, 1946. Elevation 100 m.

'Rosa negro'.

313206. *PHASEOLUS AUREUS* Roxb.

Mungbean.

12. A. Crispin, Sinaloa, 1964. 'Mungo verde'.

313207 to 313212. *PHASEOLUS LUNATUS* L.

Lima bean.

313207. X-9023. 105-a. Soyalo, Chiapas. Elevation 1,200 m.

'Patashete'. Black.

Bochil, Chiapas. Elevation 1,200 m.

313208. X-9069. 196-a. 'Patashete'.

313209. X-9071. 198-a. 'Patashete'. Buff, black.

313210. X-9072. 199-a. 'Patashete'. Black.

313211. X-9074. 201-a. 'Negro Azcatlan'. Black.

313212. X-9075. 202-a. 'Blanco de Azcatlan'. White.

313213 to 313543. *PHASEOLUS VULGARIS* L.

Common bean.

State of Aguascalientes. Place and year of original collection indicated where known.

313213. Exposicion E.N.A. 2-A. 'Garrapata'. Gray coffee colored.

313214. Exposicion E.N.A. 4. 'Bayo'. Rincon de Romos, 1948. Elevation 1,950 m.

313215. Exposicion E.N.A. 6. 'Apetito'. Pabellon, 1948. Elevation 1,950 m. Light purple.

313205 to 313545—Continued

313213 to 313543—Continued

313216. Exposicion E.N.A. 8. 'Burro-bola'. Rincon de Romos, 1948. Elevation 1,950 m. Mottled.
313217. Exposition E.N.A. 9. 'Singuino'. Rincon de Romos, 1948. Elevation 1,950 m. Purple.
313218. C. Exp. Pab. 16. 1948. 'Panza de, E puerco'. Pearl gray.
313219. C. Exp. Pab. 19. 'Guero'. Elevation 1,950 m. White.
313220. C. Exp. Pab. 24. 1948. 'Bayo tepetate'. Elevation 1,950 m. Buff.
313221. C. Exp. Pab. 27(27-1). 1948. 'Pato blanco'. Elevation 1,950 m. Dark buff.
313222. X-2535. 29. 'Garrapata'. Aguascalientes, 1946. Elevation 1,870 m. Mottled.
313223. X-2535. 36. 'Cuarenteno'. Aguascalientes. Elevation 1,870 m. Rosy yellow.
313224. X-2535. 37. 'Garrapata'. Aguascalientes. Elevation 1,870 m. Coffee colored.
313225. X-2535. 40. 'Garbancillo'. Aguascalientes. Elevation 1,870 m. Yellowish.
313226. X-2535. 44. 'Canario'. Aguascalientes. Elevation 1,870 m. Dirty white.
313227. X-2535. 45. 'Negro'. Aguascalientes. Elevation 1,870 m. Black.
313228. X-2535. 48. 'Garrapata'. Aguascalientes. Elevation 1,870 m. Coffee colored.
313229. X-2535. 49. 'Bayo gordo'. Aguascalientes, 1952. Elevation 1,870 m. Buff.
313230. X-2535. 50. 1952. 'Negro'. Elevation 1,870 m.
313231. X-2535. 51. 'Bayo chico'. Rincon de Romos, 1952. Elevation 1,950 m. Buff.
313232. X-2535. 52. 'Canelo'. Rincon de Romos, 1952. Elevation 1,950 m. Lavender.
313233. X-2535. 53. 'Cuarenteno'. Rincon de Romos, 1952. Elevation 1,950 m. Buff.
313234. X-2535. 54. 'Garrapata'. Aguascalientes, 1952. Elevation 1,870 m. Mottled.
313235. X-2535. 56. 'Canelo'. Aguascalientes, 1952. Elevation 1,870 m. Lavender.
313236. X-2535. 58. 'Apetito'. San Francisco de Montero. Purple.
313237. X-2535. 59. 'Manzano'. San Francisco de Montero. Mottled.
313238. X-9110. 63-A. 'Cacahuate'. Aguascalientes, 1954. Elevation 1,870 m. Rose red.
313239. X-9110. 63-B. 'Cacahuate'. Aguascalientes, 1954. Elevation 1,870 m. Mixed.
313240. B.C.8-A. Miraflores, Baja California. Sulphur colored. State of Chiapas. Place and year of original collection indicated where known.
313241. 2-A-1, 2-A-3-4. 'Veracruzano'. Colonio Tolan. Elevation 200 m. Dusky black.

313205 to 313545—Continued

313213 to 313543—Continued

313242. 3-A. 'Bombon'. Colonio Tolan, 1946. Elevation 200 m. Opaque black.
313243. 5. 1950.
313244. X-639. 8. 'Negro'. El Retiro, 1950. Elevation 1,400 m. Dusky black.
313245. X-1084. 15. 'Blanco'. Comitan. Elevation 1,635 m. White.
313246. X-1030. 29. 'Negro chimbo'. Acala. Dusky black.
313247. X-1068. 31. 'Tsajal-chelnek'. San Cristobal de Las Casas, originally from Chiapilla. Elevation 550 m. Red.
313248. X-1052. 37. 'Palmero'. Totolapa, 1946. Elevation 600 m. Dusky black.
313249. X-1024. 41. 'Coloradito'. Acala, 1948. Elevation 600 m. Rose.
313250. X-1140. 58. 'De suela'. Escuintla, 1950. Elevation 300 m. Dusky black. Bush type.
313251. X-1076. 64. 'De vega'. Comitan, 1950. Elevation 1,635 m. Lavender.
313252. X-1022. 65. Acala. Elevation 600 m. Dusky black.
313253. X-1351. 73. 'Rojo obscuro'. San Carlos, 1950. Elevation 1,020 m.
313254. X-1399. 84. 'De suelo negro'. Altamira, 1950. Elevation 630 m. Dusky black. Bush type.
313255. 104. 'Negro'. S.E. de Comitan, 1952. Elevation 1,635 m. Dusky black.
313256. Desc-8 X. 109. 'Mezclado'. Teopisca, 1950. Elevation 1,500 m. Dark red.
313257. Desc-14 X. 115. Teopisca, 1950. Elevation 1,500 m. Dark red.
313258. X-8993. 120. 'De vara'. San Cristobal de Las Casas. Elevation 1,200 m. Black.
313259. X-8997. 124-a. 'Rosado'. San Cristobal de Las Casas. Red.
313260. X-8998. 125-a. 'Rosa blanco'. San Cristobal de Las Casas. White.
313261. X-9000. 127. 'Trapichito'. San Cristobal de Las Casas. Dark red.
313262. X-9002. 129-a. 'Blanco'. San Cristobal de Las Casas. Elevation 1,200 m. White.
313263. X-9003. 130-a. 'Rojo bolita'. San Cristobal de Las Casas. Elevation 1,200 m. Red.
313264. X-9006. 133-a. 'Amarillo'. San Cristobal de Las Casas. Elevation 1,200 m. Light brown.
313265. 133-h. 'Amarillo'. San Cristobal de Las Casas. Elevation 1,200 m. Buff.
313266. X-9007. 134-a. 'Frijol-ancho'. San Cristobal de Las Casas. Elevation 1,200 m. Black.
313267. X-9008. 135-a. 'Pinto'. San Cristobal de Las Casas. Elevation 1,200 m. Dark gray.

313205 to 313545—Continued

313213 to 313543—Continued

313268. X-9009. 136-a. 'Votil'. San Cristobal de Las Casas. Elevation 1,200 m. Clear purple.
313269. X-9012. 139-a. 'Colorado'. Ixtapa. Elevation 1,100 m. Red.
313270. X-9014. 141-a. 'Barreton'. Trinitana. Elevation 1,700 m. Brown.
313271. X-9017. 144-a. 'Bayito'. Trinitana. Elevation 1,700 m. Coffee colored.
313272. X-9018. 145. 'Barreton'. Trinitana. Elevation 1,700 m. Buff, black.
313273. X-9022. 149-a. 'Bayo de vega'. San Gregorio. Light red.
313274. X-9025. 152-a. 'Blanco'. Comitan. Elevation 1,500 m. White.
313275. X-9027. 154-a. 'De enredo'. Comitan. Black. Pole type.
313276. X-9036. 163-a. 'De enredo o Vara'. Comitan. Black. Pole type.
313277. X-9039. 166-a. 'Frijol blanco'. Las Margaritas. White.
313278. X-9040. 167-a. 'Barreton'. Las Margaritas. Black.
313279. 169-f. 'Amarillo'. Las Margaritas.
313280. X-9044. 171-a. 'De vara'. Candelaria. Rose colored.
313281. X-9084. 175. 'Patatas hete'. Bochil. Elevation 1,200 m. Black.
313282. X-9070. 197-a. 'Colorado'. Bochil. Red.
313283. X-9080. 207-a. 'Tierra caliente de vara'. Ocozocuatla. Black.
313284. X-9082. 209-a. 'Negro veracruzano de la Frailesca'. Ocozocuatla. Black.
313285. X-9086. 213-a. 'Vaina blanca'. Ocozocuatla. Black.
313286. 217-a.
313287. X-9091. 218-a. 'Colorado de Comitan'. Ocozocuatla. Elevation 1,500 m. Red.
313288. 218-f. 'Colorado de Comitan'. Ocozocuatla. Elevation 1,500 m. Dark buff.
313289. X-9092. 219-a. 'Zinacatan'. Ocozocuatla. Elevation 1,500 m. White.
313290. X-9094. 221-a. Artalapa. Black.
313291. Kaplan, 241. 'Frijol negro'. Tapachula. Black.
- State of Durango. Place and year of original collection indicated where known.
313292. X-2612. 5. Francisco I. Madero, 1950. Elevation 1,950 m. Mouse colored.
313293. 15. Villa Madero, 1952. Elevation 1,960 m. Light buff.
313294. 17-B. Nombre de Dios, 1952. Grayish brown.
313295. 17-C. Nombre de Dios, 1952. Lavender.
313296. 17-D. Nombre de Dios, 1952. Mouse colored.

313205 to 313545—Continued

313213 to 313543—Continued

313297. 17-E. Nombre de Dios, 1952. Light gray.
 313298. 17-G. Nombre de Dios, 1952. White.
 313299. 17-H. Nombre de Dios, 1952. Buff.
 313300. 17-I. Nombre de Dios, 1952. Sulphur colored.
 313301. 19. 'Bayo'. La Sacucedá, 1952. Mouse colored.
 313302. 20. 'Bayo rata'. Durango, 1952. Elevation 1,898 m. Buff colored.
 313303. 21. 'Chapurrado'. Durango, 1952. Elevation 1,898 m. Buff.
 313304. 22. 'Bayo'. Vicente Guerrero, 1952. Elevation 1,898 m. Buff.
 313305. 23. 'Bayo rata'. Guadalupe Victoria, 1952. Mouse colored.
 313306. 24. Ejido de Canatlan, 1952. Buff.
 313307. 25. Puerto Nuevo, 1952. Buff.
 313308. 26. Durango, 1952. Elevation 1,898 m. Buff.
 313309. 27. Canacatlan, 1952. Buff.
 313310. 28. Guadalupe Victoria, 1952. Buff.
 313311. 104. 29. 'Bayo blanco'. Durango, 1952. Elevation 1,898 m. Buff.
 313312. 102. 30. 'Bayo rata'. Durango, 1952. Elevation 1,898 m. Mouse colored.
 313313. 103. 31. 'Bayo rata'. Durango, 1952. Elevation 1,898 m. Mouse colored.
 313314. 107. 32. 'Canario'. Elevation 2,020 m. Sulphur colored.
 313315. 36. 'Amarillo'. Tepehuanes. Elevation 1,900 m. Yellow.
 State of Guanajuato. Place and year of original collection indicated where known.
 313316. 1-A. 'Palacio'. Acambaro. Elevation 1,856 m. Buff.
 313317. 5-A. 'Carniro-b'. Buff garbanzo.
 313318. 10-A. 'Negro'. Celaya. Elevation 1,754 m. Bright black.
 313319. 11-A. 'Aluvia chica'. Celaya. Elevation 1,754 m. White.
 313320. 18. 'Mantequilla'. La Joya. Light buff.
 313321. 24. 'Canario'. El Pintor, 1945. Sulphur colored.
 313322. 27. 'Palacio higuera'. Yuriria, 1947. Light brown.
 313323. 32. 'Palacio bayo'. El Carmen, Salamanca.
 313324. 47. 'Canario'. San Jose Valle, Santiago, 1947. Elevation 1,780 m. Canary yellow.
 313325. 51. 'Apetito'. Barranca de Huerta, 1950. Buff.
 313326. 60. 'Amarillo'. Tierras Negras, Penjamo. Elevation 1,760 m. Yellow.
 313327. 63. 'Caurenteno'. Leon. Elevation 1,809 m. Red.
 313328. 67. 'Negro brill'.
 313329. 68. 'Apetito morado'. El Pintor, Cortazar. Dark coffee colored.
 313330. X-2421. 75. 'Cuarenteno'. Guanajuato, 1950. Elevation 2,000 m. Dull yellow.

313205 to 313545—Continued

313213 to 313543—Continued

313331. X-2455. 87-A. 'Morado'. 5 Kms. Silao (Seleccion) 1950. Elevation 1,777 m.
313332. X-2397. 'Coloradito guinda'. Dolores Hidalgo, 1950. Elevation 1,895 m.
313333. 103. 'Bayo gordo'. San Miguel Allende, 1952. Elevation 1,852 m. Shiny black.
313334. 105. 'Ojo de liebre'. Santa Maria Antillan, 1952. Pinto.
313335. 107. 'Bayo'. Dolores Hidalgo, 1952. Elevation 1,895 m.
313336. 108. 'Bayo'. Atotonilco, 1952.
313337. 22. 109. 'Colombia'. Vista Hermosa, 1952. Elevation 1,750 m. Reddish buff.
313338. 20. 110. 'Ojo de liebre'. Salamanca, 1952. Elevation 1,720 m. Dull buff.
313339. 23. 111. 'Negro'. San Miguel Allende, 1952. Elevation 1,910 m. Shiny black.

State of Guerrero. Place and year of original collection indicated where known.

313340. X-2729. 18. 'De vega'. Tiapenhuala, 1950. Elevation 400 m. Buff.
313341. 27-B. 'Bayo'. Santa Rosa.
313342. 27-C. 'Morado palido'. Santa Rosa.
313343. 29-C. Colon, 1952. Shiny black.
313344. R-185. 'Pardo'. Coahuayutla, 1952. Elevation 290 m. Mottled.
313345. R-185. 66. 'Pan caliente'. Coahuayutla, 1952. Elevation 290 m. Light buff.
313346. R-3. 79. 'Mantequilla'. Tecpan de Galeana, 1952. Elevation 120 m. Light buff.
313347. R-1. 81. 'Huapinol'. Tecpan de Galeana, 1952. Elevation 120 m. Dull black.
313348. X-8986. 84-A. 'Rojito'. Iguala. Dark red.
313349. 87. 'Mantequilla'. Market in Atoyac. Elevation 50 m. Light buff.

State of Hidalgo. Place and year of original collection indicated where known.

313350. X-2816. 6-A. 'Franciscano negro'. E.P.A. Huichapan, 1952. Elevation 1,102 m.
313351. No. 8. No data.
313352. 2826. 14-A. 'Vaquita clara bayo'. E.P.A. Huichapan. Elevation 1,102 m. Grayish black.
313353. 2831. 19-A. 'El moro jaspeado gris'. E.P.A. Huichapan. Elevation 1,102 m. Speckled.
313354. 24-A. 'Garrapata'. Benito Juarez. Dark purple.
313355. 28-A. 'Negro'. Huichapan. Elevation 2,102 m. Shiny black.
313356. 29-A. 'Amarillo'. Benito Juarez. Yellow.
313357. Exp N.A. 39-A. 'Bayo delgado'. Huichapan, 1948. Elevation 2,102 m. Light buff.

313205 to 313545—Continued

313213 to 313543—Continued

313358. Exp. N.A. 40-A. 'Bayo blanquisco'. Huichapan, 1948. Elevation 2,102 m. Buff.
313359. Exp. N.A. 45-A. 'Amarillo'. Sabinita. Yellow.
313360. Exp. N.A. 49-A. 'Vaquita'. Huichapan (mezcla), 1948. Elevation 2,102 m. Dark buff.
313361. 51. 'Garambullo'. Pachuca. Elevation 2,435 m. Dark purple.
313362. 37-B. 'Pinto'. Pachuca, 1952. Elevation 2,370 m. Dark purple.
313363. 37-C. 'Amarillo'. Pachuca, 1952. Elevation 2,370 m. Yellow.
313364. 36. 59. 'Bayo'. Pachuca, 1952. Elevation 2,370 m. Pale yellow.
313365. X-9106. 63-A. 'San Franciscano rosado'. Ixmiquilpan. Black.
313366. 9107. 65-A. 'Cacahuate'. Ixmiquilpan. Creamy red.
State of Jalisco. Place and year of original collection indicated where known.
313367. 4. 'Apetito'. Jalostotitlan, 1945. Elevation 1,535 m. Purple.
313368. 5. 'Tempranillo'. Jalostotitlan, 1945. Light buff.
313369. 6-1. No. data.
313370. 9. Tizapan, 1950. 'Sicileno bola'. Dark buff.
313371. 10. 'Pastilla'. Jalostotitlan. Pale rose.
313372. 13-B. 'Bayo azufrado'. In 1950.
313373. 16. 'Burro bola'. Jalostotitlan, 1945. Light brown.
313374. 18-B. Tizapan, 1950. Dull brown.
313375. 19. 'Garbancillo'. Santa Anita, 1950. Pale yellow.
313376. 20. 'Garbancillo'. Tlaquepaque, 1950. Pale yellow.
313377. 31. 'Mezquitillo'. Tecalitlan, 1948. Sulphur colored.
313378. 32. 'Zamorano'. Yahualica, 1948. Buff.
313379. 34. 'Pastilla'. El Borde Teocaltiche. Mottled purple.
313380. 37. 'Amarillo'. Las Flores. Elevation 1,850 m. Buff.
313381. 41. 'Garbancillo'. Yahualica, 1949. Buff.
313382. 43. 'Mezquitillo'. Zapotiltic, 1950. Yellowish.
313383. 44. 'Mezquitillo'. Zapotiltic, 1950. Pale yellow.
313384. 48. 'Moro'. Tepatitlan, 1950. Darkly mottled.
313385. 49. 'Apetito'. Tuxpan, 1950. Purplish black.
313386. 50. 'Mezquitillo'. Tuxpan, 1950. Yellowish.
313387. 54. 'Bayo delgado'. Tenamaxtlan, 1948. Lightly mottled.
313388. 55. 'Tempranillo'. Lagos, 1948. Elevation 1,880 m. Buff.
313389. 57. 'Blanco'. Lagos, 1948. Elevation 1,880 m. White.
313390. X-2661. 58-B. Km. 165 a Guadalajara, 1950. Elevation 1,600 m. Selection by plant; yellow.
313391. X-2662. 59-B. Jalostotitlan, 1950. Selection by plant; buff.
313392. X-2726. 61. 'Pardo claro'. Guadalajara, 1946. Elevation 1,589 m.

313205 to 313545—Continued

313213 to 313543—Continued

313393. X-2726. 62. 'Amarillo verdoso.' Guadalajara, 1946. Elevation 1,589 m.
313394. 68. 'Ejote'. Guadalajara, 1949. Elevation 1,589 m. Yellow.
313395. 71. 'Blanco'. Guadalajara, 1949. Elevation 1,589 m. White.
313396. 89. 'Bayo.' Guadalajara, 1940. Elevation 1,589 m.
313397. 93. 'Bayo'. Guadalajara, 1950. Elevation 1,589 m.
313398. 112. 'Negro brill'. Lagos, 1950.
313399. 113. 'Bayo'. Ojuelos, 1952.
313400. 115. 'Pardo'. San Jorge, 1952.
313401. 116. Ojuelos, 1952. 'Rosa'.
313402. 117. 'Morado bayo'. Ojuelos, 1952.
313403. 118. 'Negro brill. Ojuelos, 1952.
313404. 125. 'Cacahuate'. Hueyucan, 1952. Red.
313405. 127. 'Blanco'. Hueyucan, 1952. White.
313406. Desc. 32. 128. 'Cafe claro.' El Grullo.
313407. X-33. 129. 'Gris perla'. El Grullo, 1952.
313408. X-34. 130. 'Gris'. El Grullo. Black.
313409. X-9116. 133-A. Guadalajara. Elevation 1,589 m.
313410. 134. 'Bayo'. La Quilella. Elevation 1,940 m.
- State of Mexico. Place and year of original collection indicated where known.
313411. 1. 'Ojo de liebre'. Toluca market, 1950. Elevation 2,675 m. Buff.
313412. 3. 'Blanco'. Toluca market, 1948. Elevation 2,675 m.
313413. 6. 'Blanco'. Toluca market, 1946. Elevation 2,675 m.
313414. 6-A. 'Garbancillo'. Toluca market, 1948. Elevation 2,675 m. White.
313415. 8-A. 'Rosa morado'.
313416. 9-B. 'Amarillo'. Toluca market, 1950. Elevation 2,675 m.
313417. 10. 'Morado pardo'. Toluca market. Elevation 2,675 m. White, black.
313418. 11. Toluca. Elevation 2,675 m. Mixed; buff.
313419. 12. Toluca, 1946. Elevation 2,675 m. Mixed; shiny black.
313420. 14-A. 'Bayo gordo'. Toluca, 1950. Buff.
313421. 15. 'Canario'. In 1950.
313422. 15-A. 'Canario'. Canary yellow.
313423. 16-B. 'Amarillo claro'. Toluca, 1945.
313424. 16-C. 'Morado claro'. Toluca, 1950.
313425. 16-D. 'Bayo cafe'. Toluca, 1947.
313426. 17-A. 'Bayo cafe'. Toluca, 1945.
313427. 19-A. 'Parraleno'. In 1945.
313428. 19-B. 'Pardo'. Toluca. Spotted.

313205 to 313545—Continued

313213 to 313543—Continued

313429. 20. 'Morado claro'. Toluca, 1948.
 313430. 22. 'Bayo claro'. Chalco. Mixture.
 313431. 24. 'Negro opaco'. Chalco market, 1950.
 313432. 25. No data.
 313433. 26-A. 'Bayo cafe'. Chalco market.
 313434. 26-B. 'Bayo rosa'. Chalco market, 1950.
 313435. 38-A. 'Amarillo'. Cuautitlan. Yellow.
 313436. 41. 'Apetito'. Cuautitlan. Buff.
 313437. 45-B. No data.
 313438. 45-C-1. 'Pardo claro'. Chalco.
 313439. 47-A. 'Pardo'. Texcoco market. Elevation 2,216 m.
 313440. 49. 'Amarillo'. Texcoco market, 1945. Elevation 2,216 m.
 313441. 52-A. 'Ojo de liebre'. Chapingo. Elevation 2,240 m.
 313442. 53-A. 'Aluvia chica'. Chapingo. Elevation 2,240 m.
 313443. 72. 'Bayo'. Santa Cruz, 1948.
 313444. 78. 'Negro brill'. Zumpango.
 313445. 87. 'Negro brill'. Mexico-Puebla, Km. 36, 1952.
 313446. 91. 'Capuchino'. Amecameca, 1952. Elevation 2,395 m.
 313447. 38. 92. 'Negro'. Reyes Acuzac, 1952. Elevation 2,210 m.
 Dark buff.
 313448. 8. 93. 'Cafe'. Tizayuca, Texcoco, 1952. Dull black.
 313449. 40. 107. 'Oje de liebre'. Reyes Acuzac, 1952. Elevation 2,210 m.
 Pinto.
 313450. 39. 108. 'Moro'. Reyes Acuzac, 1952. Elevation 2,210 m.
 Dark gray.
 313451. 31. 110. 'Negro'. San M. Totlongo, 1952. Elevation 2,165 m.
 Black.
 313452. 30. 112. 'Garbancillo'. Santa Clara, Cuautitlan, 1952. Elevation 2,170 m. Buff.
 313453. X-9105. 115. 'Canario'. Texcoco. Elevation 2,216 m. Buff.
 313454. Ing. Miranda. 311. Tenancingo, 1965. Elevation 2,100 m.
 Red.
 313455. Miranda. 185. 'Ayocote'. Tlaltenango. Various colors.
 313456. X-9124. 147-A. Pitalcingo. Black.
 313457. X-9192. 149. 'Criollo'. Zacapoaxtla. Elevation 1,500 m.
 Black.

State of Michoacan. Place and year of original collection indicated where known.

313458. 10. 'Bayo'. In 1950.
 313459. 15. 'Mexicano'. Tanaquilla, 1948. Pale rose.
 313460. 16. 'Zaxapeno'. Sahuayo, 1948. Elevation 1,575 m. Buff.
 313461. 28. 'Encerado'. Sahuayo, 1945. Elevation 1,575 m. Gray.
 313462. 30. 'Rosita'. La Goleta, 1948. Lavender.

313205 to 313545—Continued

313213 to 313543—Continued

313463. 33. 'Cacahuate'. Cuitzeo, 1948. Dark buff.
 313464. 38. 'Bolita'. Tocumbo, 1950. Buff.
 313465. 42. 'Mexicano'. Tanhuato, 1950. Lavender.
 313466. 44. 'Mexicano'. Tocumbo, 1950. Very light.
 313467. 47. 'Amapolo'. City Hidalgo, 1947. Pale lavender.
 313468. 48. 'Morado'. Patzcuaro, 1948. Elevation 2,138 m.
 313469. 49. 'Bayo'. Patzcuaro, 1948. Elevation 2,138 m. Brown.
 313470. 56. 'Negro'. Jiquilpan, 1952. Shiny Black.
 313471. Desc. (24) 68. Tuncato, 1949. Elevation 1,600 m.
 313472. 84. 'Alborgon'. Ejido Tabera Tuncato. Elevation 1,600 m.
 Buff.

State of Morelia. Place and year of original collection indicated where known.

313473. 2-A-1. 'Cafe'.
 313474. 9. 'Negro brill'. Cuernavaca, 1952.
 313475. 17. 'Negro opaco'. (Chiapas-3-A). Progreso, 1952.
 313476. F.C.R. 32. 'Crema cafe'.
 313477. F.C.R. 35. 'Negro brill'. Tepalcingo, Morelos.
 313478. F.C.R. 36. 'Negro opaco'. Tepalcingo.

State of Oaxaca. Place and year of original collection indicated where known.

313479. X-784. 9. 'Bayo'. Cuilapan, 1950.
 313480. 14. 'Negro opaco'. Ixtespec. Elevation 100 m. Shiny.
 313481. X-9133. 51. 'Cuarenteno'. Ocotlan. Elevation 1,600 m.
 Buff.
 313482. X-9139. 57-A. 'Amarillo'. Ocotlan. Elevation 1,600 m.
 313483. X-9140. 58. 'Blanco chico'. Ocotlan. Elevation 1,600 m.
 White.
 313484. X-9145. 63-A. 'Negro delgado'. Ejutla. Elevation 1,600 m.
 Black.
 313485. X-9153. 71-A. 'Blanco'. Ixtlan de Juarez.
 313486. X-9154. 72. Ixtlan de Juarez. Thick, opaque black.
 313487. X-9155. 73-A. La Punta. Thin, black.
 313488. 88. Opaque black.

State of Puebla. Place and year of original collection indicated where known.

313489. Gray or spotted.
 313490. 2-A. 'Negro brill'. Tepeaca market 1943. Elevation 2,243 m.
 313491. 8-A. 'Bayo'. Tehuacan market. Elevation 1,696 m. Black.
 313492. 11-C. 'Negro'. Tehuacan, 1946. Elevation 1,696 m. Dull
 black.
 313493. 23-A. 'Sangre loro'. Esperanza, 1945. Elevation 2,454 m.
 Red.

313205 to 313545—Continued

313213 to 313543—Continued

313494. 27-C-1. 'Blanco'. Esperanza mixture. Elevation 2,454 m. Brownish.
313495. 31-B. 'Negro brill'. Tehuacan. Elevation 1,696 m.
313496. X-80. 56-C. 'Ayocote negro'. Zacapoaxtla market, 1947. Elevation 1,800 m.
313497. 84. 'Ayocote'. San Lucas El Grande. Elevation 2,340 m. White, black, purple.
313498. 13. 85. 'Amarillo'. City Serdan, 1952. Elevation 2,450 m. Yellow.
313499. 109. 'Boludo'. El Seco, 1948. Elevation 2,320 m. Shiny black.
313500. 124. 'Ayocote negro'. Palmar de Bravos, 1948. Elevation 2,180 m. Purple, white.
313501. 130. 'Parraleno colorado'. Palmar de Bravos. Elevation 2,180 m. Purple, black.
313502. 132. 'Delgado'. Chiutla de Tapia, 1952. Elevation 1,010 m. Shiny black.
313503. 141-B. Matamoros. Elevation 1,600 m. Mixture.
313504. 150-B. 'Amarillo'. Zacapoaxtla. Elevation 1,500 m. Yellow.
313505. 151-B. 'Mantequilla'. Zacapoaxtla. Elevation 1,500 m. Greenish yellow.
313506. X-9196. 152-A. 'Ayocote negro brill'. Hueyapa, Tlatlauqui. Elevation 1,500 m.
313507. X-9200. 156. 'Moteado'. Tlatlauqui. Elevation 1,500 m. Shiny black.
313508. X-9195. 161-A. 'Calete'. (de Tetelilla) Tlatlauqui. Elevation 1,500 m. Buff.
313509. 165-B. 'Gris'. Zacatlan. Black.
313510. 169. 'Zamorano'. In 1954. Buff.
313511. 175. 'Bayo'. Linton. Tlachichuca, 1956.
313512. 176. 'Amarillo'. Linto. Tlachichuca, 1956.
313513. 181. 'Canario'. Miranda. Santa Ana Xalmimilco, 1956. Elevation 2,300 m.
313514. 182. 'Negro'. Miranda. Tetela de Ocampo. Elevation 2,300 m.
313515. 183. 'Negro'. Miranda. Tlaltenango. Elevation 2,300 m.
313516. 184. 'Bayo'. Miranda. Tlaltenango.
313517. 186. 'Negro'. Miranda. Tlaltenango.
- State of San Luis Potosi. Place and year of original collection indicated where known.
313518. 7. 'Pardo bayo'. San Luis Potosi, 1952. Elevation 1,877 m. Mixed lot.
- State of Sinaloa. Place and year of original collection indicated where known.
313519. 1-A. 'Azufrado'. In 1948. Sulphur colored.
313520. 11. 'Bayo blanco'. A. Crispin, 1964.
- State of Tlaxcala. Place and year of original collection indicated where known.

313205 to 313545—Continued**313213 to 313543—Continued**

313521. 17. 'Acerado cafe'. Ing. Miranda. San Pablo de Monte, 1965. Elevation 2,230 m.

313522. 18. 'Negro'. Ing. Miranda. San Pablo de Monte, 1965. Elevation 2,230 m.

State of Veracruz. Place and year of original collection indicated where known.

313523. 1-A-1. Veracruz.

313524. X-890. 8. 'Vaquita'. Altotonga, 1946. Elevation 1,187 m. White, black.

313525. F.V. 12. 'Amarillo'. Papantla, 1948. Elevation 298 m. Yellow.

313526. 114. 17. 'Negro jaro'. Fortin, 1952. Elevation 1,130 m. Dull black.

313527. 115. 18. 'Negro jaro'. Fortin, 1952. Dull black.

313528. 117. 'Blanco'. Francisco Cardenas. Rancho de la Felicidad, Michoapan.

State of Zacatecas. Place and year of original collection indicated where known.

313529. 2-A. 'Blanco'. Ejido Alberto, 1948. White.

313530. 3-A. 'Canario'. Ejido San Alberto, 1953. Sulphur colored.

313531. 6-A. 'Apetito'. Ojo Caliente, 1948. Elevation 1,850 m.

313532. 10-A-1. No data.

313533. 12. No data.

313534. 12. No data.

313535. 19. 'Buengusto'. Nochixtlan, 1946. Elevation 1,800 m. Sulphur colored.

313536. 36. 'Blanco'. Sain Alto, 1952. Buff.

313537. 38. 'Panza puerca'. Fresnillo, 1952. Elevation 1,800 m. Pearl gray.

313538. 41. 'Canario'. Ojo Caliente, 1952. Elevation 1,800 m. Purple.

313539. 42. 'Morado'. Fresnillo, 1952. Elevation 1,800 m. Buff.

313540. 43. 'Bayo'. Fresnillo, 1952. Elevation 1,800 m.

313541. 45. 'Bayo'. Zacatecas, 1952. Elevation 1,800 m.

313542. 46. 'Bayo'. Zacatecas, 1952. Elevation 1,800 m.

313543. 50. 'Canario'. Zacatecas, 1952. Elevation 2,160 m. Yellow.

313544 and 313545. VIGNA SINENSIS (Torner) Savi Leguminosae.

Cowpea.

313544. X-9081. 208-a. 'De castilla vigna'. Ocozocuahtla, Chiapas. Black.

313545. ACM-RGGC. 207. 'Vigna'. Coatepec, Mexico, 1957. Mantequilla.

313546 to 313548. MICROCITRUS AUSTRALIS (Planchon) Swingle Rutaceae.

From Australia. Seeds presented by the Department of Agriculture, Division of Horticulture, Sydney. Received April 14, 1966.

Received from Mr. Charleton, Blackbutt, Queensland.

313546 to 313548—Continued

313546. No. 230. Broad width leaf clone.
 313547. No. 231. Medium width leaf clone.
 313548. No. 232. Narrow width leaf clone.

313549 to 313551.

From the Netherlands. Plants presented by F. W. Holmes, University of Massachusetts, Amherst. Numbered April 14, 1966.

313549. *ULMUS AMERICANA* L. Ulmaceae. **American elm.**

G 14635. Tree uniform, medium erect, medium leafy, much branched, procumbent drooping. Excellent winter hardiness and spring vigor. Resistant to Dutch elm disease.

313550. *ULMUS CARPINIFOLIA* Gleditsch **Smoothleaf elm.**

G 14633. 'Christine Buisman'. Tree uniform, very erect, medium leafy, much branched. Excellent winter hardiness and spring vigor.

313551. *ULMUS HOLLANDICA* Mill. **Dutch elm.**

G 14634. 'Belgica'. Tree uniform, very erect. Branches many, alternate in 2 opposite rows. Excellent winter hardiness and spring vigor. Susceptible to Dutch elm disease.

313552 to 313554.

From Great Britain. Seeds presented by Royal Botanic Garden, Kew, England. Numbered April 14, 1966.

313552. *VICIA FABA* var. *EQUINA* Pers. Leguminosae.
 313553. *VICIA FABA* var. *MINOR* (Peterm.) Beck
 313554. *VICIA LUTEA* L.

313555. *VICIA SATIVA* L. Leguminosae.

From France. Seeds presented by Station de Amelioration des Plantes, Montpellier. Numbered April 14, 1966.

313556 and 313557.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Numbered April 14, 1966.

313556. *VICIA ERVILIA* (L.) Willd. Leguminosae. **Bitter vetch.**
 C.P.I. 24890.
 313557. *VICIA PANNONICA* Crantz
 C.P.I. 22901.

313558 to 313570. *ORYZA SATIVA* L. Gramineae. **Rice.**

From Taiwan. Seeds presented by Taiwan Agricultural Research Institute, Taipei. Numbered April 14, 1966.

- | | |
|-----------------------------|-------------------------|
| 313558. 'Deo-gen-mean-don'. | 313565. 'Taichung 176'. |
| 313559. 'Hsinchu 56'. | 313566. 'Taichung 178'. |
| 313560. 'Hualien 18'. | 313567. 'Taichung 179'. |
| 313561. 'Kaohsiung'. | 313568. 'Tainan 2'. |
| 313562. 'Shun-gan'. | 313569. 'Tainung 45'. |
| 313563. 'Taichung 162'. | 313570. 'Taipei 8'. |
| 313564. 'Taichung 172'. | |

313571 to 313902. PHASEOLUS VULGARIS L. Leguminosae.**Common bean.**

From Guatemala. Seeds grown by Regional Office for the Northern Zone of the Inter-American Institute of Agricultural Sciences, Organization of American States, Chimaltenango. Numbered April 15, 1966.

Selections made for superior yield by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland.

Original seed collected in Colombia.

- 313571. Col. No. Antioquia 6.
- 313572. Col. No. Antioquia 12.
- 313573. Col. No. Antioquia 18.
- 313574. Col. No. Antioquia 25.
- 313575. Col. No. Antioquia 26.
- 313576. Col. No. Antioquia 34.
- 313577. Col. No. Antioquia 36.
- 313578. Col. No. Antioquia 64.
- 313579. Col. No. Antioquia 94.
- 313580. Col. No. Antioquia 106.
- 313581. Col. No. Antioquia 140.
- 313582. Col. No. Atlantico 1.
- 313583. Col. No. Atlantico 6.
- 313584. Col. No. Boyaca 1.
- 313585. Col. No. Boyaca 4.
- 313586. Col. No. Boyaca 5.
- 313587. Col. No. Boyaca 6.
- 313588. Col. No. Boyaca 8.
- 313589. Col. No. Boyaca 21.
- 313590. Col. No. Boyaca 22.
- 313591. Col. No. Boyaca 30.
- 313592. Col. No. Boyaca 101.
- 313593. Col. No. Boyaca 104.
- 313594. Col. No. Cauca 15.
- 313595. Col. No. Cauca 31.
- 313596. Col. No. Cauca 33.
- 313597. Col. No. Cauca 36.
- 313598. Col. No. Cauca 38.
- 313599. Col. No. Cauca 39.
- 313600. Col. No. Cauca 41.
- 313601. Col. No. Cundinamarca 11.
- 313602. Col. No. Cundinamarca 17.
- 313603. Col. No. Cundinamarca 45.
- 313604. Col. No. Cundinamarca 47A.
- 313605. Col. No. Cundinamarca 65.
- 313606. Col. No. Cundinamarca 112.

313571 to 313902—Continued

- 313607. Col. No. Cundinamarca 115.
- 313608. Col. No. Cundinamarca 116.
- 313609. Col. No. Cundinamarca 120.
- 313610. Col. No. Cundinamarca 137.
- 313611. Col. No. Cundinamarca 138.
- 313612. Col. No. Cundinamarca 140.
- 313613. Col. No. Cundinamarca 146.
- 313614. Col. No. Huila 2.
- 313615. Col. No. Huila 5.
- 313616. Col. No. Huila 6.
- 313617. Col. No. Huila 7.
- 313618. Col. No. Huila 9.
- 313619. Col. No. Huila 12.
- 313620. Col. No. Huila 14.
- 313621. Col. No. Huila 17.
- 313622. Col. No. Huila 19.
- 313623. Col. No. Huila 23.
- 313624. Col. No. Magdalena 3.
- 313625. Col. No. Magdalena 11.
- 313626. Col. No. Magdalena 12.
- 313627. Col. No. Narino 2.
- 313628. Col. No. Narino 4.
- 313629. Col. No. Narino 7.
- 313630. Col. No. Narino 11.
- 313631. Col. No. Narino 12.
- 313632. Col. No. Narino 24.
- 313633. Col. No. Narino 47.
- 313634. Col. No. Narino 50.
- 313635. Col. No. Santander del Norte 1.
- 313636. Col. No. Santander del Norte 3.
- 313637. Col. No. Santandwer del Norte 6.
- 313638. Col. No. Santander del Sur 9.
- 313639. Col. No. Tolima 17.
- 313640. Col. No. Tolima 35.
- 313641. Col. No. Tolima 39.
- 313642. Col. No. Valle 3.
- 313643. Col. No. Valle 4.
- 313644. Col. No. Valle 10.
- 313645. Col. No. Valle 15.
- 313646. Col. No. Valle 16.
- 313647. Col. No. Valle 17.

313571 to 313902—Continued

Original seed collected in Brazil.

313648. Col. No. 1.**313649.** Col. No. 6.

Original seed collected in Costa Rica.

313650. Col. No. 2.

Original seed collected in Belgian Congo.

313651. Col. No. 2.**313652.** Col. No. 5.**313653.** Col. No. 6.

Original seed collected in Cuba.

313654. Col. No. 2.

Original seed collected in Chile.

313655. Col. No. 7.**313656.** Col. No. 23.**313657.** Col. No. 27.

Original seed collected in Ecuador.

313658. Col. No. 5.**313659.** Col. No. 6.**313660.** Col. No. 10.**313661.** Col. No. 12.**313662.** Col. No. 32.**313663.** Col. No. 45.**313664.** Col. No. 64.**313665.** Col. No. 66.**313666.** Col. No. 68.**313667.** Col. No. 71.**313668.** Col. No. 72.**313669.** Col. No. 73.**313670.** Col. No. 89.**313671.** Col. No. 90.**313672.** Col. No. 92.**313673.** Col. No. 116.**313674.** Col. No. 132.**313675.** Col. No. 134.**313676.** Col. No. 149.**313677.** Col. No. 199.**313678.** Col. No. 200.**313679.** Col. No. 206.**313680.** Col. No. 208.**313681.** Col. No. 217.**313682.** Col. No. 247.**313683.** Col. No. 250.**313684.** Col. No. 258.**313685.** Col. No. 267.**313686.** Col. No. 269.**313687.** Col. No. 272.**313688.** Col. No. 275.**313689.** Col. No. 277.**313690.** Col. No. 279.**313691.** Col. No. 299.**313692.** Col. No. 307.**313693.** Col. No. 318.**313694.** Col. No. 319.**313695.** Col. No. 328.

Original seed collected in Ethiopia.

313696. Col. No. 4.**313697.** Col. No. 5.

Original seed collected in Italy.

313698. Col. No. 3.

Original seed collected in Japan.

313699. Col. No. 2.

313571 to 313902—Continued

313700. Col. No. 3.

Original seed collected in Mexico.

313701. Col. No. 3.	313741. Col. No. 128.
313702. Col. No. 4.	313742. Col. No. 129.
313703. Col. No. 5.	313743. Col. No. 130.
313704. Col. No. 6.	313744. Col. No. 131.
313705. Col. No. 9.	313745. Col. No. 143.
313706. Col. No. 10.	313746. Col. No. 144.
313707. Col. No. 11.	313747. Col. No. 147.
313708. Col. No. 17.	313748. Col. No. 156.
313709. Col. No. 19.	313749. Col. No. 157.
313710. Col. No. 20.	313750. Col. No. 161.
313711. Col. No. 21.	313751. Col. No. 163.
313712. Col. No. 23.	313752. Col. No. 164.
313713. Col. No. 28.	313753. Col. No. 165.
313714. Col. No. 33.	313754. Col. No. 167.
313715. Col. No. 34.	313755. Col. No. 168.
313716. Col. No. 36.	313756. Col. No. 169.
313717. Col. No. 40.	313757. Col. No. 172.
313718. Col. No. 44.	313758. Col. No. 175.
313719. Col. No. 52.	313759. Col. No. 178.
313720. Col. No. 53.	313760. Col. No. 181.
313721. Col. No. 54.	313761. Col. No. 183.
313722. Col. No. 55.	313762. Col. No. 184.
313723. Col. No. 60.	313763. Col. No. 189.
313724. Col. No. 63.	313764. Col. No. 201.
313725. Col. No. 72.	313765. Col. No. 203.
313726. Col. No. 73.	313766. Col. No. 220.
313727. Col. No. 77.	313767. Col. No. 221.
313728. Col. No. 89.	313768. Col. No. 227.
313729. Col. No. 100.	313769. Col. No. 230.
313730. Col. No. 103.	313770. Col. No. 240.
313731. Col. No. 109.	313771. Col. No. 246.
313732. Col. No. 112.	313772. Col. No. 247.
313733. Col. No. 113.	313773. Col. No. 249.
313734. Col. No. 118.	313774. Col. No. 251.
313735. Col. No. 119.	313775. Col. No. 263.
313736. Col. No. 120.	313776. Col. No. 274.
313737. Col. No. 122.	313777. Col. No. 278.
313738. Col. No. 125.	313778. Col. No. 279.
313739. Col. No. 126.	313779. Col. No. 286.
313740. Col. No. 127.	313780. Col. No. 292.

313571 to 313902—Continued

313781.	Col. No. 300.	313811.	Col. No. 424.
313782.	Col. No. 303.	313812.	Col. No. 425.
313783.	Col. No. 304.	313813.	Col. No. 433.
313784.	Col. No. 307.	313814.	Col. No. 435.
313785.	Col. No. 322.	313815.	Col. No. 436.
313786.	Col. No. 327.	313816.	Col. No. 438.
313787.	Col. No. 339.	313817.	Col. No. 447.
313788.	Col. No. 341.	313818.	Col. No. 448.
313789.	Col. No. 349.	313819.	Col. No. 450.
313790.	Col. No. 351.	313820.	Col. No. 451.
313791.	Col. No. 353.	313821.	Col. No. 456.
313792.	Col. No. 357.	313822.	Col. No. 461.
313793.	Col. No. 360.	313823.	Col. No. 466.
313794.	Col. No. 366.	313824.	Col. No. 467.
313795.	Col. No. 369.	313825.	Col. No. 471.
313796.	Col. No. 375.	313826.	Col. No. 479.
313797.	Col. No. 393.	313827.	Col. No. 481.
313798.	Col. No. 395.	313828.	Col. No. 482.
313799.	Col. No. 396.	313829.	Col. No. 483.
313800.	Col. No. 398.	313830.	Col. No. 486.
313801.	Col. No. 400.	313831.	Col. No. 491.
313802.	Col. No. 405.	313832.	Col. No. 492.
313803.	Col. No. 406.	313833.	Col. No. 494.
313804.	Col. No. 407.	313834.	Col. No. 498.
313805.	Col. No. 408.	313835.	Col. No. 505.
313806.	Col. No. 410.	313836.	Col. No. 506.
313807.	Col. No. 412.	313837.	Col. No. 519.
313808.	Col. No. 415.	313838.	Col. No. 522.
313809.	Col. No. 418.	313839.	Col. No. 528.
313810.	Col. No. 419.		

Original seed collected in Peru.

313840.	Col. No. 5.	313847.	Col. No. 75.
313841.	Col. No. 14.	313848.	Col. No. 80.
313842.	Col. No. 19.	313849.	Col. No. 110.
313843.	Col. No. 23.	313850.	Col. No. 143.
313844.	Col. No. 37.	313851.	Col. No. 152.
313845.	Col. No. 41.	313852.	Col. No. 153.
313846.	Col. No. 63.		

Original seed collected in Venezuela.

313853.	Col. No. 2.	313856.	Col. No. 12.
313854.	Col. No. 7.	313857.	Col. No. 13.
313855.	Col. No. 11.	313858.	Col. No. 17.

313571 to 313902—Continued

313859. Col. No. 18.	313881. Col. No. 55.
313860. Col. No. 19.	313882. Col. No. 56.
313861. Col. No. 20.	313883. Col. No. 57.
313862. Col. No. 22.	313884. Col. No. 59.
313863. Col. No. 23.	313885. Col. No. 60.
313864. Col. No. 24.	313886. Col. No. 63.
313865. Col. No. 25.	313887. Col. No. 64.
313866. Col. No. 29.	313888. Col. No. 65.
313867. Col. No. 31.	313889. Col. No. 68.
313868. Col. No. 36.	313890. Col. No. 70.
313869. Col. No. 38.	313891. Col. No. 71.
313870. Col. No. 39.	313892. Col. No. 74.
313871. Col. No. 40.	313893. Col. No. 75.
313872. Col. No. 42.	313894. Col. No. 76.
313873. Col. No. 44.	313895. Col. No. 77.
313874. Col. No. 45.	313896. Col. No. 81.
313875. Col. No. 46.	313897. Col. No. 82.
313876. Col. No. 47.	313898. Col. No. 87.
313877. Col. No. 48.	313899. Col. No. 90.
313878. Col. No. 49.	313900. Col. No. 93.
313879. Col. No. 50.	313901. Col. No. 94.
313880. Col. No. 54.	313902. Col. No. 95.

313903 and 313904.

From Germany. Seeds presented by the Botanical Garden, Bremen. Received April 19, 1966.

313903. *GENISTA GERMANICA* L. Leguminosae.

313904. *GENISTA SAGITTALIS* L.

313905. GOSSYPIUM HIRSUTUM L. Malvaceae. **Upland cotton.**

From Turkey. Seeds presented by Regional Cotton Research Institute, Adana. Received April 19, 1966.

C.B. 3800. 'Deltapine 15/21'.

313906. GOSSYPIUM sp. Malvaceae.

From Mexico. Seeds collected by O. F. Francke, Mexico, D.F. Received April 19, 1966.

Collected in Papaloapam, Oaxaca. Wild tree cotton.

313907. LAGERSTROEMIA TURBINATA Koehne Lythraceae.

From Australia. Seeds presented by Hazlewood Nurseries Company, Epping, New South Wales. Received April 20, 1966.

313908 and 313909. HORDEUM DISTICHON L. Gramineae.

From the Netherlands. Seeds presented by Institute of Plant Breeding, Wageningen. Received April 20, 1966.

313908. 'Bock'.

313909. 'Impala'.

313910 to 313915.

From Sweden. Seeds presented by Weibullsholm Plant Breeding Institute, Landskrona. Received April 20, 1966.

313910 to 313912. *AVENA SATIVA* L. Gramineae. **Common oats.**

313910. Weibull No. 16414.

313911. Weibull No. 16509.

313912. Weibull No. 16511.

313913. *HORDEUM DISTICHON* L. Gramineae.

Weibull No. 5923.

313914 and 313915. *TRITICUM AESTIVUM* L. Gramineae.

313914. Weibull No. 8874.

313915. Weibull No. 7389.

313916 to 313925.

From the Union of Soviet Socialist Republics. Cuttings presented by the All-Union Institute of Plant Industry, Leningrad. Received April 4, 1966. Numbered April 20, 1966.

313916. *VITIS* sp. Vitaceae.

'Baladi'.

313917. *VITIS* sp.

'Karburnian'.

313918. *VITIS* sp.

'Kishmish Hishrau'.

313919. *VITIS* sp.

'Kishmish of VIR'. Seedless white, medium small, sweet; originated in Soviet Union.

313920. *VITIS* sp.

'Rkatitselli'.

313921. *VITIS* sp.

'Sara Angusta'.

313922. *VITIS* sp.

'Tarnau'.

313923. *VITIS* sp.

'Tokulma'. Very long clusters, white, poor flavor, everbearing type.

313924. *VITIS* sp.

'Uzbekistanian Muscat'. Medium large, white, fine muscat flavor, crisp; maturity mid-September.

313925. *VITIS* sp.

'White Muscat'.

313926 to 313939.

From the Union of Soviet Socialist Republics. Scions presented by All-Union Institute of Plant Industry, Leningrad. Received March 31, 1966. Numbered April 20, 1966.

313926. *PYRUS AMYGDALIFORMIS* var. *PERSICA* (Pers.) Bornm. Rosaceae.

313927. *PYRUS USSURIENSIS* var. *HONDOENSIS* (Kikuchi & Nekai) Rehd.

Hondo pear.

313926 to 313939—Continued

313928. *PYRUS CALLERYANA* var. *GRACILIFLORA* Rehd.313929. *PYRUS CAUCASICA* Fed.313930. *PYRUS COMPLEXA* Rubtz.313931. *PYRUS ELATA* Rubtz.313932. *PYRUS MEDVEDEVII* Rubtz.313933. *PYRUS NIVALIS* Jacq.313934. *PYRUS PYRIFOLIA* (Burm.) Nakai

Late pear.

313935. *PYRUS* sp.313936. *PYRUS SALICIFOLIA* Pall.

Willow-leaved pear.

313937. *PYRUS USSURIENSIS* var. *HONDOENSIS* (Kik. & Nak.) Rehd.

Hondo pear.

313938. *PYRUS USSURIENSIS* var. *OVOIDEA* Rehd.313939. *PYRUS UYEMATSUANA* Makino313940. *PHASEOLUS VULGARIS* L. Leguminosae.

From Honduras. Seeds presented by George Freytag, Escuela Agricola Panamericana, Zamorano. Received April 21, 1966.

'Zamorano'.

313941. *NYSSA SINENSIS* Oliv. Cornaceae.

From Australia. Scions presented by Hazlewood Nurseries Pty., Limited, Epping New South Wales. Received April 25, 1966.

313942 to 313944.

From Peru. Seeds and bulbs presented by E. A. Gildemeister, Lima. Received April 25, 1966.

313942. *CRINUM* sp. Amaryllidaceae.

Seeds. Plants very strong, rapid multiplier, grown on coast. Foliage very vigorous.

313943. *LYCOPERSICON* sp. Solanaceae.

Seeds. Peruvian tomato, fruit size of peas; wild in canefields on Pacific coast.

313944. (Undetermined.) Papaveraceae.

Seeds. Elevation 12,000 feet. Very large bushlike tree from the sierra. Leaves to 10 inches long, gray with orange-colored juice. Bark rough. Tiny flowers in clusters to 10 inches long. No snow; dry summer; wet winter.

313945. *FRAGARIA* (hybrid). Rosaceae.

Strawberry.

From Scotland. Plants presented by the Scottish Horticultural Research Institute, Mylnefield, Invergowrie, by Dundee, Angus. Received April 26, 1966.

'Crusader'. S.16/1965.

313946 to 313959.

From Bolivia. Collected by D. H. Timothy, North Carolina State University, Raleigh. Seeds unless noted otherwise. Received April 28, 1966.

313946 to 313951. *ARACHIS HYPOGAEA* L. Leguminosae.

Peanut.

Obtained from collection at Experiment Station Farm at Saavedra.

313946. Col. No. 189. 'Ocelliri'.

313946 to 313959—Continued**313946 to 313951—Continued**

313947. Col. No. 190. 'Pulquina II'.
 313948. Col. No. 191. 'Perlita'. Local variety.
 313949. Col. No. 192. 'Overo Chiquitano'. Local variety. Semi-erect.
 313950. Col. No. 193. 'Criollo Rosado'. Semi-erect.
 313951. Col. No. 194. 'Colorado San Simon'. Tarya. Semi-erect.
313952. COIX LACRYMA-JOBI L. Gramineae. Jobs-tears.
 Col. No. 185. Ten km. along road from San Carlos on way to Pto. Yapacane, Ichilo Province.
313953. ELYONURUS sp. Gramineae.
 Col. No. 187. On farm at Gral Saavedra, Santa Cruz.
313954. GOSSYPIUM sp. Malvaceae.
 Col. No. 181. 'Algodon'. Village of Santiago, Chiquitos.
313955. GOSSYPIUM sp. Malvaceae.
 Col. No. 182. 'Algodon'. Town of Robore, Chiquitos. Yellow flowers.
313956. GOSSYPIUM sp.
 Col. No. 184. 'Algodon'. Santa Fe, Chiquitos.
313957. LEUCAENA LEUCOCEPHALA (Lam.) de Wit Leguminosae.
 Col. No. 188. 'Chamba'. Gral Saavedra along ditch on Granya, Santa Cruz.
313958. TRIPSACUM sp. Gramineae.
 Col. No. 180. Along dry sandy streambed between Santiagoma and San Roque, 20 km. east of Robore, Chiquitos. (Clone.)
313959. TRIPSACUM sp.
 Col. No. 180. Along dry sandy streambed between Santiagoma and San Roque, 20 km. east of Robore, Chiquitos.

313960 to 313968.

From the Union of Soviet Socialist Republics. Seeds presented by Botanical Garden, Stavropol. Received April 28, 1966.

313960. AGROPYRON GRACILLIMUM Nevski Gramineae.
 313961. AGROPYRON SIBIRICUM (Willd.) Beauv. Siberian wheatgrass.
 313962. COTONEASTER LUCIDA Schlecht. Rosaceae.
 313963. COTONEASTER MULTIFLORA Bunge
 313964. COTONEASTER RACEMIFLORA (Desf.) Koch
 313965. ELYMUS GIGANTEUS Vahl Gramineae. Siberian wildrye.
 313966. RHAMNUS FRANGULA L. Rhamnaceae. Glossy buckthorn.
 313967. TRIFOLIUM PANNONICUM Jacq. Leguminosae.
 313968. TRIFOLIUM PRATENSE L. Red clover.

313969 to 313980. CUCUMIS MFLO L. Cucurbitaceae.

Muskmelon.

From the Union of Soviet Socialist Republics. Seeds presented by All Union Institute of Plant Industry, Leningrad. Received April 28, 1966.

313969. No. 5678. India.

313969 to 313980—Continued

313970. No. 5682. India.
 313971. No. 2580. 'Sakar-Palak'. Central Asia.
 313972. No. 1219. 'Arbakesa'. Central Asia.
 313973. No. 5192. 'Charentais'. France.
 313974. No. 5200. 'Zuccherino'. Italy.
 313975. No. 610. 'Zaami'. Central Asia.
 313976. No. 3828. 'Kokkala hosh'. Central Asia.
 313977. No. 3188. 'Kara-kaum'. Central Asia.
 313978. No. 3744. 'Kara-pucak'. Central Asia.
 313979. No. 3748. 'Umyrvaki'.
 313980. No. 3802. 'Guliabi oranzevaja'. Central Asia.

313981 to 313985.

From the Netherlands. Plants presented by F. W. Holmes, University of Massachusetts, Amherst. Numbered April 28, 1966.

313981. *ULMUS CARPINIFOLIA* Gleditsch Ulmaceae. **Smoothleaf elm.**

G 14637. Line 297. 'Cristiie Buisman' \times open-pollinated. Tree uniform, erect, branches many, ascending, leafy; leaves 8.1 by 6.0 cm., dark, rugose, serrate. Excellent winter hardiness and spring vigor. Slightly susceptible to Dutch elm disease.

- 313982 and 313983. *ULMUS HOLLANDICA* Mill. Ulmaceae. **Dutch elm.**

313982. G 14636. Line 390. 'Bea Schwarz' \times open-pollinated. Tree uniform, erect, branches many, ascending. Leaves 7.9 by 5.5 cm., many, not glossy. Excellent winter hardiness and spring vigor. Resistant to Dutch elm disease.

313983. G 14638. Line 336. 'Bea Schwarz' \times open-pollinated. Tree uniform, erect, branches many, ascending. Leaves 6.3 by 5.1 cm., many glossy. Excellent winter hardiness and spring vigor. Resistant to Dutch elm disease.

- 313984 and 313985. *ULMUS* (hybrid). Ulmaceae.

313984. G 14632. Line 283. *Ulmus carpinifolia* or *U. hollandica* \times (*U. carpinifolia* \times *U. plotii*). Tree erect, much branched, leafy, lenticels prominent, reddish-brown, leaves 8.5 by 6.9 cm. Excellent winter hardiness and spring vigor. Resistant to Dutch elm disease.

313985. G 14631. Line 148. *Ulmus hollandica* 'Vegeta' \times (*Ulmus carpinifolia* \times *plotii*). Tree erect, much branched, leafy, leaves glossy, 7.8 by 6.7 cm. Slightly susceptible to Dutch elm disease.

313986 to 313991.

From the Republic of South Africa. Seeds presented by the Gunson Seeds South Africa Limited, Johannesburg. Received April 29, 1966.

- 313986 to 313988. *GOSSYPIUM HIRSUTUM* L. Malvaceae. **Upland cotton.**

313986. 'Acala 442'. Barberton Research Station.

313987. 'Albar 637'. Barberton Research Station.

313988. 'Cape Acala'. Uppington Research Station.

313989. *GOSSYPIUM* sp. Malvaceae.

'Kapel 2106'. Barberton Research Station.

313990. *GOSSYPIUM* sp. Malvaceae.

'Loco B.5160'. Barberton Research Station.

313986 to 313991—Continued

313991. *Gossypium* sp. Malvaceae.

'Muka A.7215'. Barberton Research Station.

313992. *Encephalartos* sp. Cycadaceae.

From Dahomey. Plant collected by Llewelyn Williams, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received April 29, 1966.

Collected at Cotonou.

313993 to 314045.

From the Republic of South Africa. Seeds presented by Plant Introduction Officer. Grown at Rietondale Research Station, Pretoria. Received April 29, 1966.

313993 and 313994. *Eragrostis atherstonei* Stapf Gramineae.

313993. B/53/299. Pretoria.

313994. B/53/303. Viljoenskroon.

313995. *Eragrostis capensis* (Thunb.) Trin.

B/50/20. Piketberg.

313996. *Eragrostis chalcantha* Trin.

B/53/31. Piketberg.

313997. *Eragrostis chloromelas* Steud.

Boer lovegrass.

U/57/226. Gunson London.

313998 to 314012. *Eragrostis curvula* (Schrad.) Nees

Weeping lovegrass.

313998. B/50/65(a). Malmesburg.

313999. B/50/67. Hendrina.

314000. B/51/66. Basoetoeland.

314001. B/52/49. Zebra Park.

314002. B/52/119. Langebaanweg.

314003. B/52/143. Caledon.

314004. B/53/12. Mokhotlong. 1956.

314005. B/53/12. Mokhotlong. 1958.

314006. B/53/16. Maseru.

314007. B/53/38. Koelenhof.

314008. B/53/40. Piketberg.

314009. B/53/43. Constantia.

314010. B/53/47. Uielgeualhen.

314011. B/53/50. Mitchell's pass.

314012. B/53/51. Paarl.

314013. *Eragrostis curvula* var. *conferta* Nees

B/53/54. Rhodes fruit farm.

314014 to 314018. *Eragrostis curvula* (Schrad.) Nees

Weeping lovegrass.

314014. B/53/56. Paneel.

314015. B/53/59. Simondium.

313993 to 314045—Continued**314014 to 314018—Continued**

314016. B/53/63. Bothashalt.
 314017. B/53/64. Constantia.
 314018. B/53/65. Winkelhaak.

314019. *ERAGROTIS CURVULA* var. *CONFERTA* Nees
 B/53/68. Rhodes fruit farm.

314020 to 314038. *ERAGROTIS CURVULA* (Schrad.) Nees **Weeping lovegrass.**

314020. B/53/123. Bien Donne.
 314021. B/53/127. Loch Liebn.
 314022. B/53/139. Ermelo.
 314023. B/53/156. City Deep Myn.
 314024. B/53/261. Begraafplaas.
 314025. B/53/263. Dr. Kriek.
 314026. B/53/265. Schagen.
 314027. B/53/267. Northam.
 314028. B/53/270. Wassenaar.
 314029. B/54/9. Sterkstroom.
 314030. B/54/13. Burgersdorf.
 314031. B/54/30. Tabamhlape.
 314032. B/54/36. Middelburg.
 314033. B/55/11. Fouriesburg.
 314034. B/56/27. Dohne.
 314035. B/57/118. Schagen.
 314036. B/58/71. Witbank.
 314037. B/63/21. Middelburg.
 314038. B/57/227. Tanganyika.

314039. *ERAGROTIS ECHINOCLOIDEA* Stapf.
 B/50/12. Upington.

314040. *ERAGROTIS FERUGINEA* (Thunb.) Beauv. **Korean lovegrass.**
 U/57/205. Mashima, Japan.

314041. *ERAGROTIS LEHAMNNIANA* Nees **Lehmann lovegrass.**
 B/52/37. Oorlogspoort.

314042. *ERAGROTIS ROBUSTA* Stent
 B/53/52(a). Helshoogte.

314043. *ERAGROTIS SARMENTOSA* (Shunb.) Trin.
 B/52/54. De Doorns.

314044. *ERAGROTIS SUBULATA* Nees
 B/53/260. Diep Rivier.

314045. *ERAGROTIS SUPERBA* Peyr.
 B/52/9. Northam.

314046 and 314047. HUMULUS LUPULUS L. Moraceae.**Common hop.**

From Australia. Cuttings presented by the Carlton and United Breweries Limited. Received May 2, 1966.

314046. 'Pride of Ringwood'. Late maturing; alpha acid analysis over ten percent. Originated from cross between 'Pride of Kent' and local male type. No record of downy mildew.

314047. 'Ringwood Special'. Early maturing; alpha acid analysis around 8 percent. High yielder. Originated from cross between Fuggle and Cluster male. No record of downy mildew.

314048. ARACHIS HYPOGAEA L. Leguminosae. Peanut.

From Dahomey. Seeds collected by Llewelyn Williams, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received May 2, 1966.

Collected in Dassa-Zaume. Small-seeded variety grown in central and northern Dahomey.

314049 to 314052.

From the Republic of South Africa. Seeds presented by Plant Introduction Officer, Department of Agricultural Technical Services, Pretoria. Received May 2, 1966.

314049. GOSSYPIUM HERBACEUM L. Malvaceae. Levant cotton.
B/63/23. Malelane. Eastern Transvaal.

314050 to 314052. GOSSYPIUM HERBACEUM var. AFRICANUM (Watt) Hutch. & Ghose.

314050. B/63/6. Barberton Research Station. Eastern Transvaal.

314051. B/63/17. Hoedspruit—Johkmansspruit. Eastern Transvaal.
Very hard seed coat.

314052. M/66/193. Groblersdal Marblehall. Eastern Transvaal.

314053. PUNICA GRANATUM L. Punicaceae. Pomegranate.

From Afghanistan. Seeds presented by the United States Agency for International Development, Kabul. Received May 4, 1966.

From Kandahar.

314054 to 314125.

From the Union of Soviet Socialist Republics. Seeds presented by Stavropol Sheep and Goat Breeding Institute and the Stavropol Botanic Garden, Stavropol. Numbered May 3, 1966.

314054. AGROPYRON INTERMEDIUM (Host) Beauv. Gramineae. Intermediate wheatgrass.

No. 10. Rostov state.

314055. AGROPYRON PSEUDOREPENS Scribn. & Sm.

No. 11. Uzbekistan.

314056 and 314057. AGROPYRON SIBIRICUM (Willd.) Beauv. Siberian wheatgrass.

314056. No. 7. Eastern dry (sandy) parts of North Caucasus.

314057. No. 8. Near Stavropol, Beshpazir village.

314058. AGROPYRON STIPIFOLIUM Czern.

No. 9. Maikop Experiment Station, Krasnodar.

314054 to 314125—Continued

314059. *ASTRAGALUS ASPER* Jacq. Leguminosae.
No. 32. Near Stavropol (Shatyr-Kurgan hill).
- 314060 and 314061. *ASTRAGALUS DEMETRII* Charadze
314060. No. 33. Pre-mountain region of North Caucasus.
314061. No. 34. Pre-mountain region of North Caucasus, Isprannaya village.
314062. *ASTRAGALUS FALCATUS* Lam.
No. 35. Georgia.
314063. *ASTRAGALUS GALEGIFORMIS* L.
No. 36. Pre-mountain region of North Caucasus, Pregradnaya village.
- 314064 and 314065. *ASTRAGALUS INTERPOSITUS* A. Boriss.
314064. No. 28. Pre-mountain region of North Caucasus, Isprannaya village.
314065. No. 29. Pre-mountain region of North Caucasus, Isprannaya village.
314066. *ASTRAGALUS LASIOGLOTTIS* Stev. in Bieb.
No. 37. Pre-mountain region of North Caucasus.
314067. *ASTRAGALUS ONOBRYCHIS* L.
No. 38. Near Stavropol.
314068. *ASTRAGALUS PALLESCENS* Bieb.
No. 30. Moldavia.
314069. *ASTRAGALUS PONTICUS* Pall.
No. 31. Alma Ata Botanic Garden.
314070. *BRIZA MEDIA* L. Gramineae.
No. 73. Pre-mountain region of North Caucasus, Isprannaya village.
314071. *BROMUS INERMIS* Leyss. Gramineae. **Smooth bromegrass.**
No. 12. Near Stavropol.
314072. *BROMUS RIPARIUS* Rehm.
No. 13. Stavropol dry steppes, Isptoro village.
314073. *CALOPHACA WOLGARICA* (L. f.) Fisch. Leguminosae.
No. 70.
314074. *CRAMBE CORDIFOLIA* Stev. Cruciferae.
No. 5. Pyatigorst region.
314075. *CRAMBE JUNCEA* Bieb.
No. 2. Pre-mountain region of North Caucasus, near Pyatigorsk.
- 314076 and 314077. *CRAMBE TATARICA* Jacq.
314076. No. 1. Near Stavropol.
314077. No. 4. Near Rostov.
314078. *CRAMBE* sp.
No. 3. Moldavia.
314079. *CRAMBE* sp.
No. 6. Pre-mountain region of the Caucasus.

314054 to 314125—Continued

314080. *DACTYLIS GLOMERATA* L. Gramineae. Orchardgrass.
No. 18. Pre-mountain region of North Caucasus.
314081. *DACTYLIS VORONOVII* Ovcz.
No. 19. Southwestern Turkmenia.
314082. *ELYMUS JUNCEUS* Fisch. Gramineae. Russian wildrye.
No. 76. Rostov Botanical Garden.
314083. *FESTUCA ARENARIA* Lam. Gramineae.
No. 51. Leningrad.
314084. *FESTUCA DJIMILENSIS* Boiss. & Bal.
No. 52. High mountain regions of Central Caucasus.
314085. *FESTUCA SABULOSA* H. Lindberg
No. 55. Leningrad.
314086. *FESTUCA SCLEROPHYLLA* Boiss.
No. 54. Pre-mountains of North Caucasus. Karachy.
314087. *FESTUCA SULCATA* (Hack.) Beck
No. 53. Manych lake.
314088. *HEDYSARUM ARGENTEUM* Bieb. Leguminosae.
No. 72.
314089. *HEDYSARUM HEDYSAROIDES* (L.) Schinz & Thell.
No. 68. Sub-alpine meadows of North Caucasus.
314090. *LOTUS CAUCASACUS* Kuprian. Leguminosae.
No. 15. Near Stavropol.
314091. *LOTUS FRONDOSUS* Freyn.
No. 14. East central part of Stavropol state.
314092. *MEDICAGO FALCATA* L. Leguminosae.
No. 16. Pre-mountain regions of North Caucasus.
314093. *MEDICAGO* sp.
No. 17. Near Stavropol.
314094. *MELILOTUS TAURICA* (Bieb.) Seringe Leguminosae.
No. 25. Leningrad Botanical Institute.
314095. *MELILOTUS WOLGICA* Poir.
No. 26. Voronesh Botanical Garden.
314096. *MELILOTUS* sp.
No. 24. Near Black Sea.
- 314097 and 314098. *ONOBRYCHIS TRANSCAUCASICA* Grossh. Leguminosae.
314097. No. 20. Kubansky-3 strain.
314098. No. 21. Kubanskii-3.
314099. *ONOBRYCHIS* sp.
No. 22. Pre-mountain region of North Caucasus and Armenia.
314100. *ONOBRYCHIS SINTENISHII* J. Bornm.
No. 23.

314054 to 314125—Continued

314101. *ORYZOPSIS HOLCIFORMIS* (Bieb.) Hack. Gramineae. **Ricegrass.**
No. 71. Leningrad Botanical Garden.
314102. *PHALARIS ARUNDINACEA* L. Gramineae. **Reed canarygrass.**
No. 75. East of Stavropol.
314103. *POA LONGIFOLIA* Trin. Gramineae.
No. 67. Pre-mountain regions of North Caucasus. **Rockery range.**
314104. *SANGUISORBA MINOR* Scop. Rosaceae. **Small burnet.**
No. 74. Near Stavropol.
314105. *SESLERIA HEUFLERIANA* Schur Gramineae.
No. 69. Pre-mountain region of North Caucasus.
- 314106 and 314107. *STIPA CAPILLATA* L. Gramineae.
314106. No. 56. Central and western parts of Stavropol State.
314107. No. 65. Manych Lake.
314108. *STIPA DASYPHYLLA* Czern. ex Trautv.
No. 57. Near Stavropol. Nednemannaya hill.
314109. *STIPA JOANNIS* Celak.
No. 62. Near Stavropol.
- 314110 and 314111. *STIPA PENNATA* L.
314110. No. 59. Near Stavropol.
314111. No. 61. Near Stavropol.
- 314112 and 314113. *STIPA PENNATA* var. *LESSINGIANA* (Tr. & Rupr.)
Richter
314112. No. 63. Stavropol.
314113. No. 64. Stavropol.
314114. *STIPA UCRAINICA* P. Smirnow
No. 58. Near Stavropol.
314115. *STIPA* sp.
No. 60. Near Stavropol.
314116. *TRIFOLIUM ALPESTRE* L. Leguminosae. **Purple globe clover.**
No. 43. Pre-mountain region of North Caucasus.
314117. *TRIFOLIUM APERTUM* Bobr.
No. 44. Near Stavropol.
314118. *TRIFOLIUM FRAGIFERUM* L. **Strawberry clover.**
No. 48. Near Stavropol.
314119. *TRIFOLIUM HYBRIDUM* L. **Alsike clover.**
No. 46.
314120. *TRIFOLIUM MONTANUM* L.
No. 47. Near Stavropol.
314121. *TRIFOLIUM PANNONICUM* Jacq.
No. 45. Pre-mountain region of North Caucasus.
314122. *TRIFOLIUM REPENS* L. **White clover.**
No. 49. Near Stavropol. Strighament hill.

314054 to 314125—Continued**314123.** TRIFOLIUM RUBENS L.

No. 50. Moscow Botanical Garden.

314124. VICIA PISIFORMIS L. Leguminosae.

No. 41. Moldavia.

314125. VICIA TENUIFOLIA Roth

No. 42. Near Stavropol.

314126 and 314127. SOLANUM TUBEROSUM L. Solanaceae.**Potato.**

From the Union of Soviet Socialist Republics. Tubers presented by the All Union Institute of Plant Industry, Leningrad. Received May 4, 1966.

314126. 'Stolovyi 19'. Middle late, resistant to late blight.**314127.** 'Veselovskij'. Middle early, resistant to late blight. Gene formula reported to be R1, R3, R4.**314128 to 314136.**

From Bolivia. Seeds and plants collected by D. H. Timothy, North Carolina State University, Raleigh, N. C. Received May 4, 1966.

314128. GOSSYPIMUM sp. Malvaceae.

Col. No. 199. 'Algodon'. Beni, Reyes. (Seeds).

314129 to 314136. TRIPSACUM AUSTRALE Cutler & Anders. Gramineae.**314129.** Col. No. 195. 'Cortadera'. On road to Rurrenabaque, 3 km. west of airport in unpopulated area of Casar, Beni, Reyes. Plants 3 to 4 meters high. (Plants).**314130.** Col. No. 195. 'Cortadera'. On road to Rurrenabaque, 3 km. west of airport in unpopulated area of Casar, Beni, Reyes. (Seed).**314131.** Col. No. 196. 'Cortadera'. Across swamp at south end of landing strip at edge of Isla de Payache, Beni, Reyes. (Plant).**314132.** Col. No. 196. 'Cortadera'. Across swamp at south end of landing strip at edge of Isla de Payache, Beni, Reyes. (Seed).**314133.** Col. No. 197. 'Cortadera'. One km. south of house called puesta or estancia San Jose, 2 km. southeast from Punto Cuatro. (Plant).**314134.** Col. No. 197. 'Cortadera'. One km. south of house called puesta or estancia San Jose, 2 km. southeast from Punto Cuatro. (Seed.)**314135.** Col. No. 198. Twenty five km. east of Reyes on way to San Borja. (Plant.)**314136.** Col. No. 198. Twenty five km. east of Reyes on way to San Borja. (Seed.)**314137.** BRASSICA NAPUS L. Cruciferae.**Rape.**

From Canada. Seeds presented by Canada Department of Agriculture, Research Branch, Saskatoon, Saskatchewan. Received May 5, 1966.

SZ62-11. Zero erucic acid strain.

314138 to 314771.

From the Union of Soviet Socialist Republics. Seeds collected by agricultural explorers Quentin Jones and Wesley Keller, Crops Research Division, Beltsville, Md. Numbered May 9, 1966.

From the vicinity of Samarkand, Uzbekistan.

314138 to 314771—Continued

314138. *AEGILOPS* sp. Gramineae.

Col. No. 7. Dry hill slopes of Ulugbek Observatory. Low annual, to 6 inches high.

314139. *AELUROPUS LITTORALIS* (Gouan) Parl. Gramineae.

Col. No. 31. Edge of clayey desert flat about 90 km. north of Galia-Aral. Rhizomatous grass, ascending culms to 10 inches high.

314140. *AGROPYRON TRICHOPHORUM* (Link) Richt. Gramineae.
Stiffhair wheatgrass.

Col. No. 18. Fertile swale 20 km. south of Galia-Aral. Rhizomatous perennial, culms to 24 inches high. Basal leaves clustered, decumbent.

314141. *ASTRAGALUS FILICAULIS* Fisch. & Mey. ex Ledeb. Leguminosae.

Col. No. 11. Edge of cultivated field 15 km. south of Samarkand near fruit research station. Annual, small, fine leaved, to 4 inches high. Usually with single fruiting head of 3 to 6 pods.

314142. *ASTRAGALUS FILICAULIS* Fisch. & Mey.

Col. No. 8. Dry hill slopes near Ulugbek Observatory. Annual, small, fine leaved, to 4 inches high. Usually with single fruiting head of 3 to 6 pods.

314143. *ASTRAGALUS* sp.

Col. No. 24. Seven km. east of Samarkand, near Ulugbek Observatory on very dry hills. Low annual, to 6 inches high with 1 to 4 pods.

314144. *BROMUS SEVERTZOVII* Regel. Gramineae.

Col. No. 28. Seven km. east of Samarkand, near Ulugbek Observatory on dry slopes. Low annual, to 6 inches high under dry conditions; to 18 inches high with favorable moisture.

314145. *CARAGANA* sp. Leguminosae.

Col. No. 19. Galia-Aral. Shelter belt near Arid Crops Research Center headquarters. Dense bush to 7 feet high; branches wandlike; racemes long.

314146. *CAREX PACHYSTYLIS* Gay Cyperaceae.

Col. No. 10. Near Fruit Research Station 15 km. south of Samarkand. Low perennial, to 6 inches high; single culm and usually a single spikelet. Basal cluster of 3 leaves.

314147. *CAREX* sp.

Col. No. 9. Dry hill slopes near Ulugbek Observatory. Low perennial, to 6 inches high; single culm and usually a single spikelet. Basal cluster of 3 leaves.

314148. *CITRULLUS LANATUS* (Thunb.) Mansf. Cucurbitaceae. Watermelon.

Col. No. 3. 'Mozaic'. Market in Samarkand. Locally grown. Dark and light green striped fruit; elongate.

314149 and 314150. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

314149. Col. No. 2. 'Gulabi'. Market in Samarkand. Locally grown. Flesh thick, sweet, aromatic.

314150. Col. No. 4. 'Ak-Navat'. Market in Samarkand. Locally grown. Fruit smaller than 'Gulabi'.

314151. *ERODIUM CICUTARIUM* (L.) L'Herit. Geraniaceae. Alfileria.

Col. No. 27. Seven km. east of Samarkand, near Ulugbek Observatory on dry slopes. Small annual to 4 inches high with 2 to 8 fruits.

314138 to 314771—Continued

314152. *HETERANTHELIUM* sp. Gramineae.

Col. No. 23. Seven km. east of Samarkand, near Ulugbek Observatory on dry slopes. Low annual to 8 inches high. Spikelets mature, purplish. Seeds large.

314153. *HYPECOUM TRILOBUM* Trautv. Papaveraceae.

Col. No. 12. Near Fruit Research Station 15 km. south of Samarkand. Annual to 16 inches high; flowers yellow; leaves pale green; capsules arched, to 3 inches long.

314154. *LACTUCA* sp. Compositae.

Col. No. 26. Seven km. east of Samarkand, near Ulugbek Observatory on dry knobs. Low branching annual to 4 inches high. Plants glaucous with purplish cast; 2 to 6 heads.

314155. *VICIA PEREGRINA* L. Leguminosae.

Col. No. 16. Dry hills along Zeravshan River valley, Tadjikistan, 65 km. southeast of Samarkand. Annual to 12 inches high, somewhat viny; leaflets 2-3 mm. wide, 15-20 mm. long.

314156. *MEDICAGO MINIMA* (L.) Grufberg ex L. Leguminosae.

Little medic.

Col. No. 13. Dry hills along Zeravshan River valley, Tadjikistan, 65 km. southeast of Samarkand. Small annual to 4 inches high; pods 1 to 3 per plant.

314157. *MEDICAGO SATIVA* L.

Alfalfa.

Col. No. 5. 'Lucerne'. Market in Sama.

314158. *MEDICAGO* sp.

Col. No. 14. Dry hills along Zeravshan River valley, Tadjikistan, 65 km. southeast of Samarkand. Annual to 7 inches high; pods 2 to 4 per plant.

314159. *ONOBRYCHIS ZONTSHAROVII* Voss. vel aff. Leguminosae.

Col. No. 15. Dry hills along Zeravshan River valley, Tadjikistan, 65 km. southeast of Samarkand. Annual, slender branching, to 14 inches high; terminal raceme of 3-8 pods.

314160. *ONOBRYCHIS* sp.

Col. No. 17. Moist swale 20 km. south of Galia-Aral. Branching annual to 16 inches high; long racemes of pods. Stems fine, leafy.

314161. *ONOBRYCHIS MICRANTHA* Schrenk. in Fisch. & Mey.

Col. No. 25. Seven km. east of Samarkand, near Ulugbek Observatory on dry hills. Recumbent annual; leaves 2-5 inches high; flowering spikes 3-8 inches long, reclining on ground; fruits spiny margined.

314162 to 314164. *POA BULBOSA* L. Gramineae. Bulbous bluegrass.

314162. Col. No. 1. Dry hills surrounding Ulugbek Observatory to 12 inches high; panicles large, compact.

314163. Col. No. 29. Near Non-Irrigated Crops Research Center, Galia-Aral. Bulbils from single early maturing plant, to 30 inches high; viviparous.

314164. Col. No. 30. Near Non-Irrigated Crops Research Center, Galia-Aral. Bulk sample from several robust plants, early maturing, to 30 inches high; viviparous.

314165. *PRUNUS SPINOSA* L. Rosaceae.

Blackthorn.

Col. No. 20. Galia-Aral. Shelterbelt near Arid Crop Research Center headquarters. Shrub, spiny, many branched; to 8 feet high.

314138 to 314771—Continued

314166. PRUNUS sp.

Col. No. 21. Galia-Aral. Shelterbelt near Arid Crops Research Center headquarters. Shrub, branchy, to 10 feet high. Not spiny. Fruit larger than Col. No. 20. (P.I. 314165).

314167. ROBINIA PSEUDOACACIA L. Leguminosae.

Black locust.

Col. No. 22. Galia-Aral. Shelterbelt near Arid Crops Research Center headquarters. Small tree; to 25 feet high. Pods retained from one year to next.

314168. SITANION sp. Gramineae.

Col. No. 6. Dry slopes of Ulugbek Observatory. Low annual to 8 inches high.

From the vicinity of Dushanbe, Tadjikistan.

314169. CAREX TURKESTANICA Regel. Cyperaceae.

Col. No. 34. Thirty-five km. east of Dushanbe. Perennial, to 16 inches high; fine stemmed and basal leaves.

314170. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

Col. No. 37. Market in Dushanbe.

314171. ONOBRYCHIS sp. Leguminosae.

Col. No. 32. Forty-five km. south of Dushanbe. Annual, branching, to 18 inches high; racemes long, strict.

314172 and 314173. POA BULBOSA L. Gramineae.

Bulbous bluegrass.

314172. Col. No. 33. Forty-five km. south of Dushanbe. Culms, to 14 inches high.

314173. Col. No. 35. Thirty-five km. east of Dushanbe. Plants, to 16 inches high, many showing pronounced vivipary.

314174. POA SILVICOLA Guss.

Col. No. 36. Sixty-five km. east of Dushanbe. Fine stemmed, robust, to 30 inches high.

From the vicinity of Fergana, Uzbekistan.

314175. ARISTIDA PLUMOSA L. Gramineae.

Col. No. 54. Sandy desert, 50 km. north of Fergana. Perennial grass, bunch type, thriving under very arid conditions.

314176. CALLIGONUM CAPUT-MEDUSAE Schrenk Polygonaceae.

Col. No. 52. Sand dunes in desert, 50 km. north of Fergana. Somewhat larger than P.I. 314177 but similar in habit. Fruiting bracts purplish.

314177. CALLIGONUM SETOSUM Litv. Polygonaceae.

Col. No. 51. Sand dunes in desert, 50 km. north of Fergana. Highly branched shrub to 1 meter high; yellowish fruiting bracts.

314178. CITRULLUS LANATUS (Thunb.) Mansf. Cucurbitaceae.

Watermelon.

Col. No. 55. Market in Fergana.

314179 and 314180. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

314179. Col. No. 56. 'Shakar-palak'. Market in Fergana.

314180. Col. No. 57. 'Kara-Kavun'. Market in Fergana.

314181. PRUNUS ARMENIACA L. Rosaceae.

Apricot.

Col. No. 58. Market in Fergana. Early.

314138 to 314771—Continued

314182. *TOURNEFORTIA* sp. Boraginaceae.

Col. No. 53. Sand dunes in desert, 50 km. north of Fergana. Semi-shrubby perennial, to 2 feet high; numerous fruiting spikes.

From the vicinity of Tashkent, Uzbekistan.

314183. *ACER* sp. Aceraceae.

Col. No. 75. Botanical Garden, Tashkent. Tree to 25 feet high with coarsely dentate but unlobed leaves.

314184. *ACER* sp.

Col. No. 528. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Small tree to 30 feet high with coriaceous, tri-lobed leaves.

314185. *AEGILOPS CYLINDRICA* Host Gramineae. **Jointed goatgrass.**

Col. No. 65. VIR Central Asian Experiment Station, 26 km. from Tashkent.

314186. *AGROPYRON CRISTATUM* (L.) Gaertn. Gramineae.

Crested wheatgrass.

Col. No. 589. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Plants to 30 inches high.

314187. *AGROPYRON DESERTORUM* (Fisch. ex Link) Schult.

Standard wheatgrass.

Col. No. 558. Forestry Station at Sukok, 60 km. east of Tashkent.

314188. *AGROPYRON INTERMEDIUM* (Host) Beauv.

Intermediate wheatgrass.

Col. No. 551. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314189 to 314193. *AGROPYRON TRICHOPHORUM* (Link) Richt.

Stiffhair wheatgrass.

314189. Col. No. 532. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314190. Col. No. 542. Canyon on west side of Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314191. Col. No. 545. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314192. Col. No. 559. Forestry Station at Sukok, 60 km. east of Tashkent.

314193. Col. No. 584. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314194. *AGROPYRON* sp.

Col. No. 537. Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Stiff, narrow spikes, short-awned.

314195. *AGROPYRON* sp.

Col. No. 541. Canyon on west side of Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Nodding spikes.

314196. *AGROPYRON* sp.

Col. No. 568. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Short-beared spikelets.

314197. *AGROPYRON* sp.

Col. No. 590. Reserve, Chatkal Mountains, 70 km. east of Tashkent. To 4 feet high.

314138 to 314771—Continued

314198. AGROPYRON sp.

Col. No. 592. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314199. AGROPYRON sp.

Col. No. 601. Reserve, Chatkal Mountains, 70 km. east of Tashkent. To 4 feet high; beardless, narrow spike bunchgrass.

314200. AGROPYRON sp.

Col. No. 607. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314201. AGROPYRON sp.

Col. No. 608. Reserve, Chatkal Mountains, 70 km. east of Tashkent. To 4 feet high; short, straight awn.

314202. AGROPYRON sp.

Col. No. 609. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Slender, beardless spikes.

314203. AGROPYRON sp.

Col. No. 612. Reserve, Chatkal Mountains, 70 km. east of Tashkent. To 5 feet high; awns about 3/4 inch long.

314204. AGROPYRON sp.

Col. No. 631. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314205. AGROPYRON sp.

Col. No. 640. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Bearded bunchgrass.

314206. AGROPYRON sp.

Col. No. 641. New Section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Beardless bunchgrass; slender spike.

314207. AGROPYRON sp.

Col. No. 642. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Nodding spikes; awned; very leafy.

314208. AGROPYRON sp.

Col. No. 645. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Beardless bunchgrass.

314209. AGROPYRON sp.

Col. No. 646. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314210. AGROPYRON sp.

Col. No. 648. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Bearded spike.

314211. AGROPYRON sp.

Col. No. 659. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314212. ALLIUM sp. Liliaceae.

Col. No. 573. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314213. AMORPHA sp. Leguminosae.

Col. No. 71. Botanical Garden, Tashkent. Shrub to 8 feet high with odd pinnate leaves, purplish-blue flowers.

314138 to 314771—Continued**314214. AMYGDALUS sp. Rosaceae.**

Col. No. 637. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Thornless shrub about 3 feet high.

314215. ANDROPOGON sp. Gramineae.

Col. No. 553. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314216. ASTRAGALUS sp. Leguminosae.

Col. No. 38. Hills above Sukok, 65 km. east of Tashkent. Perennial, low, many stemmed, with short, dense racemes of inflated calices enclosing small, one seed pod.

314217. ASTRAGALUS sp.

Col. No. 540. Hillside above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Perennial with woody caudex; decumbent, branches 4 feet or more long.

From the vicinity of Fergana, Uzbekistan.

314218. ASTRAGALUS sp.

Col. No. 562. Forestry Station, Sukok, 60 km. east of Tashkent.

314219. ASTRAGALUS sp.

Col. No. 565. Forestry Station, Sukok, 60 km. east of Tashkent. Leaves and leaflets spine tipped; inflorescence a dense, tufted spike; ovaries tufted.

314220. ASTRAGALUS sp.

Col. No. 570. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Shrub to 3 feet high with odd-pinnate leaves, 11 to 15 leaflets.

314221. ASTRAGALUS CORRUGATUS Bert.

Col. No. 603. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314222. ASTRAGALUS sp.

Col. No. 613. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Four feet high. Pods scattered on leafy stem; many stems from caudex.

314223. ASTRAGALUS sp.

Col. No. 657. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Perennial herb to 3 feet high.

314224. ATRAPHAXIS sp. Polygonaceae.

Col. No. 567. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Shrub to 15 meters high; leaves light green, ovate, about 1.5 inches long, prominently veined.

314225. ATRAPHAXIS sp.

Col. No. 576. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Shrub to 6 feet high; leaves glaucous, ovate, to 1 inch long; veins inconspicuous.

314226. ATRAPHAXIS sp.

Col. No. 633. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Shrub to 4 feet high.

314227. BETULA PENDULA Roth Betulaceae.

Col. No. 78. Botanical Garden, Tashkent. Tree to 35 feet high, white bark.

314228. BETULA sp.

Col. No. 618. Two km. west of new section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Tree to 50 feet high.

314138 to 314771—Continued

314229. *BROMUS SCOPARIUS* L. Gramineae.

Col. No. 61. Tashkent Cemetery, Tashkent. Annual in dense clumps to 10 inches high.

314230. *BROMUS JAPONICUS* Thunb.

Col. No. 72. Botanical Garden, Tashkent. Low annual, weedy type, to 14 inches high with divergent awns.

314231. *BROMUS JAPONICUS* Thunb.

Col. No. 73. Botanical Garden, Tashkent. Annual, slightly taller than P.I. 314230, to 18 inches. Crowns less divergent.

314232. *BROMUS OXYODON* Schrenk

Col. No. 557. Forestry Station at Sukok, 60 km. east of Tashkent. Annual, to 2 feet high; loose, open panicle; awned.

314233. *CAREX* sp. Cyperaceae.

Col. No. 41. Hills above Sukok, 65 km. east of Tashkent. Elevation 4,000 feet. Perennial with basal leaves; flowering scape to 16 inches high; monoecious, male inflorescence above female.

314234. *CEANOTHUS* sp. Rhamnaceae.

Col. No. 70. Botanical Garden, Tashkent. Shrub, to 8 feet high; numerous, long, pendant branches.

314235. *CELTIS CAUCASICA* Willd. Ulmaceae.

Hackberry.

Col. No. 45. Chavlisi Natural Reserve, near Sukok, 65 km. east of Tashkent. Elevation to 6,000 feet. Small tree to 30 feet high.

314236. *CITRULLUS LANATUS* (Thunb.) Mansf. Cucurbitaceae.

Watermelon.

Col. No. 523. 'Khait Kara'. Central Asian Station of VIR, about 35 km. north of Tashkent.

314237. *CORNUS IBERICA* Hort. Cornaceae.

Col. No. 77. Botanical Garden, Tashkent. Opposite-leaved shrub to 10 feet high.

314238. *COTONEASTER* sp. Rosaceae.

Col. No. 81. Botanical Garden, Tashkent. Unarmed branching shrub to 9 feet high.

314239. *CROTALARIA JUNCEA* L. Leguminosae.

Col. No. 524. Central Asian Station of VIR, about 35 km. north of Tashkent. To 10 feet high, rather strict with few branches.

314240 to 314248. *DACTYLIS GLOMERATA* L. Gramineae. **Orchardgrass.**

314240. Col. 59. Tashkent Medical College Compound, Tashkent.

314241. Col. No. 67. VIR Central Asian Experiment Station, 26 km. Tashkent.

314242. Col. No. 546. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314243. Col. No. 587. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314244. Col. No. 600. Reserve, Chatkal Mountains. 70 km. east of Tashkent.

314245. Col. No. 610. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314246. Col. No. 643. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314138 to 314771—Continued**314240 to 314248—Continued**

314247. Col. No. 644. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314248. Col. No. 650. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314249. EPHEDRA sp. Gnetaceae.

Col. No. 571. Reserve, Chatkal Mountains, 70 km. east of Tashkent. To 6 feet high; sparsely fruiting.

314250. ERAGROSTIS sp. Gramineae.

Col. No. 554. Along Chir Chik River, Bostondik Mountains, 85 km. northeast of Tashkent. Annual to 10 inches high.

314251. FESTUCA ARUNDINACEA Schreb. Gramineae. Tall fescue.

Col. No. 581. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314252 and 314253. FESTUCA PRATENSIS Huds.

314252. Col. No. 547. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314253. Col. No. 619. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Awned.

314254. FESTUCA sp.

Col. No. 639. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314255. GLYCYRRHIZA sp. Leguminosae.

Col. No. 43. Hills above Shukok, 65 km. east of Tashkent. Elevation 4,000 feet. Large perennial herb; numerous long leaves; long fruiting racemes.

314256. GLYCYRRHIZA sp.

Col. No. 529. Canyon on west side of Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Perennial herb, to 26 inches high; leaves trifoliate; pods spiny.

314257. HIPPOPHAE RHAMNOIDES L. Eleagnaceae.

Col. No. 664. North of Parkent 20 km. Small tree, to 20 feet high; heavily laden with orange fruits.

314258. HORDEUM sp. Gramineae.

Col. No. 74. Botanical Garden, Tashkent. Annual to 14 inches high.

314259. LATHYRUS INCONSPICUUS L. Leguminosae.

Col. No. 48. Chavlisi Reserve, near Sukok, 65 km. east of Tashkent. Elevation 3,500 feet. Low annual, to 10 inches high; 2 to 6 pods per plant. Leaves about 1 inch long, 1/8 inch wide.

314260. VICIA MICHAUXII Spreng. Leguminosae.

Col. No. 49. Chavlisi Reserve, near Sukok, 65 km. east of Tashkent. Elevation 3,500 feet. Low annual, to 10 inches high; narrow leaves, many pods.

314261. LATHYRUS sp.

Col. No. 636. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers bright yellow.

314262. LOLIUM sp. Gramineae.

Col. No. 525. Along Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Perennial to 16 inches high; long spikes.

314138 to 314771—Continued

314263. *LONICERA* sp. Caprifoliaceae.

Col. No. 79. Botanical Garden, Tashkent. Much-branched shrub to 8 feet high.

314264. *LONICERA* sp.

Col. No. 80. Botanical Garden, Tashkent. Shrub to 10 feet high. Later maturing and with smaller fruits than P.I. 314263.

314265. *MEDICAGO LUPULINA* L. Leguminosae.

Black medic.

Col. No. 533. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314266 to 314280. *MEDICAGO SATIVA* L.

Alfalfa.

314266. Col. No. 521. 'Tashkent blue'. Central Asian Station of VIR, about 35 km. north of Tashkent.

314267. Col. No. 522. Central Asian Station of VIR, about 35 km. north of Tashkent.

314268. Col. No. 534. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Flowers blue; pods several coiled.

314269. Col. No. 535. Canyon on west side of Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Pods small, mostly one coiled.

314270. Col. No. 536. Canyon hillside west of Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Flowers blue; pods mostly two coiled.

314271. Col. No. 555. Along Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Flowers blue.

314272. Col. No. 564. Forestry Station, Sukok, 60 km. east of Tashkent. Flowers blue.

314273. Col. No. 574. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314274. Col. No. 577. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers blue.

314275. Col. No. 582. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers purple.

314276. Col. No. 614. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers blue; ripe pods black.

314277. Col. No. 620. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314278. Col. No. 622. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314279. Col. No. 652. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314280. Col. No. 656. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers blue.

314281. *MEDICAGO* sp.

Col. No. 596. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers blue.

314282. *MEDICAGO* sp.

Col. No. 654. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Pods *falcata*-like; no flowers seen.

314138 to 314771—Continued

314283. *MEDICAGO* sp.

Col. No. 658. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314284 to 314291. *MELILOTUS OFFICINALIS* (L.) Lam. Leguminosae.

Yellow sweetclover.

314284. Col. No. 527. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. To 6 feet high; flowers yellow.

314285. Col. No. 543. Hillside above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Flowers yellow.

314286. Col. No. 561. Forestry Station, Sukok, 60 km. east of Tashkent. Flowers yellow.

314287. Col. No. 569. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314288. Col. No. 579. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers yellow.

314289. Col. No. 629. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers white.

314290. Col. No. 630. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers yellow.

314291. Col. No. 649. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers yellow.

314292. *ONOBRYCHIS* sp. Leguminosae.

Col. No. 563. Forestry Station, Sukok, 60 km. east of Tashkent. Perennial, to 30 inches high.

314293. *ORYZOPSIS* sp. Gramineae.

Col. No. 595. Reserve, Chatkal Mountains, 70 km. east of Tashkent. To 3 feet high. Bunchgrass.

314294. *ORYZOPSIS* sp.

Col. No. 602. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314295. *ORYZOPSIS* sp.

Col. No. 617. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314296. *ORYZOPSIS* sp.

Col. No. 624. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Plant looks like fescue; seed looks like millet.

314297. *ORYZOPSIS* sp.

Col. No. 625. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Probably same as P.I. 314296, but broader leaves carried well up stem. Stems to 4 feet high.

314298. *ORYZOPSIS* sp.

Col. No. 647. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314299. *ORYZOPSIS* sp.

Col. No. 651. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Dense tuft of fine blue basal leaves. Seeds not fescuelike.

314300. *PHLEUM PRATENSE* L. Gramineae.

Col. No. 549. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314138 to 314771—Continued

- 314301 to 314306. *POA BULBOSA* L. Gramineae. **Bulbous bluegrass.**
 314301. Col. No. 42. Hills above Sukok, 65 km. east of Tashkent. Plants robust, to 24 inches high.
 314302. Col. No. 68. VIR Central Asian Experiment Station, 26 km. from Tashkent.
 314303. Col. No. 548. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.
 314304. Col. No. 556. Forestry Station at Sukok, 60 km. east of Tashkent.
 314305. Col. No. 585. Reserve, Chatkal Mountains, 70 km. east of Tashkent.
 314306. Col. No. 663. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314307. *POA ARARATICA* Trautv.
 Col. No. 538. Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.
314308. *POA* cf. *NEVSKII* Roshev.
 Col. No. 552. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.
314309. *POA* sp.
 Col. No. 572. Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314310. *POA* sp.
 Col. No. 591. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Rhizomatous.
314311. *POA ARARATICA* Trautv.
 Col. No. 597. Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314312. *POA* sp.
 Col. No. 605. Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314313. *POA STERILIS* Bieb.
 Col. No. 615. Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314314. *POA* sp.
 Col. No. 634. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314315. *POA* sp.
 Col. No. 660. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314316. *ROSA CANINA* L. Rosaceae. **Dog rose.**
 Col. No. 40. Hills above Sukok, 65 km. east of Tashkent. Elevation 4,500 feet. Perennial, thorny Rambler, flowers white or yellow. To 3 inches across.
314317. *ROSA* sp.
 Col. No. 76. Botanical Garden, Tashkent. Large Rambler, to 18 feet across, dense.
314318. *RUMEX* sp. Polygonaceae.
 Col. No. 46. Chavlisi Reserve near Sukok, 65 km. east of Tashkent. Elevation 3,500 feet. Shrub, wide spreading; to 6 feet high, with masses of inflorescences; flowering and fruiting bracts pinkish.

314138 to 314771—Continued

- 314319 to 314327. *SANGUISORBA MINOR* Scop. Rosaceae. Small burnet.
314319. Col. No. 39. Hills above Sukok, 65 km. east of Tashkent. Elevation 4,500 feet. Perennial, to 3 feet high; flowering scapes well above leafy stems.
314320. Col. No. 64. VIR Central Asian Experiment Station, 26 km. from Tashkent. Plants to 18 inches high with several fruiting scapes.
314321. Col. No. 530. Canyon on west side of Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent. Perennial herb to 18 inches high; seed retention good.
314322. Col. No. 566. Forestry Station, Sukok, 60 km. east of Tashkent.
314323. Col. No. 575. Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314324. Col. No. 580. Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314325. Col. No. 611. Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314326. Col. No. 627. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314327. Col. No. 653. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314328. *SORBUS* sp. Rosaceae.
- Col. 632. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Small tree, to 15 feet high; trunk 6 inches diameter breast high; orange pomes, 5 carpellate, ½-inch diameter; thorns on young growth.
314329. *STIPA CAPILLATA* L. Gramineae.
- Col. No. 661. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314330. *STIPA* sp.
- Col. No. 606. Reserve, Chatkal Mountains, 70 km. east of Tashkent. One foot high; badly shattered.
314331. *STIPA* sp.
- Col. No. 623. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Coarse green stems to 3 feet long; compressed panicle; seed thresh free of glumes, brown.
314332. *STIPA* sp.
- Col. No. 628. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314333. *STIPA* sp.
- Col. No. 655. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.
314334. *STIPA* sp.
- Col. No. 662. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Seed much longer than *Stipa capillata*; awn half again as long.
314335. *SYMPHORICARPOS* sp. Caprifoliaceae.
- Col. No. 82. Botanical Garden, Tashkent. Shrub to 8 feet high with glaucous opposite leaves. Fruits snow white, waxy.
314336. *TAENIATHERUM* sp.
- Col. No. 560. Forestry Station at Sukok, 60 km. east of Tashkent. Annual.

314138 to 314771—Continued

314337. *TARAXACUM KOK-SAGHYZ* Rodin Compositae. **Dandelion.**

Col. No. 62. VIR Central Asian Experiment Station, 26 km. from Tashkent. Perennial to 16 inches high with many scapes bearing large heads.

314338 to 314341. *TRIFOLIUM PRATENSE* L. Leguminosae. **Red clover.**

314338. Col. No. 66. VIR Central Asian Experiment Station, 26 km. from Tashkent.

314339. Col. No. 526. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314340. Col. No. 578. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314341. Col. No. 621. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314342 to 314346. *TRIFOLIUM REPENS* L. **White clover.**

314342. Col. No. 63. VIR Central Asian Experiment Station, 26 km. from Tashkent.

314343. Col. No. 550. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314344. Col. No. 583. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314345. Col. No. 604. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314346. Col. No. 616. Reserve, Chatkal Mountains, 70 km. east of Tashkent.

314347. *TRIFOLIUM* sp.

Col. No. 544. Hills above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314348. *TULIPA* sp. Liliaceae.

Col. No. 539. Hillside above Chir Chik River, Bostondik Mountains, 78 km. northeast of Tashkent.

314349. *VICIA* sp. Leguminosae.

Col. No. 635. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers purple, in dense racemes.

314350. *VICIA CRACCA* L. **Cow vetch.**

Col. No. 638. New section of Reserve, Chatkal Mountains, 70 km. east of Tashkent. Flowers purple, in dense racemes.

314351. (Undetermined.) Leguminosae.

Col. No. 47. Chavlisi Reserve near Sukok, 65 km. east of Tashkent. Elevation 3,500 feet. Annual or winter annual with deep taproot; branching, somewhat viny.

314352. (Undetermined.) Leguminosae.

Col. No. 593. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Perennial, low spreading, to 1 foot high; very leafy. Pods ovate to nearly orbicular, $\frac{1}{2}$ to $\frac{3}{4}$ inch long.

314353. (Undetermined.) Leguminosae.

Col. No. 594. Reserve, Chatkal Mountains, 70 km. east of Tashkent. Perennial, low, spreading, to 1 foot high; very leafy. Pods ovate to nearly orbicular, $\frac{1}{2}$ to $\frac{3}{4}$ inch long, some much larger.

From the vicinity of Stavropol.

314138 to 314771—Continued

314354 and 314355. *ALOPECURUS PRATENSIS* L. Gramineae.

Meadow foxtail.

314354. Col. No. 99. Lake Manich, western shore, 220 km. northeast of Stavropol. Perennial bunch former; culms to 30 inches high.

314355. Col. No. 124. East of Lake Manich near the Canal, Stavropol. Perennial to 30 inches high.

314356. *ALOPECURUS VENTRICOSUS* (Gouan) Huds.

Col. No. 115. Near New Maria Village, 30 km. west of Stavropol. Tall perennial, to 45 inches high.

314357. *ASTRAGALUS CALYCINUS* Bieb. Leguminosae.

Col. No. 128. Chogri Ravine, eastern part of Stavropol. Low, recumbent perennial; abundant bladderly pods on dense spikes; bladders white, 5 to 7 cm. diameter.

314358. *ASTRAGALUS LONGIFLORUS* Pall.

Col. No. 137. Forestry Experiment Station near Achikulak. Perennial to 14 inches high, flowers borne on dense spikes.

314359. *ASTRAGALUS ONOBRYCHIS* L.

Col. No. 135. Forestry Experiment Station near Achikulak. Low perennial, to 10 inches high, pods borne at base of leaves.

314360. *ASTRAGALUS* sp.

Col. No. 130. Chogri Ravine, eastern part of Stavropol. Low, recumbent perennial; pods 1 inch long, acute tipped, borne on root crown at surface of ground.

314361. *ASTRAGALUS* sp.

Col. No. 131. Chogri Ravine, eastern part of Stavropol. Low perennial with fine upright leaves; pods to 1 inch diameter, large, bladderly, borne at base of plant.

314362 and 314363. *BROMUS RIPARIUS* Rehm. Gramineae.

314362. Col. No. 84. Forty-five km. northeast of Stavropol. Perennial to 2 feet high.

314363. Col. No. 114. Nedremannaya Hill, 20 km. southwest of Stavropol. Perennial to 2 feet high.

314364. *BROMUS SQUARROSUS* L.

Col. No. 119. Southern shore of eastern end of Lake Manich. Low annual, to 8 inches high.

314365. *CAREX BORDZILOWSKII* Krecz. Cyperaceae.

Col. No. 110. Nedremannaya Hill, 20 km. southwest of Stavropol. Perennial to 12 inches high with female spikes below male.

314366. *CAREX VERNA* Chaix ex Vill.

Col. No. 98. Lake Manich, western shore, 220 km. northeast of Stavropol. Perennial to 14 inches high.

314367. *CATABROSA AQUATICA* Beauv. Gramineae.

Col. No. 116. Near New Maria Village, 30 km. west of Stavropol. Tall perennial with plumose panicles.

314368. *EREMOPYRUM ORIENTALE* (L.) Jaub. & Spach Gramineae.

Col. No. 92. On way to Lake Manich, 180 km. northeast of Stavropol. Low annual, to 8 inches high, with large caryopses.

314138 to 314771—Continued

314369. EREMOPYRUM PROSTRATUM Podpera

Col. No. 91. On way to Lake Manich, 180 km. northeast of Stavropol. Annual to 10 inches high; spikes resembling crested wheatgrass.

314370. ERODIUM CICUTARIUM (L.) L'Herit Geraniaceae. **Alfileria.**

Col. No. 105. Near Tatarka Village, 10 km. south of Stavropol. Robust, leafy plant, to 14 inches high.

314371. ERODIUM STEVENII Bieb.

Col. No. 111. Nedremannaya Hill, 20 km. southwest of Stavropol. Spreading perennial, leafy, to 8 inches high.

314372 to 314375. FESTUCA SULCATA Hack. Gramineae.

314372. Col. No. 85. Fifty-five km. northeast of Stavropol. Perennial to 14 inches high. Fine stemmed; basal cluster of glaucous, wiry leaves.

314373. Col. No. 88. On way to Lake Manich, 180 km. northeast of Stavropol. To 12 inches high.

314374. Col. No. 112. Nedremannaya Hill, 20 km. southwest of Stavropol. Perennial, bunch forming; fine leaves and stems; stems to 14 inches high.

314375. Col. No. 127. East of Lake Manich near canal. Perennial, bunch type, to 14 inches high.

314376. IRIS PUMIIA L. Iridaceae.

Col. No. 102. Island in Lake Manich, 220 km. northeast of Stavropol. Rhizomatous, fruit on short stalks not exerted beyond the leaves. Flower color ranges from white through reds, blues, purples, and variegated.

314377 to 314379. KOELERIA GRACILIS Pers. Gramineae.

314377. Col. No. 83. Forty-five km. northeast of Stavropol. Perennial to 16 inches high, fine stemmed.

314378. Col. No. 87. On way to Lake Manich, 180 km. northeast of Stavropol. To 14 inches high.

314379. Col. No. 122. East of Lake Manich near canal. Perennial, to 16 inches high, in clumps.

314380 and 314381. LINUM AUSTRIACUM L. Linaceae. **Austrian flax.**

314380. Col. No. 106. Near Tatarka Village, 10 km. south of Stavropol. Annual to 26 inches high. Erect, mostly single stemmed.

314381. Col. No. 129. Chogri Ravine, eastern part of Stavropol. Annual to 30 inches high. Fruits abundant.

314382. MEDICAGO MINIMA (L.) Grufberg ex L. Leguminosae. **Little medic.**

Col. No. 117. Near New Maria Village, 20 km. west of Stavropol. Appressed annual; fruits many.

314383. MEDICAGO sp.

Col. No. 118. Near New Maria Village, 20 km. west of Stavropol. Low, leafy, to 9 inches high.

314384. MEDICAGO SATIVA L.

Col. No. 139. 'Slavenskaya'. Stavropol Agricultural Research Institute. Highly uniform.

314385. MELILOTUS OFFICINALIS (L.) Lam. Leguminosae. **Yellow sweetclover.**

Col. No. 104. Lake Manich, 220 km. northeast of Stavropol.

314138 to 314771—Continued

314386. *MELILOTUS POLONICA* (L.) Desr.
Col. No. 138. Achikulak, Stavropol. Biennial to 2 meters high.
314387. *MUSCARI RACEMOSUM* (L.) Mill. Liliaceae. **Grape-hyacinth.**
Col. No. 107. Experimental Farm No. 5 of Sheep and Goat Breeding Institute, 40 km. east of Stavropol. Perennial, early spring flowering. Native.
314388. *PAPAVER DUBIUM* L. Papaveraceae.
Col. No. 132. Chogri Ravine, eastern part of Stavropol. Annual to 16 inches high; stiffly erect, several branches; flowers orange red.
314399. *PHLEUM PANICULATUM* Huds. Gramineae.
Col. No. 134. Near spillway of large canal to Manich, eastern Stavropol. Low annual, to 10 inches high.
314390. *POA ANGUSTIFOLIA* L. Gramineae.
Col. No. 90. On road to Lake Manich, 180 km. northeast of Stavropol. Perennial, clumps to 2 feet high.
- 314391 to 314393. *POA BULBOSA* L. **Bulbous bluegrass.**
314391. Col. No. 86. Fifty-five km. northeast of Stavropol. Annual to 16 inches high.
314392. Col. No. 108. Experimental Farm No. 5 of Sheep and Goat Breeding Institute, 40 km. east of Stavropol.
314393. Col. No. 126. East of Lake Manich near canal. Plants to 14 inches high.
314394. *SANGUISORBA MINOR* Scop. Rosaceae. **Small burnet.**
Col. No. 113. Nedremannaya Hill, 20 km. southwest of Stavropol. Perennial, to 14 inches high; leafy.
314395. *STIPA PENNATA LESSINGIANA* (Tr. & Rupr.) Richter Gramineae.
Col. No. 89. On road to Lake Manich, between Djulgar and Kievka, 180 km. northeast of Stavropol. Dense bunch perennial, to 18 inches high. Seeds and awns much shorter than *Stipa ucrainica*.
314396. *STIPA UCRAINICA* P. Smirnow
Col. No. 94. Western shore of Lake Manich, 220 km. northeast of Stavropol. Perennial, bunch type, to 18 inches high; seed awned, to 12 inches long.
314397. *TRIFOLIUM PARVIFLORUM* Ehrh. Leguminosae.
Col. No. 95. Western side of Lake Manich, 220 km. northeast of Stavropol. Low annual, to 7 inches high.
314398. *TRIGONELLA CAERULESCENS* Halacsy Leguminosae.
Col. No. 136. Forestry Experiment Station near Achikulak. Low annual, to 12 inches high; pods on strictly upright stems.
- 314399 and 314400. *TULIPA BIEBERSTEINIANA* Schult. f. Liliaceae.
314399. Col. No. 121. East of Lake Manich near canal. Perennial, to 12 inches high; flowers bright red, in April.
314400. Col. No. 133. Chogri Ravine, eastern part of Stavropol. Plants to 10 inches high; capsules larger than those seen at Lake Manich.
314401. *TULIPA SCHRENKII* Regel
Col. No. 103. Island in Lake Manich, 220 km. northeast of Stavropol. Short-stalked tulip; flowers large, brilliantly colored.

314138 to 314771—Continued

314402. *VICIA HIRSUTA* (L.) S. F. Gray Leguminosae.

Col. No. 96. Western shore Lake Manich, 220 km. northeast of Stavropol. Low annual, to 8 inches high.

314403. *VICIA TETRASPERMA* (L.) Moench.

Col. No. 101. Western shore Lake Manich, 220 km. northeast of Stavropol. Small, spindly annual to 10 inches high.

314404. *VICIA VILLOSA* Roth Leguminosae.

Hairy vetch.

Col. No. 100. Western shore Lake Manich, 220 km. northeast of Stavropol. Annual, spindly to 18 inches high.

314405. (Undetermined.) Gramineae.

Col. No. 97. Western shore Lake Manich, 220 km. northeast of Stavropol. Tribe *Aveneae*. Low annual, to 11 inches high. From the vicinity of Georgia.

314406. *AEGILOPS CYLINDRICA* Host Gramineae.

Jointed goatgrass.

Col. No. 147. Tbilisi Botanical Garden.

314407. *AEGILOPS TRIUNCIALIS* L.

Barb goatgrass.

Col. No. 148. Tbilisi Botanical Garden. Annual, to 10 inches high; awns divergent at maturity; spiklets not readily disarticulating.

314408 and 314409. *ANTHYLLIS CAUCASICA* (Grossh.) Juz. Leguminosae.

314408. Col. No. 155. Tbilisi Botanical Garden. Perennial; leaves pinnate with 5 lunar lobes.

314409. Col. No. 191. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Perennial, low, erect; 1 to 3 terminal heads of lowers; calyces white, corolla remnants rusty brown. Leaves 5, pinnate.

314410. *ARRHENATHERUM ELATIUS* (L.) Prial Gramineae. **Tall oatgrass.**

Col. No. 145. Tbilisi Botanical Garden. Perennial, to 3 feet high; shattering some after ripening.

314411. *ARTEMISIA* sp. Compositae.

Col. No. 220. Hillside near Park of Culture, Tbilisi. Perennial, caespitose, mat forming, silvery leaved. Fruiting spikes to 10 inches high.

314412. *ASPERULA* sp. Rubiaceae.

Col. No. 166. Tbilisi Botanical Institute. Low annual, to 8 inches high; cottony fruiting heads.

314413 to 314415. *ASTRAGALUS BRACHYCARPUS* Bieb. Leguminosae.

314413. Col. No. 172. Tbilisi Botanical Institute. Low perennial with basal leaves and upright flowering spikes. To 8 inches high.

314414. Col. No. 178. Lilo Village, 16 km. northeast of Tbilisi. Low annual with erect fruiting spikes to 8 inches high; pods narrow, cylindrical, curved into semicircle.

314415. Col. No. 193. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Perennial, low spreading; numerous, long fruiting racemes flat on ground. One small plant producing up to 30 pods.

314416 and 314417. *ASTRAGALUS BUNGEANUS* Boiss.

314416. Col. No. 200. Garchereti, 90 km. east of Tbilisi. Low perennial, to 10 inches high; with basal leaves and upright fruiting spikes.

314417. Col. No. 221. Hillside near Park of Culture, Tbilisi. Low perennial with fruiting spikes upright, to 8 inches long.

314138 to 314771—Continued

314418. *BRIZA MAXIMA* L. Gramineae. **Big quaking grass.**

Col. No. 187. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Perennial to 2 feet high.

314419. *BROMUS BIEBERSTEINII* Roem. & Schult. Gramineae.

Col. No. 163. Tbilisi Botanical Institute. Tall perennial, to 3 feet high; very fine leaved; bunch former; leaves mostly basal, dense.

314420. *BROMUS STERILIS* L.

Col. No. 169. Tbilisi Botanical Institute. Annual, to 16 inches high; open panicle; apparently larger and heavier than *B. tectorum*. Only 3 to 4 panicles per plant.

314421. *BROMUS* sp.

Col. No. 242. Hayfields below Lilo Village, 16 km. east of Tbilisi. Annual, to 14 inches high.

314422. *CERCIS SILIQUASTRUM* L. Leguminosae.

Col. No. 150. Tbilisi Botanical Garden. Small tree; flowers and fruit prolific.

314423. *COLUTEA ORIENTALIS* Mill. Leguminosae. **Oriental bladder-senna.**

Col. No. 157. Tbilisi Botanical Garden. Shrub to 3 meters high; produces abundance of bladdery pods.

314424. *CRAMBE* sp. Cruciferae.

Col. No. 240. Hayfields below Lilo Village, 16 km. east of Tbilisi. Perennial, profusely branched, to 4 feet high; tumbleweed form; very heavy seeder.

314425. *CUCUMIS* sp. Cucurbitaceae.

Col. No. 195. 'Nejinske'. Market in Tbilisi.

314426. *CUCUMIS* sp.

Col. No. 196. 'Mukranke'. Market in Tbilisi.

314427. *CUCUMIS* sp.

Col. No. 194. 'Koljoznitza'. Market in Tbilisi.

314428. *CUPRESSUS* sp. Pinaceae.

Col. No. 203. Poet Charchavadzes estate near Telavi. Tall columnar tree with branches appressed to trunk to near ground.

314429 to 314433. *DACTYLIS GLOMERATA* L. Gramineae. **Orchardgrass.**

314429. Col. No. 156. Tbilisi Botanical Garden.

314430. Col. No. 161. Tbilisi Botanical Institute.

314431. Col. No. 190. Hills west of Noreo Village, 18 km. northeast of Tbilisi.

314432. Col. No. 206. Enampta hayfields, southeast of Telavi. To 30 inches high.

314433. Col. No. 214. Sagarega, 50 km. east of Tbilisi. Plants to 20 inches high.

314434. *EREMOPYRUM* sp. Gramineae.

Col. No. 233. Hayfields below Lilo Village, 16 km. east of Tbilisi. Annual, to 4 inches high, spikes to 2 inches long.

314435. *FESTUCA PRATENSIS* Huds. Gramineae.

Col. No. 159. Reservoir 6 km. north of Tbilisi. Perennial, to 30 inches high here.

314138 to 314771—Continued

- 314436 and 314437. *FESTUCA SULCATA* Hack.
 314436. Col. No. 141. Tbilisi Botanical Garden. Perennial bunch former, to 16 inches high.
 314437. Col. No. 192. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Perennial bunch former, mostly with reddish stems but variable.
314438. *FRAGARIA VESCA* L. Rosaceae. **European strawberry.**
 Col. No. 189. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Low perennial; fruits small, numerous, aromatic, sweet.
314439. *GERANIUM COLUMBINUM* L. Geraniaceae. **Cranesbill.**
 Col. No. 241. Hayfields below Lilo Village, 16 km. east of Tbilisi. Perennial, to 1 foot high, leafy; beaks of fruit shorter than *Erodium cicutarium*.
314440. *KOELERIA GRACILIS* Pers. Gramineae.
 Col. No. 144. Tbilisi Botanical Garden. Perennial, to 18 inches high; bunch forming.
314441. *LABURNUM ANAGYROIDES* Medic. Leguminosae. **Goldenchain.**
 Col. No. 175. Tbilisi Botanical Institute. Small unarmed tree, to 6 meters high; numerous panicles of pendant pods.
314442. *LATHYRUS CICERA* L. Leguminosae. **Flat peavine.**
 Col. No. 177. Lilo Village, 16 km. northeast of Tbilisi. Annual, to 16 inches high; narrow, linear leaflets; pods plump, green, mottled with rusty brown.
314443. *LATHYRUS ROSEUS* Stev.
 Col. No. 160. Tbilisi Botanical Garden. Annual, to 18 inches high; viny; pods numerous.
314444. *LATHYRUS* sp.
 Col. No. 207. Enampta hayfields, 80 km. southeast of Telavi. Annual, to 14 inches high.
314445. *LINUM AUSTRIACUM* L. Linaceae. **Austrian flax.**
 Col. No. 154. Tbilisi Botanical Garden.
314446. *LOLIUM PERSICUM* Boiss. & Hohen. Gramineae.
 Col. No. 215. Sagarega, 50 km. east of Tbilisi. Single plant; spikes and spikelets larger than normal.
- 314447 and 314448. *LOLIUM RIGIDUM* Gaud. **Wimmera ryegrass.**
 314447. Col. No. 149. Tbilisi Botanical Garden. Perennial, to 18 inches high; spikelets recessed in rachis.
 314448. Col. No. 208. Enampta hayfields, 80 km. southeast of Telavi. Perennial, to 2 feet high; stiffly erect.
- 314449 to 314451. *LOTUS CORNICULATUS* L. Leguminosae. **Birdsfoot trefoil.**
 314449. Col. No. 184. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Perennial, leafy, fine stemmed; flowers large, yellow; pods 2 to 3 cm. long, black at maturity.
 314450. Col. No. 211. Sagarega, 50 km. east of Tbilisi. Perennial, to 1 foot high.
 314451. Col. No. 226. Hills above Lilo Village, 16 km. east of Tbilisi.

314138 to 314771—Continued

- 314452 and 314453. *MEDICAGO COERULEA* Less. ex Ledeb. Leguminosae.
 314452. Col. No. 224. Hillside near Park of Culture, Tbilisi. Perennial, branches ascending, to 16 inches high; flowers purplish.
 314453. Col. No. 232. Hayfields below Lilo Village, 16 km. east of Tbilisi. Perennial; here mostly prostrate; flowers purplish.
- 314454 and 314455. *MEDICAGO LUPULINA* L. Black medic.
 314454. Col. No. 183. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Perennial, reclining; fruiting heads from near base to tip.
 314455. Col. No. 210. Sararega, 50 km. east of Tbilisi. Perennial, low spreading.
314456. *MEDICAGO MINIMA* (L.) Grufberg ex L. Little medic.
 Col. No. 235. Hayfields below Lilo Village, 16 km. east of Tbilisi. Annual, low, to 6 inches high.
- 314457 and 314458. *MEDICAGO ORBICULARIS* (L.) All. Buttonclover.
 314457. Col. No. 180. Lilo Village, 16 km. northeast of Tbilisi. Biennial, stems viny, to 16 inches long.
 314458. Col. No. 243. Near the lake, 7 km. northeast of Tbilisi. Low, spreading, to 10 inches long.
- 314459 and 314460. *MEDICAGO RIGIDULA* Desr. In Lam. Tifton medic.
 314459. Col. No. 181. Lilo Village, 16 km. northeast of Tbilisi. Low annual, to 8 inches high; pods numerous, barrel shaped.
 314460. Col. No. 236. Hayfields below Lilo Village, 16 km. east of Tbilisi. Annual to 7 inches high; burs with short, coarse spines.
314461. *MEDICAGO SATIVA* L. Alfalfa.
 Col. No. 238. Hayfields below Lilo Village, 16 km. east of Tbilisi. Flowers purple.
314462. *MEDICAGO* sp.
 Col. No. 244. Near lake, 7 km. northeast of Tbilisi. Perennial; burs with longer spines than in *M. rigidula*.
314463. *MELICA TAURICA* K. Koch Gramineae.
 Col. No. 140. Tbilisi Botanical Garden. Perennial; culms to 30 inches high.
- 314464 and 314465. *MELILOTUS OFFICINALIS* (L.) Lam. Leguminosae.
 Yellow sweetclover.
 314464. Col. No. 158. Tbilisi Botanical Gardens. To 3 feet high.
 314465. Col. No. 209. Sagarega, 50 km. east of Tbilisi. To 3 feet high.
314466. *MELILOTUS* sp.
 Col. No. 217. Hillside near Park of Culture, Tbilisi. Annual to 14 inches high; many fruiting racemes.
- 314467 and 314468. *ONOBRYCHIS CYRI* Grossh. Leguminosae.
 314467. Col. No. 142. Tbilisi Botanical Garden. Recumbent annual, to 14 inches high; erect fruiting spikes.
 314468. Col. No. 225. Hills above Lilo Village, 16 km. east of Tbilisi. Perennial, to 16 inches high.
- 314469 and 314470. *ONOBRYCHIS KACHETICA* Boiss.
 314469. Col. No. 143. Tbilisi Botanical Garden. Perennial, to 30 inches high, branching; fruiting racemes elongate, arcuate.

314138 to 314771—Continued

314469 and 314470—Continued

314470. Col. No. 197. Garchereti, 90 km. east of Tbilisi. Perennial, to 30 inches high; long racemes bearing numerous fruits.

314471. *PHLEUM PHLEOIDES* (L.) Karst. Gramineae.

Col. No. 170. Tbilisi Botanical Institute. Plants to 18 inches high.

314472. *POA BULBOSA* L. Gramineae. **Bulbous bluegrass.**

Col. No. 146. Tbilisi Botanical Garden. Perennial to 14 inches high.

314473. *POLYGALA* sp. Polygalaceae.

Col. No. 228. Hills above Lilo Village, 16 km. east of Tbilisi. Low perennial herb, to 12 inches high; racemes 3 to 6 inches long bearing pinkish-lavender flowers.

314474 and 314475. *POTENTILLA RECTA* L. Rosaceae.

314474. Col. No. 171. Tbilisi Botanical Institute. Perennial, to 16 inches high, much branched, leafy.

314475. Col. No. 231. Hills above Lilo Village, 16 km. east of Tbilisi. Perennial, to 16 inches high, stiffly erect with several corymbs per plant.

314476. *RESEDA LUTEOLA* Linn. Resedaceae.

Col. No. 151. Tbilisi Botanical Garden. Perennial, branching, to 30 inches high; numerous fruiting spikes; leaves pinnately lobed.

314477. *ROSA* sp. Rosaceae.

Col. No. 230. Hills above Lilo Village, 16 km. east of Tbilisi. Shrub, to 3 feet high; profusely branched and fruiting heavily.

314478 to 314480. *SANGUISORBA MINOR* Scop. Rosaceae. **Small burnet.**

314478. Col. No. 185. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Perennial, to 18 inches high, leafy.

314479. Col. No. 198. Garchereti, 90 km. east of Tbilisi. Perennial, to 18 inches high, leafy.

314480. Col. No. 213. Sagarega, 50 km. east of Tbilisi. Perennial, to 16 inches high.

314481. *SCABIOSA* sp. Dipsacaceae.

Col. No. 153. Tbilisi Botanical Garden. Perennial, to 20 inches high; leafy.

314482. *STIPA PENNATA LESSINGIANA* (Tr. & Rupr.) Richter Gramineae.

Col. No. 182. Lilo Village, 16 km. northeast of Tbilisi. Perennial bunch grass, to 20 inches high.

314483. *STIPA* sp.

Col. No. 219. Hillside near Park of Culture, Tbilisi. Perennial bunch former, culms to 24 inches high.

314484. *TRIFOLIUM AMBIGUUM* Bieb. Leguminosae. **Kura clover.**

Col. No. 152. Tbilisi Botanical Garden. Perennial to 16 inches high, robust; flowers roseate.

314485. *TRIFOLIUM CAMPESTRE* Schreb. **Large hop clover.**

Col. No. 165. Tbilisi Botanical Institute. Low annual, to 6 inches high; florets reflexed at maturity.

314486. *TRIFOLIUM NEGLECTUM* C.A.M.

Col. No. 164. Tbilisi Botanical Institute. Perennial, to 10 inches high, low spreading.

314138 to 314771—Continued

314487. *TRIFOLIUM PRATENSE* L. **Red clover.**
Col. No. 188. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Perennial, to 14 inches high, robust, many heads,
314488. *TRIFOLIUM SCABRUM* L. **Rough clover.**
Col. No. 168. Tbilisi Botanical Institute. Low annual, to 6 inches high; stiff, bristly calyces.
314489. *TRIFOLIUM TUMENS* Stev. ex Bieb.
Col. No. 186. Hills west of Noreo Village, 18 km. northeast of Tbilisi. Bunch-perennial, reclining stems to 14 inches long.
314490. *TRIFOLIUM* sp.
Col. No. 204. Poet Chavchavadze estate near Telavi. Perennial, spreading; not appearing stoloniferous nor rhizomatous. Flowers yellow.
314491. *TRIFOLIUM* sp.
Col. No. 205. Poet Chavchavadze estate near Telavi. Perennial, spreading by stolons.
314492. *TRIFOLIUM* sp.
Col. No. 229. Hills above Lilo Village, 16 km. east of Tbilisi. Perennial, to 10 inches high; flowers yellow.
314493. *TRIFOLIUM* sp.
Col. No. 239. Hayfields below Lilo Village, 16 km. east of Tbilisi. Low perennial, to 10 inches high; flowers yellow.
- 314494 to 314497. *TRIGONELLA SPICATA* Sibth. & Sm. Leguminosae.
314494. Col. No. 173. Tbilisi Botanical Institute. Annual, to 14 inches high, upright, branching; numerous, narrow fruiting racemes.
314495. Col. No. 179. Lilo Village, 16 km. northeast of Tbilisi. Annual, to 14 inches high; pods pendant in dense spike.
314496. Col. No. 201. Garchereti, 90 km. east of Tbilisi. Annual, to 16 inches high.
314497. Col. No. 227. Hills above Lilo Village, 16 km. east of Tbilisi. Perennial, to 14 inches high; long fruiting spikes; basal leaves.
314498. *TRisetum RIGIDUM* (Marsch-Bieb.) Roem. & Schult Gramineae.
Col. No. 162. Tbilisi Botanical Institute. Perennial bunch-former, to 30 inches high; shatters at maturity.
- 314499 and 314500. *VICIA ANGUSTIFOLIA* L. Leguminosae.
314499. Col. No. 176. Lilo Village, 16 km. northeast of Tbilisi. Annual, to 12 inches high; numerous black pods.
314500. Col. No. 237. Hayfields below Lilo Village, 16 km. east of Tbilisi. Annual, to 2 feet high; numerous pods.
314501. *VICIA ERVILIA* (L.) Willd. **Bitter vetch.**
Col. No. 218. Park of Culture on hill above Tbilisi. Low annual, to 8 inches high; numerous pods.
314502. *VICIA PEREGRINA* L.
Col. No. 167. Tbilisi Botanical Institute. Viny annual, to 14 inches high; numerous pods.
314503. *VICIA NARBONENSIS* L.
Col. No. 216. Sagarega, 50 km. east of Tbilisi. Annual, stout with squarrose stem, to 14 inches high.

314138 to 314771—Continued

314504. *VICIA SATIVA* L.

Col. No. 212. Sagarega, 50 km. east of Tbilisi. Annual, much-branched, to 18 inches high; leaflets small, narrow.

314505. (Undetermined.) Leguminosae.

Col. No. 199. Garchereti, 90 km. east of Tbilisi. Low annual, to 9 inches high, upright with terminal, leafy raceme of sessile fruits. Pods black, shiny, mostly two-seeded.

314506. (Undetermined.)

Col. No. 222. Hillside near Park of Culture, Tbilisi. Low evergreen perennial with alternate, needlelike leaves; flowers yellow. Fruits heavily.

314507. (Undetermined.)

Col. No. 234. Hayfields below Lilo Village, 16 km. east of Tbilisi. Monocot, plant resembles pine seedling. Fruits on narrow leafless racemes. Berry green, variegated, horizontally striped.

From the vicinity of Krasnodar.

314508. *AGROPYRON SIBIRICUM* (Willd.) Beauv. Gramineae.

Siberian wheatgrass.

Col. No. 252. VIR Kuban Station. To 30 inches high.

314509 and 314510. *ARRHENATHERUM ELATIUS* (L.) Prial Gramineae.

Tall oatgrass.

314509. Col. No. 267. Sixteen km. west of Otradnaya. To 40 inches high.

314510. Col. No. 284. Thirty km. west of Otradnaya.

314511 and 314512. *BRIZA MAXIMA* L. Gramineae. Big quaking grass.

314511. Col. No. 271. Sixteen km. west of Otradnaya. Perennial to 30 inches high.

314512. Col. No. 295. South of Otradnaya, 39 km.

314513 to 314515. *BROMUS RIPARIUS* Rehm. Gramineae.

314513. Col. No. 268. Sixteen km. west of Otradnaya. To 36 inches high.

314514. Col. No. 282. Twenty km. west of Otradnaya.

314515. Col. No. 292. South of Otradnaya, 30 km.

314516. *BROMUS RIPARIUS* Rehm.

Col. No. 264. Hills 15 km. east of Armavir. Perennial, to 30 inches high with large panicles.

314517 to 314520. *DACTYLIS GLOMERATA* L. Gramineae. Orchardgrass.

314517. Col. No. 247. 'Krasnodar No. 20'. Given by Krasnodar Agricultural Research Institute. Perennial, to 3 feet high.

314518. Col. No. 266. West of Otradnaya, 16 km. To 40 inches high.

314519. Col. No. 283. West of Otradnaya, 20 km.

314520. Col. No. 294. West of Otradnaya, 39 km.

314521. *ELYMUS JUNCEUS* Fisch. Gramineae.

Russian wildrye.

Col. No. 249. VIR Kuban Station. To 40 inches high.

314522 and 314523. *FESTUCA OVINA* L. Gramineae.

Sheep fescue.

314522. Col. No. 275. West of Otradnaya, 18 km. To 14 inches high.

314523. Col. No. 293. South of Otradnaya, 39 km.

314138 to 314771—Continued

314524 to 314528. *FESTUCA PRATENSIS* Huds.

314524. Col. No. 248. 'Krasnodar No. 14'. Given by Krasnodar Agricultural Research Institute.

314525. Col. No. 258. East of Armavir, 15 km. Perennial, to 2 feet high.

314526. Col. No. 272. West of Otradnaya, 16 km. To 30 inches high.

314527. Col. No. 281. West of Otradnaya, 20 km.

314528. Col. No. 296. South of Otradnaya, 39 km.

314529. *FRAGARIA MOSCHATA* Duchesne Rosaceae. Hautbois strawberry.

Col. No. 277. West of Otradnaya, 20 km. Leaves and berries on long stalks; plants growing in dense vegetation of wild hayfield. Flavor similar to muscadine grape.

314530 and 314531. *HELIANTHUS ANNUUS* L. Compositae. Sunflower.

314530. Col. No. 298. Purchased in market, Armavir. Seeds solid black.

314531. Col. No. 299. Purchased in market, Armavir. Seeds black and white striped.

314532. *KOELERIA CAUCASICA* Trin. ex Domin Gramineae.

Col. No. 262. Hills, 15 km. east of Armavir. Perennial, culms to 16 inches high; bunch former.

314533. *KOELERIA GRACILIS* Pers.

Col. No. 279. West of Otradnaya, 20 km.

314534. *LINUM AUSTRIACUM* L. Linaceae. Austrian flax.

Col. No. 255. East of Armavir, 18 km. Annual, to 2 feet high; sparsely branching.

314535. *LOTUS CAUCASICUS* Kuprian Leguminosae.

Col. No. 260. Hills 15 km. east of Armavir. Perennial, to 1 foot high; leaves appear more pubescent than those of *Lotus corniculatus*.

314536 and 314537. *LOTUS CORNICULATUS* L. Birdsfoot trefoil.

314536. Col. No. 251. VIR Kuban Station.

314537. Col. No. 291. South of Otradnaya, 39 km. To 18 inches high.

314538 and 314539. *MEDICAGO LUPULINA* L. Leguminosae. Black medic.

314538. Col. No. 257. Hills 15 km. east of Armavir. Perennial, mostly prostrate but with ascending tips; heavy seeder.

314539. Col. No. 276. West of Otradnaya, 18 km.

314540. *MEDICAGO ORBICULARIS* (L.) All. Buttonclover.

Col. No. 261. Hills 15 km. east of Armavir. Annual to 8 inches high.

314541. *ONOBRYCHIS ANATASIATICA* Khin. Leguminosae.

Col. No. 246. 'Krasnodar No. 2834'. Given by Krasnodar Agricultural Research Institute. Perennial to 1 meter high.

314542. *ONOBRYCHIS TANAITICA* Spreng.

Col. No. 250. VIR Kuban Station. Perennial, to 40 inches high; coarse stemmed.

314543 to 314545. *ONOBRYCHIS TRANSCAUCASIA* Grossh.

314543. Col. No. 256. East of Armovir, 17 km. Perennial, to 20 inches high; long fruiting spikes and basal cluster of fine leaves.

314544. Col. No. 290. South of Otradnaya, 39 km.

314138 to 314771—Continued

314543 to 314545—Continued

314545. Col. No. 297. West of Otradnaya, 20 km.

314546. *PAEONIA TENUIFOLIA* L. Ranunculaceae. **Fringed peony.**

Col. No. 254. East of Armovir, 18 km. Perennial, to 1 foot high; dense cluster of linear leaves.

314547. *PRIMULA MACROCALYX* Bunge Primulaceae.

Col. No. 285. West of Otradnaya, 30 km. Perennial, to 10 inches high; stiffly erect with a corymb of 4 to 6 flowers.

314548 to 314550. *SANGUISORBA MINOR* Scop. Rosaceae. **Small burnet.**

314548. Col. No. 259. East of Armovir, 15 km. Perennial, to 14 inches high; very early.

314549. Col. No. 278. West of Otradnaya, 20 km. To 16 inches high.

314550. Col. No. 289. South of Otradnaya, 39 km.

314551. *TRIFOLIUM ALPESTRE* L. Leguminosae. **Purple globe clover.**

Col. No. 273. West of Otradnaya, 18 km. Perennial, to 1 foot high; long; lanceolate bracts immediately beneath the head.

314552 to 314554. *TRIFOLIUM AMBIGUUM* Bieb. **Kura clover.**

314552. Col. No. 263. Hills 15 km. east of Armovir. Perennial, to 10 inches high; numerous leaves; many heads.

314553. Col. No. 270. West of Otradnaya, 16 km. Head on long, naked stipe.

314554. Col. No. 286. South of Otradnaya, 39 km.

314555 and 314556. *TRIFOLIUM PRATENSE* L. **Red clover.**

314555. Col. No. 269. West of Otradnaya, 16 km.

314556. Col. No. 287. South of Otradnaya, 39 km.

314557. *TRIFOLIUM SPADICEUM* L.

Col. No. 280. West of Otradnaya, 20 km. Annual; spreading; flowers yellow, florets reflexed in fruit.

314558. *TRITICUM* sp. Gramineae.

Col. No. 253. East of Armovir, 20 km.

314559. *VICIA CRACCA* L. Leguminosae. **Cow vetch.**

Col. No. 274. West of Otradnaya, 18 km. Viny annual, to 3 feet high.

314560. *VICIA PANNONICA* Crantz

Col. No. 245. 'Krasnodar No. 59'. Given by Krasnodar Agricultural Research Institute. Grown as winter annual.

314561. *VICIA TETRASPERMA* (L.) Moench

Col. No. 265. Hills 15 km. east of Armovir. Annual, delicate, fine leaved, viny, to 16 inches high; numerous four-seeded pods.

From the vicinity of Moscow.

314562. *AGROSTIS* sp. Gramineae.

Col. No. 324. Druzshbi Park, Moscow. Perennial, to 30 inches high; broad, open panicle.

314563 and 314564. *ALOPECURUS PRATENSIS* L. Gramineae. **Meadow foxtail.**

314563. Col. No. 303. North of Riazan, 28 km. To 3 feet high.

314138 to 314771—Continued

314563 and 314564—Continued

314564. Col. No. 318. Druzshbi Park, Moscow. To 34 inches high.
314565. *ALOPECURUS GENICULATUS* L.
Col. No. 321. Druzshbi Park, Moscow. Perennial, rhizomatous, to 1 foot high; glaucous, bluish leaves and culms.
314566. *ANTHOXANTHUM ODORATUM* L. Gramineae. Sweet vernalgrass.
Col. No. 314. Northwest of Riazan, 32 km. Perennial, to 18 inches high; narrow, dense panicle.
314567. *BROMUS INERMIS* Leyss. Gramineae. Smooth bromegrass.
Col. No. 319. Druzshbi Park. To 40 inches high.
314568. *DACTYLIS GLOMERATA* L. Gramineae. Orchardgrass.
Col. No. 323. Druzshbi Park. To 3 feet high.
- 314569 and 314570. *FESTUCA PRATENSIS* Huds. Gramineae.
314569. Col. No. 302. North of Riazan, 28 km.
314570. Col. No. 320. Druzshbi Park, Moscow. To 3 feet high.
314571. *FESTUCA* sp.
Col. No. 317. Druzshbi Park, Moscow. Perennial, slender, to 20 inches high; panicle strict.
314572. *GLYCERIA* sp. Gramineae.
Col. No. 328. Druzshbi Park, Moscow. Perennial, slender, to 18 inches high; bunch former; spikes elongate, spikelets few, scattered, appressed to rachis.
314573. *GLYCINE* sp. Leguminosae.
Col. No. 308. Northwest of Riazan, 32 km. Perennial, bunch forming, tight basal cluster of fine leaves. Culms to 14 inches high; spikelets on one side of spike.
314574. *KOELERIA GRACILIS* Pers. Gramineae.
Col. No. 309. Northwest of Riazan, 32 km. To 2 feet high.
314575. *LOTUS CORNICULATUS* L. Leguminosae. Birdsfoot trefoil.
Col. No. 313. Northwest of Riazan, 32 km. Plants recumbent, spreading close to ground; flowers orange in bud, yellow when open. Heavy seeder.
314576. *MEDICAGO FALCATA* L. Leguminosae.
Col. No. 330. 'Dedinskaya Yellow'. From Williams Fodder Institute, Moscow.
- 314577 and 314578. *MEDICAGO LUPULINA* L. Black medic.
314577. Col. No. 315. Northwest of Riazan, 18 km. Plants vigorous, recumbent, to 18 inches long.
314578. Col. No. 329. Druzshbi Park, Moscow.
314579. *MEDICAGO FALCATA* L.
Col. No. 331. 'Pavlovsk No. 7'. From Williams Fodder Institute, Moscow.
314580. *MEDICAGO SATIVA* L. Alfalfa.
Col. No. 332. 'Northern hybrid'. Williams Fodder Institute, Moscow.
314581. *PHALARIS ARUNDINACEA* L. Gramineae. Reed canarygrass.
Col. No. 304. North of Riazan, 28 km. To 4 feet high.

314138 to 314771—Continued

314582. *POA PRATENSIS* L. Gramineae. **Kentucky bluegrass.**
Col. No. 316. Druzshbi Park, Moscow. To 20 inches high.
314583. *POA* sp.
Col. No. 306. North of Riazan, 28 km. To 30 inches high; rather compact panicle.
- 314584 to 314587. *TRIFOLIUM PRATENSE* L. Leguminosae. **Red clover.**
314584. Col. No. 300. Miknevo Station of VIR, 80 km. south of Moscow. To 18 inches high.
314585. Col. No. 305. North of Riazan, 28 km. To 2 feet high.
314586. Col. No. 307. Northwest of Riazan, 32 km. To 16 inches high.
314587. Col. No. 326. Druzshbi Park, Moscow.
- 314588 and 314589. *TRIFOLIUM REPENS* L. **White clover.**
314588. Col. No. 312. Northwest of Riazan, 32 km. Perennial, spreading by stolons; flowers white; flowering stalks to 8 inches high.
314589. Col. No. 322. Druzshbi Park, Moscow.
314590. *TRIFOLIUM* sp.
Col. No. 301. Miknevo Station of VIR, 80 km. south of Moscow. Annual, to 1 foot high; maturing heads dark bronze; florets reflexed.
314591. *TRIFOLIUM* sp.
Col. No. 310. Northwest of Riazan, 32 km. Perennial; to 18 inches high; rather stiffly erect; heads 1 cm. across; florets white.
314592. *VICIA ANGUSTIFOLIA* L. Leguminosae.
Col. No. 327. Druzshbi Park, Moscow. Viny annual, stems to 3 feet long. Leaflets 7 to 9, narrow, only slightly pubescent. From the vicinity of Kazakhstan.
314593. *AEGILOPS CYLINDRICA* Host Gramineae. **Jointed goatgrass.**
Col. No. 402. East of Alma Ata, 50 km.
314594. *AELUROPUS LITTORALIS* (Gouan) Parl. Gramineae.
Col. No. 482. Northwest of Kokpek, 54 km. and about 145 km. northeast of Alma Ata. Rhizomatous; culms to 1 foot high.
314595. *AGROPYRON* (hybird). Gramineae.
Col. No. 361. *A. sibiricum* × *desertorum*. Near Cholak Espe, 250 km. northwest of Alma Ata. To 14 inches high.
- 314596 to 314602. *AGROPYRON CRISTATUM* (L.) Gaertn. **Crested wheatgrass.**
314596. Col. No. 353. Alma Ata.
314597. Col. No. 354. Village Cholak Espe, 250 km. northwest of Alma Ata. To 14 inches high.
314598. Col. No. 374. Near Aksenger River, 2 km. south of Moscow-Alma Ata railroad.
314599. Col. No. 431. West of Game Preserve headquarters, 19 km., and about 180 km. east of Alma Ata.
314600. Col. No. 440. West of Game Preserve headquarters, 21 km., and about 180 km. east of Alma Ata.
314601. Col. No. 461. Low mountains 20 km. north of Game Preserve headquarters, about 180 km. east of Alma Ata. Plants to 16 inches high.

314138 to 314771—Continued

314596 to 314602—Continued

314602. Col. No. 505. Near Karagali, 50 km. west of Alma Ata.

314603 and 314604. AGROPYRON DESERTORUM (Fisch. ex Link) Schult.
Standard wheatgrass.

314603. Col. No. 506. Near Kragali, 50 km. west of Alma Ata. Types ranged from near *A. cristatum* to *sibiricum*.

314604. Col. No. 507. Near Kaagali, 50 km. west of Alma Ata.

314605 to 314608. AGROPYRON SIBIRICUM (Willd.) Beauv.
Siberian wheatgrass.

314605. Col. No. 356. Near Cholak Espe, 250 km. northwest of Alma Ata. To 16 inches high.

314606. Col. No. 362. Sandhills west of Cholak Espe, 250 km. northwest of Alma Ata.

314607. Col. No. 364. Sandhills west of Cholak Espe, 250 km. northwest of Alma Ata.

314608. Col. No. 365. Sandhills west of Cholak Espe, 250 km. northwest of Alma Ata.

314609. AGROPYRON TRACHYCAULUM (Link) Malte

Col. No. 393. Along Alma Atinka River, 20 km. above Alma Ata. Rhizomatous, apparently; short plum spikes with long outer glumes. Appears to be self fertile.

314610. AGROPYRON TRICHOPHORUM (link) Richt. Stiffhair wheatgrass.

Col. No. 508. Near Karagali, 50 km. west of Alma Ata.

314611. AGROPYRON sp.

Col. No. 343. Mountain foothills 16 km. south of Alma Ata. Perennial, to 46 inches high.

314612. AGROPYRON CANINUM (L.) Beauv.

Col. No. 345. Mountain foothills 16 km. south of Alma Ata. To 42 inches high; spikes bearded.

314613. AGROPYRON sp.

Col. No. 371. Along Aksenger River near Moscow-Alma Ata railroad. Culms to 28 inches high, slender; apparently rhizomatous.

314614. AGROPYRON sp.

Col. No. 376. Along Alma Atinka River 20 km. above Alma Ata. Bunch-type perennial to 40 inches high; stems and spikes reddish; spikes strictly erect.

314615. AGROPYRON CANINUM (L.) Beauv.

Col. No. 379. Along Alma Atinka River, 20 km. above Alma Ata. Spikelets awned.

314616. AGROPYRON cf. CANINUM (L.) Beauv.

Col. No. 384. Along Alma Atinka River, 20 km. above Alma Ata. Some spikes strongly branching.

314617. AGROPYRON sp.

Col. No. 387. Along Alma Atinka River, 20 km. above Alma Ata. To 4 feet high; spikes nodding.

314618. AGROPYRON sp.

Col. No. 405. In mountain canyon, 85 km. east of Alma Ata.

314138 to 314771—Continued

314619. *ELYMUS SIBIRICUS* L. Gramineae.

Col. No. 406. In mountain canyon, 85 km. east of Alma Ata.

314620. *AGROPYRON* sp. Gramineae.

Col. No. 407. In mountain canyon, 85 km. east of Alma Ata. Leafy.

314621. *AGROPYRON* sp.

Col. No. 413. In mountain canyon, 97 km. east of Alma Ata.

314622. *AGROPYRON* sp.

Col. No. 416. In spruce forest canyon, 97 km. east of Alma Ata.

314623. *AGROPYRON* sp.

Col. No. 446. West of Game Preserve headquarters, 40 km., about 180 km. east of Alma Ata.

314624. *AGROPYRON* sp.

Col. No. 447. West of Game Preserve headquarters, 40 km., about 180 km. east of Alma Ata. Nodding spikes.

314625. *AGROPYRON* sp.

Col. No. 464. Low mountains 20 km. north of Game Preserve headquarters, 180 km. east of Alma Ata. To 3 feet high.

314626. *AGROPYRON* sp.

Col. No. 466. Low mountains 20 km. north of Game Preserve headquarters, 180 km. east of Alma Ata. To 4 feet high.

314627. *AGROPYRON* sp.

Col. No. 475. North of Kokpek, 25 km., and about 160 km. east of Alma Ata.

314628. *AGROPYRON* cf. *CANINUM* (L.) Beauv.

Col. No. 490. Along Talgar River, 54 km. east of Alma Ata. Closely spaced spikelets, short awns. Not like *A. trachycaulum*.

314629. *AGROPYRON CANINUM* (L.) Beauv.

Col. No. 493. Along Talgar River, 54 km. east of Alma Ata. To 4 feet high, slender like *A. spicatum*; spikelets awned.

314630. *AGROPYRON* sp.

Col. No. 494. Along Talgar River, 54 km. east of Alma Ata. Long, smooth spikelets.

314631. *AGROPYRON* sp.

Col. No. 495. Along Talgar River, 55 km. east of Alma Ata. Widely spaced spikelets, awnless.

314632. *AGROPYRON* sp.

Col. No. 504. West of Alma Ata, 50 km., near Karagali. Looks like *A. repens*; growing on extremely dry site.

314633. *AGROPYRON* sp.

Col. No. 514. West of Alma Ata, 33 km.

314634. *AGROPYRON* sp.

Col. No. 519. West of Alma Ata, 35 km. Short, divergent awns.

314635. *POA STERILIS* Bieb. Gramineae.

Col. No. 340. Mountain foothills, 16 km. south of Alma Ata. Perennial, to 2 feet high; leaves and stems fine; panicle open.

314138 to 314771—Continued

314636. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng Gramineae.
King's Ranch bluestem.
Col. No. 418. At Game Preserve headquarters, 180 km. east of Alma Ata. Perennial, bunch type.
314637. *ARISTIDA* sp. Gramineae.
Col. No. 366. Sandhills west of Cholak Espe, 250 km. northwest of Alma Ata. Rhizomatous grass, forming large clumps, to 30 inches high, dense, leafy.
314638. *ARISTIDA* sp.
Col. No. 469. Game Preserve headquarters, 180 km. east of Alma Ata. Annual, to 15 inches high; three-branched awn.
314639. *ARISTIDA* sp.
Col. No. 470. South of Game Preserve headquarters, 1.5 km. about 180 km. east of Alma Ata. Annual, to 18 inches high.
314640. *ASTRAGALUS* sp. Leguminosae.
Col. No. 367. Sandhills west of Cholak Espe, 250 km. northwest of Alma Ata. Spreading shrub, to 16 inches high; erect flowering spikes; very leafy; pods curled.
314641. *ASTRAGALUS* sp.
Col. No. 481. Northwest of Kokpek, 54 km., about 145 km. northeast of Alma Ata. Perennial, to 2 feet high; numerous bladderly pods in dense raceme.
314642. *ATRAPHAXIS* sp. Polygonaceae.
Col. No. 391. Along Alma Atinka River, 20 km. above Alma Ata. Spiny shrub, to 6 feet high; three-winged fruits and trigonous seed.
314643. *ATRAPHAXIS* sp.
Col. No. 417. At game Preserve headquarters, 180 km. east of Alma Ata. Shrub to 6 feet high; spineless; new branches stiffly erect; flowering bracts pink; leaves obovate, spiculate, entire, thick.
314644. *ATRAPHAXIS* sp.
Col. No. 420. At Game Preserve headquarters, 180 km. east of Alma Ata. Shrub to 2 feet high, spiny.
314645. *BETULA* sp. Betulaceae.
Col. No. 385. Along Alma Atinka River, 20 km. above Alma Ata. Tree to 40 feet high; white and/or coppery bark.
314646. *BROMUS* sp. Gramineae.
Col. No. 338. Mountain foothills, 16 km. south of Alma Ata. Perennial, to 4 feet high; panicle nodding.
314647. *BROMUS* sp.
Col. No. 375. Along Alma Atinka River, 20 km. above Alma Ata. To 6 feet high; short awns; panicles ripening rather evenly.
314648. *BROMUS* sp.
Col. No. 489. Along Talgar River, 54 km. east of Alma Ata. To 6 feet high; nodding, loose panicles, awned spikelets; not fully mature.
314649. *CAREX PACHYSTYLIS* Gay Cyperaceae. Sedge.
Col. No. 453. Low mountains, 20 km. north of Game Preserve headquarters, about 180 km. east of Alma Ata.

314138 to 314771—Continued

314650. *CARTHAMUS TINCTORIUS* L. Compositae. **Safflower.**

Col. No. 359. 'Milutin 114'. Near Cholak Espe, 250 km. northwest of Alma Ata. To 12 inches high; leaves essentially spineless; phyllaries with some spines. Many heads.

314651. *CONVOLVULUS DIVARICATUS* Regel & Schmalh. Convolvulaceae.

Col. No. 443. West of Game Preserve headquarters, 30 km., about 180 km. east of Alma Ata. Shrub, to 4 inches high, very spiny.

314652. *CRAMBE* sp. Cruciferae.

Col. No. 390. Along Alma Atinka River, 20 km. above Alma Ata. Perennial from underground crowns; to 6 feet high spreading to 4 feet in diameter; loaded with seed pods; 1 seed per pod.

314653. *CUCUMIS* sp. Cucurbitaceae.

Col. No. 336. Market in Alma Ata. Fruit oblong, 12 by 8 inches, surface slightly rugose; buff colored; flesh thick, cream colored, sweet.

314654. *CUCUMIS* sp.

Col. No. 368. Cholak Espe, 250 km. northwest of Alma Ata. Fruit ovoid, 9 by 14 inches; brownish green; slightly rugose; flesh cream colored, juicy, sweet.

314655. *CITRULLUS* sp. Cucurbitaceae.

Col. No. 369. Cholak Espe, 250 km. northwest of Alma Ata. Fruit spherical, 10 inches in diameter; black-green mottled.

314656 to 314661. *DACTYLIS GLOMERATA* L. Gramineae. **Orchardgrass.**

314656. Col. No. 337. Mountain foothills 16 km. south of Alma Ata. To 7 feet high.

314657. Col. No. 401. East of Alma Ata, 50 km.

314658. Col. No. 516. West of Alma Ata, 33 km.

314659. Col. No. 462. Low mountains 20 km. north of Game Preserve headquarters, 180 km. east of Alma Ata.

314660. Col. No. 467. Low mountains, 20 km. north of Game Preserve headquarters, 180 km. east of Alma Ata. To 4 feet high.

314661. Col. No. 479. North of Kokpek, 25 km., about 160 km. east of Alma Ata.

314662. *DELPHINIUM* sp. Ranunculaceae.

Col. No. 389. Along Alma Atinka River, 20 km. above Alma Ata. Perennial to 6 feet high; flowering racemes to 2 feet long.

314663 and 314664. *ELYMUS ARALENSIS* Regel Gramineae. **Wildrye.**

314663. Col. No. 422. On desert flat about 190 km. east of Alma Ata, about 26 km. northeast of Game Preserve headquarters. Culms harsh, wiry, thick.

314664. Col. No. 425. Desert flat, 190 km. east of Alma Ata, about 30 km. northeast of Game Preserve headquarters. Slender spiked; rhizomatous.

314665 to 314671. *ELYMUS JUNCEUS* Fisch. **Russian wildrye.**

314665. Col. No. 370. Along Aksenger River near Moscow-Alma Ata railroad, about 110 km. west of Alma Ata. Culms to 2 feet high; heads not shattering though mature.

314666. Col. No. 372. Along Aksenger River, where Moscow-Ata railroad crosses river.

314138 to 314771—Continued**314665 to 314671—Continued**

314667. Col. No. 436. West of Game Preserve headquarters, 21 km., about 180 km. east of Alma Ata.

314668. Col. No. 437. West of Game Preserve headquarters, 21 km., about 180 km. east of Alma Ata. Below hillside of *E. junceus*. More slender, later, greener, less leafy than type; leaves basal. Appears to be a sterile hybrid.

314669. Col. No. 441. West of Game Preserve headquarters, 21 km., about 180 km. east of Alma Ata. Little, if any, shattering.

314670. Col. No. 444. West of Game Preserve headquarters, 30 km., about 180 km. east of Alma Ata.

314671. Col. 445. West of Game Preserve headquarters, 30 km., about 180 km. east of Alma Ata.

314672. ELYMUS sp.

Col. No. 424. Desert flat, 190 km. east of Alma Ata, about 30 km. north-east of Game Preserve headquarters.

314673. ELYMUS sp.

Col. No. 427. Kokpek Mountains, 190 km. east of Alma Ata, about 40 km. northeast of Game Preserve headquarters. Rhizomatous, very coarse leaves.

314674. ELYMUS DAHURICUS Turcz.

Col. No. 434. West of Game Preserve headquarters, 19 km., about 180 km. east of Alma Ata. Purplish spikes; appears to shatter easily even though still green in color.

314675. ELYMUS sp.

Col. No. 435. West of Game Preserve headquarters, 19 km., about 180 km. east of Alma Ata.

314676. ELYMUS sp.

Col. No. 439. West of Game Preserve headquarters, 21 km., about 180 km. east of Alma Ata. Resembles *E. junceus* but plants bigger, seeds larger.

314677. ELYMUS sp.

Col. No. 449. West of Game Preserve headquarters, 39 km., about 180 km. east of Alma Ata.

314678. ELYMUS sp.

Col. No. 450. West of Game Preserve headquarters, 39 km., about 180 km. east of Alma Ata. Late maturing.

314679. ELYMUS sp.

Col. No. 465. Low mountains, 20 km. north of Game Preserve headquarters, about 180 km. east of Alma Ata. Very tough stems and leaves; loosely rhizomatous.

314680. ELYMUS DAHURICUS Turcz.

Col. No. 472. North of Kokpek, 25 km., about 160 km. east of Alma Ata. To 3 feet high.

314681. ELYMUS sp.

Col. No. 478. North of Kokpek, 25 km., about 160 km. east of Alma Ata.

314682. ELYMUS sp.

Col. No. 499. West of Alma Ata, 50 km., near Karagali. To 4 feet high; very coarse, long leaves.

314138 to 314771—Continued

314683. *EPHEDRA* sp. Gnetaceae.

Col. No. 460. Low mountains, 20 km. north of Game Preserve headquarters, about 180 km. east of Alma Ata. Fruits on inner stems, orange red.

314684 to 314686. *FESTUCA ARUNDINACEA* Schreb. Gramineae.

Tall fescue.

314684. Col. No. 351. Gravel bar along Alma Atinka River, 15 km. south of Alma Ata. To 4 feet high; leaves yellow green, to $\frac{1}{2}$ inch wide.

314685. Col. No. 383. Along Alma Atinka River, 20 km. above Alma Ata. To 5 feet high.

314686. Col. No. 513. West of Alma Ata, 33 km.

314687 and 314688. *FESTUCA OVINA* L.

Sheep fescue.

314687. Col. No. 430. West of Game Preserve headquarters, 19 km., about 180 km. east of Alma Ata.

314688. Col. No. 454. Low mountains, 20 km. north of Game Preserve headquarters, about 180 km. east of Alma Ata.

314689 to 314691. *FESTUCA PRATENSIS* Huds.

314689. Col. No. 352. Gravel bar of Alma Atinka River, 15 km. south of Alma Ata. To 3 feet high.

314690. Col. No. 396. East of Alma Ata, 50 km.

314691. Col. No. 476. North of Kokpek 25 km., about 160 km. east of Alma Ata.

314692. *FESTUCA* sp.

Col. No. 377. Along Alma Atinka River 20 km. above Alma Ata. Broad-leaved perennial; top of panicle shattering before bottom of panicle is ripe.

314693. *FESTUCA* sp.

Col. No. 426. Kokpek Mountains 190 km. east of Alma Ata, about 40 km. northeast of Game Preserve headquarters.

314694. *FESTUCA* sp.

Col. No. 448. West of Game Preserve headquarters 40 km., about 180 km. east of Alma Ata.

314695. *HEDYSARUM* sp. Leguminosae.

Col. No. 404. Mountain canyon, 85 km. east of Alma Ata. Perennial, to 2 feet high; many lomentis in a dense raceme.

314696. *HORDEUM BOGDANII* Wilensky Gramineae.

Col. No. 480. North of Kokpek, 28 km., about 158 km. east of Alma Ata. Perennial to 2 feet high.

314697. *HORDEUM* sp.

Col. No. 501. Near Karagali, 50 km. west of Alma Ata. Annual.

314698. *JUNIPERUS* sp. Pinaceae.

Col. No. 455. Low mountains 20 km. north of Game Preserve headquarters, 180 km. east of Alma Ata. Prostrate, dark green shrub with glaucous blue berries.

314699 and 314700. *KOELERIA GRACILIS* Pers. Gramineae.

314699. Col. No. 433. West of Game Preserve headquarters 19 km., about 180 km. east of Alma Ata.

314700. Col. No. 503. Near Karagali, 50 km. west of Alma Ata.

314138 to 314771—Continued

314701. LATHYRUS sp. Leguminosae.

Col. No. 346. Mountain foothills 16 km. south of Alma Ata. To 3 feet high; leaflets even pinnate, mostly 6.

314702. LATHYRUS sp.

Col. No. 488. Along Talgar River 54 km. east of Alma Ata. Perennial to 3 feet high; pods to 4 inches long, numerous.

314703. LONICERA sp. Caprifoliaceae.

Col. No. 394. Along Alma Atinka River, 20 km. above Alma Ata. Shrub to 6 feet high with pendent, paired fruits, slender oblong, bright red, soft, pulpy.

314704. LOTUS CORNICULATUS L. Leguminosae. **Birdsfoot trefoil.**

Col. No. 468. Game Preserve headquarters, 180 km. east of Alma Ata.

314705 to 314707. MEDICAGO FALCATA L. Leguminosae.

314705. Col. No. 350. Gravel bar of Alma Atinka River, 15 km. south of Alma Ata.

314706. Col. No. 381. Along Alma Atinka River, 20 km. above Alma Ata. Plants vigorous, to 3 feet long; flowers yellow, some yellow and blue; only few pods approaching maturity.

314707. Col. No. 410. Mountain canyon, 85 km. east of Alma Ata.

314708. MEDICAGO LUPULINA L. **Black medic.**

Col. No. 378. Along Alma Atinka River, 20 km. above Alma Ata.

314709 to 314715. MEDICAGO SATIVA L. **Alfalfa.**

314709. Col. No. 333. Market in Alma Ata.

314710. Col. No. 334. Market in Alma Ata.

314711. Col. No. 386. Along Alma Atinka River, 20 km. above Alma Ata. Purple flowered.

314712. Col. No. 400. East of Alma Ata, 50 km.

314713. Col. No. 411. Mountain canyon, 85 km. east of Alma Ata.

314714. Col. No. 474. North of Kokpek 25 km., about 160 km. east of Alma Ata.

314715. Col. No. 510. Near Karagali, 50 km. west of Alma Ata.

314716. MELILOTUS sp. Leguminosae.

Col. No. 349. On gravel bar of Alma Atinka River, 15 km. south of Alma Ata. Plants to 2 feet high; flowers yellow.

314717. MELILOTUS sp.

Col. No. 395. East of Alma Ata, 50 km.

314718. MELILOTUS sp.

Col. No. 414. Mountain canyon, 97 km. east of Alma Ata.

314719. MELILOTUS sp.

Col. No. 477. North of Kokpek, 25 km., about 160 km. east of Alma Ata.

314720. MELILOTUS sp.

Col. No. 511. West of Alma Ata, 48 km. Flowers yellow.

314721. MELILOTUS sp.

Col. No. 517. West of Alma Ata, 34 km. Flowers white.

314138 to 314771—Continued

314722. *MELICA* sp. Gramineae.

Col. No. 342. Mountain foothills 16 km. south of Alma Ata. Perennial, coarse, to 50 inches high; culms scabrous; leaves broad, flat; spikelets inflated; apparently only 1 fertile spikelet per spike.

314723. *OROYZOPSIS* sp. Gramineae.

Col. No. 429. West of Game Preserve headquarters 19 km., about 180 km. east of Alma Ata. Dense tuft of bluish basal leaves.

314724. *ORYZOPSIS* sp.

Col. No. 471. Game Preserve headquarters, about 180 km. east of Alma Ata. To 4 feet high; loose, open panicle; dense basal tuft of leaves.

314725. *PANICUM* sp. Gramineae.

Col. No. 341. Mountain foothills 16 km. south of Alma Ata. Perennial, to 5 feet high; panicle open.

314726 to 314728. *PHALARIS ARUNDINACEA* L. Gramineae.

Reed canarygrass.

314726. Col. No. 339. Mountain foothills 16 km. south of Alma Ata. To 8 feet high.

314727. Col. No. 380. Along Alma Atinka River, 20 km. above Alma Ata.

314728. Col. No. 492. Along Talgar River about 54 km. east of Alma Ata. Mostly shattered.

314729. *PHASEOLUS VULGARIS* L. Leguminosae.

Common bean.

Col. No. 335. Market in Alma Ata.

314730. *PHLEUM* sp. Gramineae.

Col. No. 457. Low mountains, 20 km. north of Game Preserve headquarters, about 180 km. east of Alma Ata.

314731. *PICEA TIANSHANICA* Rupr. Pinaceae.

Col. No. 497. Along Talgar River, about 50 km. east of Alma Ata. Tree to 120 feet high; similar to *P. abies*.

314732. *POA BULBOSA* L. Gramineae.

Bulbous bluegrass.

Col. No. 452. Low mountains about 20 km. north of Game Preserve headquarters, 180 km. east of Alma Ata.

314733. *POA PRATENSIS* L.

Kentucky bluegrass.

Col. No. 399. East of Alma Ata, 50 km.

314734. *POA* sp.

Col. No. 415. Mountain canyon, spruce zone; 97 km. east of Alma Ata.

314735. *POA* sp.

Col. No. 419. Game Preserve headquarters, about 180 km. east of Alma Ata. To 12 inches high.

314736. *POA* sp.

Col. No. 438. West of Game Preserve headquarters 21 km., about 180 km. east of Alma Ata.

314737. *POA* sp.

Col. No. 459. Low mountains 20 km. north of Game Preserve headquarters, about 180 km. east of Alma Ata. Much larger than *Festuca ovina*; to 2 feet high, leaves coarser.

314738. *POTENTILLA* sp. Rosaceae.

Col. No. 496. Along Talgar River about 55 km. east of Alma Ata. Perennial with creeping stems.

314138 to 314771—Continued

314739. *ROSA* sp. Rosaceae.

Col. No. 388. Along Alma Atinka River 20 km. above Alma Ata. Viny shrub to 6 feet high; fruits abundant.

314740. *SESLERIA* sp. Gramineae.

Col. No. 382. Along Alma Atinka River 20 km. above Alma Ata.

314741. *SETARIA ITALICA* (L.) Beauv. Gramineae.

Col. No. 355. Near Cholak Espe, 250 km. northwest of Alma Ata. To 18 inches high; seeding heavily.

314742. *SOPHORA* sp. Leguminosae.

Col. No. 483. Northwest of Kokpek 54 km., about 145 km. northeast of Alma Ata. Perennial to 3 feet high; long, segmented pods.

314743. *SORGHUM BICOLOR* (L.) Moench Gramineae.

Col. No. 360. Near Cholak Espe, 250 km. northwest of Alma Ata. To 30 inches high.

314744 to 314750. *STIPA CAPILLATA* L. Gramineae.

314744. Col. No. 357. Near Cholak Espe, 250 km. northwest of Alma Ata. To 20 inches high.

314745. Col. No. 421. Game Preserve headquarters, about 180 km. east of Alma Ata.

314746. Col. No. 423. On desert flat about 190 km. east of Alma Ata, 26 km. northeast of Game Preserve headquarters.

314747. Col. No. 428. Kokpek Mountains, 190 km. east of Alma Ata, 40 km. northeast of Game Preserve headquarters.

314748. Col. No. 432. West of Game Preserve headquarters 19 km., about 180 km. east of Alma Ata.

314749. Col. No. 500. Near Karagali, 50 km. west of Alma Ata.

314750. Col. No. 515. West of Alma Ata 33 km.

314751. *STIPA* sp.

Col. No. 398. East of Alma Ata 50 km.

314752. *STIPA* sp.

Col. No. 442. West of Game Preserve headquarters 30 km., about 180 km. east of Alma Ata. Awns shorter and fuzzier than in *S. capillata*; seed also pubescent.

314753. *STIPA* sp.

Col. No. 509. Near Karagali, 50 km. west of Alma Ata. To 3 feet high; dense basal tuft of leaves; loose, open panicle, largely shattered.

314754. *TAENIATHERUM CRINITUM* (Schreb.) Nevski Gramineae.

Col. No. 403. East of Alma Ata 50 km.

314755. *TRIFOLIUM FRAGIFERUM* L. Leguminosae. Strawberry clover.

Col. No. 373. Along Aksenger River where Moscow-Alma Ata railroad crosses river. Plants low, to 7 inches high.

314756 to 314761. *TRIFOLIUM PRATENSE* L. Red clover.

314756. Col. No. 347. Mountain foothills 15 km. south of Alma Ata. To 14 inches high; fruit mostly ripe.

314757. Col. No. 397. East of Alma Ata 50 km.

314758. Col. No. 409. Mountain canyon 85 km. east of Alma Ata.

314138 to 314771—Continued**314756 to 314761—Continued**

314759. Col. No. 473. North of Kokpek 25 km., about 160 km. east of Alma Ata.

314760. Col. No. 486. Along Talgar River 50 km. east of Alma Ata. Flowering; heads mature, stems glabrous.

314761. Col. No. 518. West of Alma Ata 34 km.

314762 to 314765. *TRIFOLIUM REPENS* L. White clover.

314762. Col. No. 348. Gravel bar of Alma Atinka River 15 km. south of Alma Ata.

314763. Col. No. 485. Along Talgar River 45 km. east of Alma Ata.

314764. Col. No. 491. Along Talgar River 56 km. east of Alma Ata.

314765. Col. No. 502. Near Karagali 50 km. west of Alma Ata.

314766. *VICIA* sp. Leguminosae.

Col. No. 344. Mountain foothills 16 km. south of Alma Ata. Rank, stems to 3 feet long.

314767. *VICIA* sp.

Col. No. 487. Along Talgar River 52 km. east of Alma Ata.

314768. (Undetermined.) Leguminosae.

Col. No. 358. Near Cholak Espe 250 km. northwest of Alma Ata. Annual, to 8 inches high; pods curved.

314769. (Undetermined.) Leguminosae.

Col. No. 363. Sandhills west of Cholak Espe 250 km. northwest of Alma Ata. Shrub to 5 feet high; spiny; leaves leathery, glaucous; fruit winged.

314770. (Undetermined.) Leguminosae.

Col. No. 451. Game Preserve headquarters 180 km. east of Alma Ata. Spiny shrub to 10 feet high; leaves with 2 pairs leaflets, terminating in spine; stipular spines.

314771. (Undetermined.) Leguminosae.

Col. No. 512. West of Alma Ata 34 km. Perennial; leaves odd pinnate, 6 pairs leaflets; fruit spiny, constricted between seeds.

314772 to 314781.

From the Republic of China. Plants presented by the Taiwan Sugar Experiment Station, Tainan, Taiwan. Received May 10, 1966.

314772 to 314776. *SACCHARUM* (hybrid) Gramineae. Sugarcane.

314772. F 141 314775. F 153.

314773. F 151. 314776. F 154.

314774. F 152.

314777 to 314781. *SACCHARUM SPONTANEUM* L.

314777. 'Hualien No. 1'. 314780. 'Pingtung No. 1'.

314778. 'Hualien No. 5'. 314781. 'Towlin No. 3'.

314779. 'Peikang No. 11'.

314782 to 314785.

From France. Seeds presented by Laboratory of Research for Forage Plants, Botanical Service, Ministry of Agriculture, Rouen. Received May 6, 1966.

314782. *DIANTHUS CAESIUS* J. E. Smith Caryophyllaceae.

314782 to 314785—Continued314783. *DIANTHUS GALLICUS* Pers.314784. *DIANTHUS GRANITICUS* Ford.314785. *GYPSOPHILIA REPENS* L. Caryophyllaceae.**314786 to 314788.**

From Mexico. Seeds collected by O. F. Fancke, Mexico, D. F. Received May 6, 1966.

314786. (Undetermined.) Leguminosae.

Nopaltaepec. Bizcocho, Veracruz.

314787. (Undetermined.) Leguminosae.

Acula. Cocuite, Veracruz.

314788. (Undetermined.) Gramineae.

Isthmus of Tehuantepec. Taltepec, Veracruz.

314789 to 314803.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received May 6, 1966.

314789 and 314790. *CAJANUS CAJAN* (L.) Millsp. Leguminosae.

Pigeon-pea.

314789. C.P.I. 18301.

314790. C.P.I. 20133.

314791. *CUCUMIS MYRIOCARPUS* Naudin Cucurbitaceae.

V.160(a).

314792. *GOMPHRENA PARVIFLORA* Benth. Amaranthaceae.

C.925.

314793 to 314803. *PISUM SATIVUM* L. Leguminosae.

Pea.

314793. C.P.I. 10131.

314799. C.P.I. 15536.

314794. C.P.I. 12559.

314800. C.P.I. 15742.

314795. C.P.I. 12561.

314801. C.P.I. 15860.

314796. C.P.I. 14982.

314802. C.P.I. 16428.

314797. C.P.I. 15248.

314803. C.P.I. 22002.

314798. C.P.I. 15456.

314804 to 314816.

From the Netherlands. Seeds presented by University Botanic Garden, Nijmegen. Received May 6, 1966.

314804. *CANNA EDULIS* Ker. Cannaceae.

Edible canna.

No. 20.

314805. *CANNA LIMBATA* Rosc.

No. 23.

314806. *CUCURBITA* sp. Cucurbitaceae.

No. 566.

314807 and 314808. *SAMBUCUS NIGRA* L. Caprifoliaceae.

European elder.

314807. No. 272.

314808. No. 273. 'Aurea'.

314804 to 314816—Continued

314809. *SAMBUCUS RACEMOSA* L.

European red elder.

No. 275.

314810 and 314811. *SAMBUCUS NIGRA* var. *LACINIATA* L.

314810. No. 274.

314811. No. 276.

314812. *TACCA INTEGRIFOLIA* Ker-Gawl. Taccaceae.

No. 156.

314813. *ZINNIA ANGUSTIFOLIA* H.B.K. Compositae.

No. 491.

314814. *ZINNIA LINEARIS* Benth.

No. 492.

314815. *ZINNIA PERUVIANA* L.

No. 493.

314816. *ZINNIA PRIMULA* A. Gray

No. 494.

314817 to 314828.

From Peru. Seeds and plants collected by D. H. Timothy, North Carolina State University, Raleigh. Received May 17, 1966.

314817 and 314818. *ARACHIS HYPOGAEA* L. Leguminosae.

Peanut.

314817. Col. No. 200. 'Mani'. Store in Juanjur, Province of Mariscal Caceres, San Martin. (Seeds).

314818. Col. No. 205. 'Mani'. From store in Picota, San Martin. (Seeds).

314819. *TRIPSACUM LAXUM* Nash Gramineae.

Col. No. 203. 'Pasto Guatemala'. SIPA Granja Demonstrativa, small cultivated plot, Huallaga province, San Martin. (Plants).

314820. *TRIPSACUM* sp.

Col. No. 201. Two hundred meters west of Tingo de Saposoa, Huallaga Province, San Martin. Plants to 4 meters high. (Plants).

314821. *TRIPSACUM* sp.

Col. No. 202. Twenty-two km. across river from San Cristobal de Sisa, Huallaga Province, San Martin. Plants 5 to 6 meters high; wide leaves, 10-15 cm. (Plants).

314822. *TRIPSACUM* sp.

Col. No. 204. On bank of Huallaga River, San Martin Province, San Martin. (Plants).

314823. *TRIPSACUM* sp.

Col. No. 206. On bank of Huallaga River, San Martin Province, San Martin. (Plants).

314824. *TRIPSACUM* sp.

Col. No. 207. Two km. east of Tarapoto on road to Shapoja, San Martin Province, San Martin. (Plants).

314825. *TRIPSACUM* sp.

Col. No. 201. Two hundred meters west of Tingo de Saposoa, Huallaga Province, San Martin. Plants to 4 meters high. (Seeds).

314817 to 314828—Continued**314826. TRIPSACUM sp.**

Col. No. 204. On bank of Huallaga River, San Martin Province, San Martin. (Seeds).

314827. TRIPSACUM sp.

Col. No. 206. Two km. east of Tarapoto on road to Shapoja, San Martin Province, San Martin. (Seeds).

314828. TRIPSACUM sp.

Col. No. 207. Two km. east of Tarapoto on road to Shapoja, San Martin Province, San Martin. (Seeds).

314829 to 314835. SACCHARUM (hybrid). Gramineae.

From Mauritius. Cuttings presented by the Director, Mauritius Sugar Industry Research Institute, Reduit. Received May 17, 1966.

314829. 'Ebene 118/56'. 314833. M 194/57.

314830. 'Kletak'. 314834. M 248/57.

314831. M 99/48. 314835. M 409/51.

314832. M 100/58.

314836. CITRUS sp. Rutaceae.

From the Union of Soviet Socialist Republics. Seeds presented by Scientific Academy of Georgia, Batumi Botanical Garden, Batumi. Received May 17, 1966.

'Korolek'.

314837 to 314839. AVENA SATIVA L. Gramineae. Common oats.

From Japan. Seeds presented by Hokkaido Agricultural Experiment Station, Hitsujigaoka, Sapporo, Hokkaido. Received May 17, 1966.

314837. 'Honami'.

314838. 'Kuromi'.

314839. 'Victory No. 1'.

314840 to 314843. TRIFOLIUM PRATENSE L. Leguminosae.**Red clover.**

From Norway. Seeds presented by R. Vestad, Agricultural College of Norway, Vollebekk, Oslo. Received May 17, 1966.

314840. 'Jripo F81'. 4X. 314842. 'Ondal E1'. 2X.

314841. 'Mols Aad'. 2X. 314843. 'Vagoy E1'. 2X.

314844. ZEA MAYS L. Gramineae.**Corn.**

From the United States. Seeds presented by M. S. Zuber, Department of Field Crops, University of Missouri, Columbia. Received May 17, 1966.

'Mammoth White Pearl'. Very old variety. Comparatively good yield on poor soil. Stalks vigorous to 10 feet high; one ear per stalk, loose husk.

314845 and 314846. LOTUS CORNICULATUS L. Leguminosae.**Birdsfoot trefoil.**

From the United States. Seeds produced by Soil Conservation Service, Big Flats, N.Y. Received May 17, 1966.

314845. BN-13548-64. Original collection Pendleton County, W.Va., 7 miles west of Franklin on Route 33, on road bank. Elevation 2,000 feet; slope 6:1, Calvin subsoil, severe erosion, season very dry. Plant vigorous, 54 inches diameter, seed production heavy.

314845 to 314846—Continued

314846. BN-13549-64. Original collection Allegany County, Md., 4 miles north of Old Town, on road bank. Elevation 1,000 feet; Lehece soil, very low fertility, pH 5.0.

314847 to 314885.

From the Republic of South Africa. Seeds presented by Department of Agricultural Technical Services, Pretoria. Received May 17, 1966.

314847 to 314855. *GLYCINE JAVANICA* L. Leguminosae.

314847. B/58/116. Port Elizabeth.

314848. B/62/1. Dohne Res. Sta.

314849. U/50/186. Mazoe, Rhodesia.

314850. U/55/31. Choma, North Rhodesia.

314851. U/61/139. Tanganyika.

314852. U/61/146. South Rhodesia Grasslands selection.

314853. U/61/147. South Rhodesia Ex Melsetter.

314854. U/61/148. South Rhodesia Norvals special.

314855. U/61/149. South Rhodesia. Causeway.

314856 to 314878. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. ex M. B. Millet.
Moss Gramineae.

314856. B/53/29. Wassenaar.

314857. B/53/223. Dohne.

314858. B/56/19. Rietvlei.

314859. B/57/195. Sutherland, C.P.

314860. B/57/197. Pietersburg.

314861. B/57/199. Turner.

314862. B/57/201. S.T.T.

314863. B/57/202. Haenertsburg.

314864. B/59/26. St. Lucia lake, Zululand.

314865. B/59/39. Lydenburg.

314866. B/59/48. Rietondale.

314867. B/59/49. N. Gamiland.

314868. B/59/54. Zambesi River. Kazungula strain.

314869. B/59/61. Whylliespoort.

314870. B/59/122. Kabulabula strain.

314871. U/59/33. Katambora. Tanganyika.

314872. U/59/36. Kenya.

314873. U/59/42. East Africa.

314874. U/59/45. Thomsonsfalls. Kenya.

314875. U/59/46. Bua River. Nyasaland.

314876. U/59/47. North Kenya.

314877. U/59/47. Marsabit, Kenya.

314878. U/59/51. Bechuanaland.

314879 to 314884. *SETARIA SPHACELATA* var. *STOLONIFERA* De Wit

314879. B/59/15. Hammanskraal.

314880. B/59/23. Vereeniging.

314847 to 314885—Continued**314879 to 314884—Continued**

314881. B59/37. Newcastle, Natal.
 314882. B/59/40. Balfour.
 314883. B/59/45. Leeuwfontein P.T.A.
 314884. B/59/58. Mafeking.

314885. (Undetermined.) Leguminosae.

U/61/140. Kawanda, Tanganyika.

314886. UROCHLOA MOSAMBICENSIS (Hack.) Dandy Gramineae.

From the Republic of South Africa. Plants presented by P. G. Stewart, Umfolozi Game Reserve, Mtubatuba. Received May 18, 1966.

Col. No. 439.

314887 to 314889.

From Poland. Seeds presented by Institute for Plant Improvement and Adaptation, Warsaw. Received May 18, 1966.

314887. VICIA PISIFORMIS L. Leguminosae.

314888. VICIA SYLVATICA L.

314889. VICIA sp.

314890 to 314892.

From the United States. Plants growing at Regional Plant Introduction Station, Pullman, Wash. Received May 18, 1966.

314890. MONARDELLA ODORATISSIMA Benth. Labiatae.

Col. No. 8-M. Bozeman, Mont., 40 miles west. Dry roadside; grassland association. Plant aromatic, flowers very attractive, requires little culture.

314891. PRUNUS VIRGINIANA var. DEMISSA (Torr. & Gray) Torr. Rosaceae.
 Western chokecherry

Col. No. M-9. John Day, Oreg., 3 miles east. Dry roadside. Excellent form, hardy, good fruit production.

314892. SORBUS SCOPULINA Greene Rosaceae.

Col. No. 7-M. North Idaho. West side of Priest Lake near mouth of Granite Creek. Associated plants *Vaccinium*, *Thuja*, *Abies*. Plant many stemmed, symmetrical, good form, to 12 feet high, hardy. Fruit dark orange. Good seasonal color.

314893 to 314900. ARACHIS HYPOGAEA L. Leguminosae. Peanut.

From Nigeria. Seeds presented by Agricultural Research Station, Mokwa. Received May 18, 1966.

314893. B 187/1. Georgia bunch (hybrid), seeds large. Originally from Georgia in 1952.

314894. GBS 207-3-1. Georgia bunch (hybrid), seeds small. Originally from Georgia in 1952.

314895. Spanish 205. Spanish bunch. Originally from the United States in 1950.

314896. Toro. Valencia bunch. Originally from Nigeria.

314897. Galadi. Jumbo runner. Originally from Nigeria.

314898. Virginia bunch, seeds large. Originally from Italy in 1961.

314899. TBS 602. Natal runner, seeds medium large. Unusual Nigerian runner.

314893 to 314900—Continued

314900. G 153. Castle Cary bunch. Originally from India in 1957. Has yielded very well in Nigeria at widely different sites.

314901. SETARIA CHEVALIERI Stapf & Hubb. Gramineae.

From the Republic of South Africa. Seeds presented by Department of Agricultural Technical Services, Pretoria. Received May 18, 1966.

Col. No. 306. Lone Creek Falls, 5 miles northeast of Sabie, Transvaal. Perennial bunch grass; to 8 feet high.

314902 to 314906.

From Costa Rica. Seeds presented by Albert P. Lorz, United States Agency for International Development, University of Florida Contract, San Jose. Received May 18, 1966.

314902. *PHASEOLUS LUNATUS* L. Leguminosae. **Lima bean.**
Red seeded, viny perennial, wild.

314903 and 314904. *PHASEOLUS VULGARIS* L. **Common bean.**

314903. 'Cubaces Suaves'. Market in San Jose.

314904. 'Cubaces Suaves'. Market in San Jose. Selected offtypes of P.I.314903.

314905. *PISUM SATIVUM* L. Leguminosae. **Pea.**
'Santa Elene 626'. National Seed Production, Coycaacan, D.F.

314906. *VIGNA SINENSIS* (Torner) Savi Leguminosae. **Cowpea.**
No. 45. Purple Hull Blackeye type.

314907. CYMBOPOGON CITRATUS (Dc.) Stapf Gramineae. Lemongrass.

From the U. S. Virgin Islands. Plants presented by Virgin Islands Agricultural Research and Extension Program, Kingshill, St. Croix. Numbered May 18, 1966.

314908. TRIPSACUM LAXUM Nash Gramineae. Guatemalagrass.

From the United States. Plants presented by Auburn University, Auburn, Alabama. Numbered May 18, 1966.

314909 to 314926. TRITICUM AESTIVUM L. Gramineae.

From Rhodesia. Seeds presented by Ministry of Agriculture, Salisbury. Numbered May 19, 1966.

314909. No. 1. 'Kafue'. Lee × Selkirk. Good baking.

314910. No. 2. 'Marodzi'. X7-50 (Angola) × Kenltana-Yagui.

314911. No. 3. 'Ngesi'. X7-50 (Angola) × Kenltana-Yagui.

314912. No. 4. 'Mazoe'. Natural hybrid (GABO).

314913. No. 5. 'Umfuli'. Kafue × S29A1. Good baking.

314914. No. 6. 'Hunyani'. Kafue × S29A1. Good baking.

314915. No. 7. 'Lundi'. Short Italian (Ex. Denmark) × Kafue. Good baking.

314916. No. 8. 'Sebakwe'. Short Italian (Ex. Denmark) × Kafue. Good baking.

314917. No. 9. 'Njomane'. Marodzi × F430 (N.D.) Good baking.

314918. No. 10. 'Umnati'. S29A1 × F573 (Mex.) Semidwarf.

314919. No. 11. 'Wengi'. F260A1-S29A1 × F430 (N.D.).

314909 to 314926—Continued

314920. No. 12. 'Zambezi'. P.M.17 (Ex. Dr. Borlaug) × F430 (N.D.).
 314921. No. 13. S13A1. Selkirk × Lee. Good baking.
 314922. No. 14. H123A1. F260A1 × S29A1.
 314923. No. 15. S723A1B2. F573 (Mex). × Mazoe. Dwarf.
 314924. No. 16. S948A1. Lundi × S723A1. Dwarf.
 314925. No. 17. S951A5A1. S 723A1 × F430 (N.D.) Dwarf.
 314926. No. 18. F430. No.509.1.S.W.R.N.1959. Lee × N.D. 74.
 Excellent baking.

314927 to 314939.

From the Union of Soviet Socialist Republics. Seeds presented by the Botanical Garden, Stavropol. Received May 19, 1966.

314927. AGROPYRON DESERTORUM (Fisch. ex Link) Schult. Gramineae.
 Standard wheatgrass.
 314928. ELYMUS GIGANTEUS Vahl Gramineae. Siberian wildrye.
 314929. KOCHIA PROSTRATA (L.) Schrad. Chenopodiaceae.
 314930. LOTUS CAUCASICUS Kuprian Leguminosae.
 314931. ONOBRYCHIS IBERICA Grossh. Leguminosae.
 314932. POA LONGIFOLIA Trin. Gramineae.
 314933. POA NEMORALIS L. Wood bluegrass.
 314934. TRIFOLIUM ALPESTRE L. Leguminosae. Purple globe clover.
 314935. TRIFOLIUM FRAGIFERUM L. Strawberry clover.
 314936. TRIFOLIUM REPENS L. White clover.
 No. 1.
 314937. TRIFOLIUM PRATENSE L. Red clover.
 No. 2.
 314938. TRIFOLIUM sp.
 314939. (Undetermined.) Gramineae.

314940 to 314959. TRITICUM AESTIVUM L. Gramineae.

From the Republic of South Africa. Seeds presented by the Department of Agricultural Technical Services, Pretoria. Received May 4, 1966.

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| 314940. 'Betmark'. | 314950. 'Kleintrou'. |
| 314941. 'Daeraad'. | 314951. 'Koalisie'. |
| 314942. 'Delta'. | 314952. 'Lalkasarwali'. |
| 314943. 'Dromedaris'. | 314953. 'Losper'. |
| 314944. 'Flameks'. | 314954. 'Penkop'. |
| 314945. 'Gluretty'. | 314955. 'Punjab'. |
| 314946. 'Goudveld'. | 314956. 'Red Victory'. |
| 314947. 'Hoopvol'. | 314957. 'Sonop'. |
| 314948. 'Impala'. | 314958. 'Union 52'. |
| 314949. 'Kenia Sokkies'. | 314959. 'Wolkoring'. |

314960. CYNARA SCOLYMUS L. Compositae. Globe artichoke.

From Great Britain. Plants presented by F.A. Secrett Ltd., Hurst Farm, Milford, Godalming, Surrey, England. Received May 26, 1966.

'Vert de Laon'.

314961. SACCHARUM (hybrid) Gramineae.

From the Republic of South Africa. Cuttings presented by the South African Sugar Association, Mount Edgecombe, Natal. Received May 27, 1966.

'N.51/539.

314962. ZEA MAYS L. Gramineae.**Corn.**

From Honduras. Seeds presented by the American Embassy, Tegucigalpa. Received May 31, 1966.

'Sintetico Tuxpeno'.

314963. PHALARIS AQUATICA L. Gramineae.**Large canarygrass.**

From Australia. Seeds presented by Soil Conservation Authority, Kew, Victoria. Received June 1, 1966.

'Seedmaster'. Nonshattering strain from Brunnings Proprietary Limited, Melbourne.

314964. SECALE CEREALE L. Gramineae.**Rye.**

From Brazil. Seeds presented by Ake Boklin, Campinas, Sao Paulo. Received June 1, 1966.

'Gayerovo'.

314965 to 314967.

From Fiji. Cuttings presented by the South Pacific Sugar Mills Limited, Lautoka. Received May 31, 1966.

314965 and 314966. *MISCANTHUS FLORIDULUS* (Labill.) Warb. Gramineae.

314965. 'Fiji 36'.

314966. 'Fiji 71'.

314967. *SACCHARUM OFFICINARUM* L. Gramineae.

'Fiji 63'.

314968 to 314970. HUMULUS LUPULUS L. Moraceae.**Common hop.**

From New Zealand. Plants presented by the Hop Research Station, Riwaka, Nelson. Received June 2, 1966.

314968. 'Calicross'. 'Californian' × 'Fuggle'. Vine coarse, olive green, faintly striped. Laterals long, from top half of vine. Leaves large, five lobed, dark green. Cones single, large, green, medium firm, ovate, taper to point. Strig thick. Lupulin content average.

314969. 'First Choice'. 'Californian' × unknown. Vine fine, yellowish green, faintly striped. Lateral long, from top half of vine. Leaves medium, 5 to 7 lobed, greyish-green. Cones densely clustered, medium size, yellowish green, firm, ovate, tip inclined to open. Strig thin. Lupulin content high.

314970. 'Smooth Cone'. 'Californian' × unknown. Vine fine, olive green, red striped. Laterals long, from top two-thirds of vine. Leaves medium small, 3 to 5 lobed, green. Cones single, medium large, pale green, very firm, long oblong, pointed, often slightly crescent, lightly, longitudinally furrowed. Strig medium thick. Lupulin content high.

314971 to 314972. TRITICUM AESTIVUM L. Gramineae.

From the Netherlands. Seeds presented by Institute of Plant Breeding, Wageningen. Received June 7, 1966.

314971. *Autonomia* B. Semiwinter wheat.

314972. *Novi Sad 277*. Winter wheat.

314973. FRAGARIA (hybrid). Rosaceae. Strawberry.

From the Republic of South Africa. Plants presented by the Fruit and Food Technology Research Institute, Stellenbosch, Cape Province. Received June 8, 1966.

'Klaradyn'.

314974 to 314976.

From Costa Rica. Seeds collected by E. P. Imle, American Cocoa Research Institute, Washington, D. C. Received June 10, 1966.

314974. CITRUS RETICULATA Blanco Rutaceae. Mandarin orange.

Col. No. 133. 'Mandarina'. Seven miles south of San Isidro del General. Large; skin rough; flavor good; low acidity.

314975 RUBUS sp. Rosaceae.

Col. No. 131. Pan American Highway, south of Cartago. Elevation 9,000 feet. Wild blackberry.

314976. RUBUS sp.

Col. No. 132. Pan American Highway, south of Cartago. Elevation 10,000 feet. Wild blackberry.

314977 to 314979. SACCHARUM (hybrid) Gramineae. Sugarcane.

From Mauritius. Cuttings presented by the Mauritius Sugar Industry Research Institute, Reduit. Received June 10, 1966.

314977. M99/48.

314978. M100/58.

314979. M409/51.

314980. ARACHIS HYPOGAEA L. Leguminosae. Peanut.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received June 10, 1966.

VNIIMK 433 (VIR 263). Krasnodar Territory.

314981 to 315006.

From India. Seeds presented by Division of Plant Introduction, Indian Agricultural Research Institute, New Delhi. Received June 10, 1966.

314981 and 314982. CENCHRUS CILIARIS L. Gramineae. Buffelgrass.

314981. 'Pusa Giant Anjan'.

314982. 'Pusa White Anjan'.

314983. DESMODIUM INTORTUM (Mill.) Urb. Leguminosae.

E.C. 28874.

314984. GLYCINE JAVANICA L. Leguminosae.

E.C. 28916.

314985 to 314988. GLYCINE MAX (L.) Merr. Soybean.

314985. I.C. 193. 314987. I.C. 210.

314986. I.C. 206. 314988. I.C. 573.

314989 to 314991. GOSSYPIUM HIRSUTUM L. Malvaceae. Upland cotton.

314989. H. 14.

314990. L.L. 54.

314991. 320F.

314981 to 315006—Continued

314992. MELILOTUS INDICA (L.) All. Leguminosae.
Annual yellow sweetclover.
I.W. 1560 A. Yellow flowered.
314993. PANICUM ANTIDOTALE Retz. Gramineae. Blue panicgrass.
E.C. 9702.
314994. PENNISETUM ORIENTALE L. C. Rich. Gramineae.
(Tetraploid).
314995. PHASEOLUS ATROPURPUREUS DC. Leguminosae.
E.C. 27614.
- 314996 to 314998. SESAMUM INDICUM L. Pedaliaceae. Sesame.
314996. N.P. 3.
314997. N.P. 6.
314998. N.P. 29.
- 314999 to 315001. SORGHUM BICOLOR (L.) Moench Gramineae.
314999. I.S. 1054. M-35-1.
315000. I.S. 2243. PJ-4K.
315001. I.S. 3422. PJ-8K.
315002. STIZOLOBIUM sp. Leguminosae.
I.C. 1841.
- 315003 to 315006. ZEA MAYS L. Gramineae. Corn.
315003. 'Amarillo de Cuba'. 315005. 'Camp A1'.
315004. 'BASI'. 315006. K.T. 41.

315007 to 315033.

From Peru. Seeds collected by P. G. Smith, University of California, Davis.
Received June 10, 1966.

315007. CAPSICUM ANNUUM L. Solanaceae. Pimento.
Col. No. SA66-40. Common from Km. 110 to Bagua along road from Olmos.
- 315008 to 315031. CAPSICUM CHINENSE Jacq.
315008. Col. No. SA66-1. 'Miscucho'. Viru. Fruit red, top shaped, to 5 cm. long.
315009. Col. No. SA66-2. 'Miscucho'. Viru. Fruit orange-yellow, top shaped, to 4 cm. long.
315010. Col. No. SA66-8B. Viru. Fruit chocolate brown, to 12 cm. long.
315011. Col. No. SA66-8C. Viru. Fruit red, to 12 cm. long.
315012. Col. No. SA66-8D. Viru. Fruit chocolate brown, to 6 cm. long.
315013. Col. No. SA66-8E. Viru. Fruit red, to 20 cm. long, slender.
315014. Col. No. SA66-9. Chimbote. Fruit chocolate brown, to 6 cm. long.
315015. Col. No. SA66-9A. 'Panco'. 358 km. north of Lima. Fruit chocolate colored, to 13 cm. long.
315016. Col. No. SA66-10. 'Paringo'. Chiclayo. Fruit top shaped, to 7 cm. long. Resistant to powdery mildew, *Erysiphe*.

315007 to 315033—Continued

315008 to 315031—Continued

315017. Col. No. SA66-10A. Chimbote. Fruit chocolate brown, to 8 cm. long.
315018. Col. No. SA66-10B. Chimbote. Fruit red, to 10 cm. long.
315019. Col. No. SA66-17A. 'Limo'. Pacasmayo. Fruit yellow, top shaped, to 6 cm.
315020. Col. No. SA66-17B. 'Limo'. Pacasmayo. Mixture of fruit of various shapes and colors.
315021. Col. No. SA66-23. Chimbote. Fruit red, to 20 cm. long.
315022. Col. No. SA66-24. Km. 280, road from Bagua to Chachapoyas, fruit orange, elongate, 4 cm. long.
315023. Col. No. SA66-25. 'Mishme'. Km. 331, road from Bagua to Chachapoyas. Fruit orange, top shaped.
315024. Col. No. SA66-26. Km. 350, road from Bagua to Chachapoyas.
315025. Col. No. SA66-27. Km. 350, road from Bagua to Chachapoyas. Fruit light yellow, to 6 cm. long.
315026. Col. No. SA66-28. Km. 350, road from Bagua to Chachapoyas. Fruit yellow, top shaped, to 2 cm.
315027. Col. No. SA66-29. Km. 359, road to Bagua to Chachapoyas. Fruit yellow, top shaped, to 3 cm.
315028. Col. No. SA66-30. Km. 389, road from Bagua to Chachapoyas. Fruit orange, top shaped, to 5 cm. long.
315029. Col. No. SA66-32. 'Mishme'. Km. 344, on road between Cajamarca and Chachapoyas.
315030. Col. No. SA66-33. Km. 375, road between Cajamarca and Chachapoyas.
315031. Col. No. SA66-37. 'Mishme'. Km. 354, road from Cajamarca to Chachapoyas. Fruit red, to 5 cm. long.

315032. PHASEOLUS VULGARIS L. Leguminosae.

Col. No. PV66-2. In yard near Quillabamba, north of Cuzco. Mixture of seed types not found in North American bean varieties.

315033. PHASEOLUS sp.

Col. No. PV66-1. Wild along bank of Rio Maranon at Balsas, Cajamarca-Chachapoyas road. Looked like wild *Phaseolus vulgaris*. Only 3 seeds found.

315034 to 315045.

From Japan. Seeds collected by Frank Doleshy, Seattle, Wash. Received June 10, 1966.

315034 and 315035. RHODODENDRON BRACHYCARPUM D. Don ex G. Don Ericaceae. Fujiyama rhododendron.

315034. No. 13. Lower slopes of Mt. Shirane, above Kusatsu, Gumma Prefecture. Elevation 1,450 meters.

315035. No. 15. Lower slopes of Mt. Shirane, above Kusatsu, Gumma Prefecture. Elevation 1,700 meters.

315036. RHODODENDRON DEGRONIANUM Carr.

No. 12. Lower slopes of Mt. Shirane, above Kusatsu, Gumma Prefecture. Elevation 1,450 meters.

315034 to 315045—Continued

315037. RHODODENDRON JAPONICUM (Grady) Schneid.

No. 14. Above Kusatsu. In larch woodland, apparently reforested. Elevation 1,240 meters.

315038. RHODODENDRON KEISKEI Miquel.

No. 6. In habitat, Iwaya Hill, north of Kyoto. Elevation 600 meters. Undershrub to about 33 cm. high in open spaces between plants of *R. metternichii*.

315039. RHODODENDRON KIUSIANUM Makino

No. 8. In habitat, Ebino, Kirishima Mountains, Kyushu. Elevation 1,250 meters. Plants compact, to 70 cm. high.

315040 to 315042. RHODODENDRON MAKINOI Tagg.

315040. No. 1. Temple Garden, Mt. Horai, Aichi Prefecture, Honshu. Elevation 360 meters. Probably transplanted from habitat higher on mountain.

315041. No. 3. In habitat, Mt. Horai, Aichi Prefecture, Honshu. Elevation 550 meters. Steep east slope.

315042. No. 4. Ornamental planting. Horaiji Village. Elevation 200 meters.

315043. RHODODENDRON METTERNICHII Sieb. & Zucc.

Leatherleaf rhododendron.

No. 5. In habitat, Iwaya Hill, north of Kyoto. Elevation 600 meters. From dense, healthy shrubs growing to 4 meters high, in stony soil at top of hill.

315044 and 315045. RHODODENDRON YAKUSIMANUM Nakai

315044. No. 9. In habitat. Elevation 1,720 meters. Wooded ridge of Kuromi-dake.

315045. No. 10. In habitat. Elevation 1,836 meters. Upper ridge to summit of Kuromi-dake.

315046 and 315047.

From Germany. Seeds presented by Berlin-Dahlem Botanical Garden and Museum, Berlin. Received June 10, 1966.

315046. CYCLAMEN AFRICANUM Boiss. & Reut. Primulaceae.

315047. CYCLAMEN GRAECUM Link.

315048 and 315049.

From the United States. Seeds grown by Robert Ornduff, University of California, Berkeley. Received June 10, 1966.

315048. LIMNANTHES MACOUNII Trel. Limnanthaceae.

Progeny plants grown from seed collected at Uplands Park, Victoria, B.C.

315049. LIMNANTHES sp.

Scattered populations in Sonoma County, Calif. Late flowering.

315050 to 315055.

From the United States. Seeds collected by E. E. Terrell, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received June 10, 1966.

315050. LEAVENWORTHIA TORULOSA A. Gray ex Chapm. Cruciferae.

Col. No. 3958. Williamson County, Tenn., 2.8 miles southeast of Kirkland.

315050 to 315055—Continued

- 315051 and 315052.** *LESQUERELLA DENSIPILA* Rollins Cruciferae.
315051. Field $\frac{1}{4}$ mile south of Kirkland, Williamson County, Tenn.
315052. Col. No. 3957. Field behind restaurant at Horton State Park, Marshall County, Tenn.
- 315053.** *LESQUERELLA LESCURI* (A. Gray) S. Wats.
 Col. No. 3959. Cheatham County, Tenn., $\frac{1}{2}$ mile east of Cheatham Dam.
- 315054.** *LESQUERELLA PERFORATA* Rollins
 Field behind Market Basket supermarket, west of Lebanon, Wilson County, Tenn.
- 315055.** *LESQUERELLA STONENSIS* Rollins
 Field 4.8 miles northwest of Walterhill, Rutherford County, Tenn.

315056 to 315059.

From Greece. Seeds presented by Botanical Garden of the University of Athens. Received June 10, 1966.

- 315056.** *DIANTHUS BANATICUS* Heuff. ex Griseb. & Schenk Caryophyllaceae.
- 315057.** *DIANTHUS NOEANUS* Boiss.
- 315058.** *DIANTHUS PLUMARIUS* L.
- 315059.** *QUAMOCLIT COCCINEA* (L.) Moench. Convolvulaceae.
 Scarlet starglory.

315060 to 315063.

From Germany. Seeds presented by Botanical Garden of the University of Saarlandes, Saarbrücken. Received June 10, 1966.

- 315060.** *CYCLAMEN AFRICANUM* Boiss. & Reut. Primulaceae.
- 315061 and 315062.** *CYCLAMEN NEAPOLITANUM* Tenore
- 315061.** No. 1.
- 315062.** No. 2.

315063. *CYCLAMEN PURPURASCENS* Mill.

315064. *PYRUS* sp. Malvaceae.

From Poland. Scions presented by the Research Institute of Pomology, Skierniewice. Received March 22, 1966. Numbered June 10, 1966.

'Hang-pa-li'.

315065 to 315094.

From the Union of Soviet Socialist Republics. Seeds presented by Botanical Gardens in Kazakhstan and Uzbekistan through All-Union Institute of Plant Industry, Leningrad. Received June 10, 1966.

- 315065.** *AGROPYRON TRICHOPHORUM* (Link) Richt. Gramineae.
- 315066.** *AGROPYRON CRISTATUM* (L.) Gaertn. Crested wheatgrass.
- 315067.** *AGROPYRON INTERMEDIUM* (Host) Beauv. Intermediate wheatgrass.
- 315068.** *AGROPYRON DESERTORUM* (Fisch. ex Link) Schult. Standard wheatgrass.
- 315069.** *AGROSTIS ALBA* L. Gramineae. Redtop.
- 315070.** *ASTRAGALUS CICER* L. Leguminosae.
- 315071.** *ASTRAGALUS FALCATUS* Lam. Leguminosae.

315065 to 315094—Continued

315072. *BROMUS* cf. *RIPARIUS* Rehm. Gramineae.
315073. *P* *IPARIUS* Rehm.
315074. *DACTYLIS GLOMERATA* L. Gramineae. Orchardgrass.
315075. *ECHINOCHLOA CRUSGALLI* var. *FRUMENTACEA* (Roxb.) W. F. Wight
Gramineae.
315076. *ECHINOCHLOA* sp.
'Poltava 38'.
315077. *ELAEAGNUS ANGUSTIFOLIA* L. Elaeagnaceae. Russian-olive.
No. 695.
315078. *ELAEAGNUS UMBELLATA* Thunb. Autumn elaeagnus.
No. 1487.
315079. *ELYMUS GIGANTEUS* Vahl Gramineae. Siberian wildrye.
No. 557.
315080. *ELYMUS JUNCEUS* Fisch. Russian wildrye.
315081. *FESTUCA BECKERI* (Hack.) Fedtsch. Gramineae.
315082. *LOTUS CORNICULATUS* L. Leguminosae. Birdsfoot trefoil.
315083. *ONOBRYCHIS ALTISSIMA* Grossh. Leguminosae.
315084. *ONOBRYCHIS ARENARIA* DC. Sandy esparcet.
315085. *ONOBRYCHIS IBERICA* Grossh.
315086. *ONONIS ARVENSIS* L. Leguminosae.
315087. *ORNITHOPUS SATIVUS* Brot. Leguminosae. Serradella.
- 315088 to 315090. *SETARIA ITALICA* ssp. *MAXIMA* Dekapr. & Kasp.
Gramineae.
315088. 'Harkovskaja'.
315089. 'Kamalinskaja 8'.
315090. 'Poltavskaja'.
315091. *ECHINOCHLOA CRUSGALLI* var. *FRUMENTACEA* (Roxb.) W. F. Wight
Gramineae.
315092. *TRIFOLIUM CANESCENS* Willd. Leguminosae.
315093. *TRIFOLIUM PRATENSE* L. Red clover.
315094. *TRIFOLIUM RUBENS* L.

315095 to 315143.

From Great Britain. Seeds purchased by Northview Nursery, Amber,
Pennsylvania from Maxwell and Beale Nursery, Wimborn, Dorset.
Numbered June 10, 1966.

- 315095 to 315102. *CALLUNA VULGARIS* (L.) Salisb. Ericaceae. Heather.
315095. 'Alba Rigida'.
315096. 'E Hoare'.
315097. 'Hammondii Aureaefolia'.
315098. 'Hiemalis'.
315099. 'Kit Hill'.
315100. 'Kynanca'.
315101. 'Searlei Grandiflora'.
315102. 'Tricolor'.

315095 to 315143—Continued

315103. *DABOECIA CANTABRICA* (Huds.) Koch. Ericaceae.
'Praegerae'.
- 315104 and 315105. *ERICA AUSTRALIS* L. Ericaceae.
315104.
315105. 'Mr. Robert'.
- 315106 to 315108. *ERICA CARNEA* L. Spring heath
315106. 'Rosy Gem'.
315107. 'Thomas Kingscote'.
315108. 'Urville'.
- 315109 to 315120. *ERICA CINEREA* L. Twisted heath.
315109. 'C. G. Best'. 315115. 'Janet'.
315110. 'Cherry Stevens'. 315116. 'Joyce Burfitt'.
315111. 'Domino'. 315117. 'Lilacina'.
315112. 'Eden Valley'. 315118. 'P. S. Patrick'.
315113. 'Frances'. 315119. 'Startler'.
315114. 'G. Osmond'. 315120. 'Velvet Night'.
- 315121 and 315122. *ERICA MACKAII* Hook.
315121. 'Lawsoniana'.
315122. 'Plena'.
- 315123 to 315130. *ERICA MEDITERRANEA* L. Biscay heath.
315123. 'Dawn'. 315127. 'H. Maxwell'.
315124. 'F. White'. 315128. 'Nana'.
315125. 'Gwen'. 315129. 'Nana Alba'.
315126. 'Hibernica Brightness'. 315130. 'W. G. Notely'.
315131. *ERICA TERMINALIS* Salisb.
- 315132 and 315133. *ERICA TETRALIX* L. Crossleaf heath.
315132. 'Mary Grace'.
315133. 'Praecox Alba'.
- 315134 to 315140. *ERICA VAGANS* L. Cornish heath.
315134. 'Alba'. 315138. 'Nana'.
315135. 'Carnea'. 315139. 'Pallida'.
315136. 'Grandiflora'. 315140. 'Rubra'.
315137. 'Kevernensis Alba'.
315141. *ERICA VERTICILLATA* Forskal
315142. *PERNETTYA MUCRONATA* (L.f.) Gaud. ex Don Ericaceae.
Broadleaf pernettya.
'Bells Seedling'.
315143. *PIERIS* (hybrid) Ericaceae.
- 315144 to 315146. *SOLANUM TUBEROSUM* L. Solanaceae. Potato.

From the Netherlands. Tubers presented by CEBECO, Hoofddorp. Received
June 15, 1966.

315144 to 315146—Continued

315144. CEBECO 5230-7.
 315145. CEBECO 59180-4.
 315146. CEBECO 60163-3.

315147 to 315207.

From Great Britain. Plants purchased by Northview Nursery, Ambler, Pennsylvania from W. E. Th. Ingwersen, Limited, Suffolk. Numbered June 10, 1966.

315147. AGAPETES SERPENS (Wight) Sleumer Ericaceae.
 315148. AGAPETES sp.
 'Ludgvan'.
 315149. ARABIS BLEPHAROPHYLLA Hook. & Arn. Cruciferae.
 315150 to 315152. ARABIS CAUCASICA Schlecht.
 315150. 'Coccinea'.
 315151. 'Flore Plena'.
 315152. 'Snow Flake'.
 315153. ARABIS × KELLERERI Sunderm.
 315154 to 315167. CALLUNA VULGARIS (L.) Salisb. Ericaceae. **Heather.**
 315154. 'Alba'.
 315155. 'Alba Tenella'.
 315156. 'Atrorubens'. (Alportii)
 315157. 'August Beauty'.
 315158. 'Coccinea'.
 315159. 'C. W. Nix'.
 315160. 'David Eason'.
 315161. 'Hammondii Rubra'. (Bean) Rehd.
 315162. 'Hookstone'.
 315163. 'Joan Sparkes'.
 315164. 'Peter Sparkes'.
 315165. 'Rigida prostrata'.
 315166. 'Ruth Sparkes'.
 315167. 'Searlei Rubra'.
 315168. DABOECIA AZORICA Tutin & E. F. Warb. Ericaceae.
 315169 and 315170. DABOECIA CANTABRICA (Huds.) Koch.
 315169. 'Atropurpurea'.
 315170. 'Bicolor'.
 315171. DRABA AIZOIDES L. Cruciferae.
 315172. DRABA LACAITAE Boiss.
 315173. DRABA POLYTRICHA Ledeb.
 315174. DRABA STYLARIS J. Gay & Koch.
 315175 to 315179. ERICA CARNEA L. Ericaceae. **Spring heath.**
 315175. 'C. J. Backhouse'. 315178. 'Prince of Wales'.
 315176. 'Gracilis'. 315179. 'Queen of Spain'.
 315177. 'Pallida'.

315147 to 315207—Continued

315180. *ERICA CANALICULATA* Andr.
- 315181 and 315182. *ERICA CILIARIS* L. Fringed heath.
 315181. 'Camla'.
 315182. 'Mr. C. H. Gill'.
- 315183 and 315184. *ERICA CINEREA* L. Twisted heath.
 315183. 'Alba Major'.
 315184. 'Alba Minor'.
315185. *ERICA GLANDULOSA* Thunb.
315186. *ERICA MACKAII* Hook.
 'Plena'.
- 315187 to 315192. *ERICA MEDITERRANEA* L. Biscay heath.
 315187. 'Alba'. 315190. 'F. White'.
 315188. 'Arthur Johnson'. 315191. 'Silberschmelz'.
 315189. 'Daryleyensis'. 315192. 'Superba'.
315193. *ERICA SCOPARIA* L.
 'Nana'.
- 315194 to 315197. *ERICA TETRALIX* L.
 315194. 'L. E. Underwood'. 315196. 'Ruby's Variety'.
 315195. 'Pink Glow'. 315197. 'Silver Bells'.
- 315198 to 315201. *ERICA VAGANS* L.
 315198. 'Birch Glow'. 315199. 'Holden Pink'.
 315199. 'Diana Hornibrook'. 315201. 'Pyrenees Pink'.
315202. *ERICA VEITCHII* Bean.
315203. *PERNETTYA MUCRONATA* (L. f) Gaud. ex Don Ericaceae.
 Broadleaf pernettya.
 'Alba'.
315204. *PERNETTYA PROSTRATA* var. *PENTLANDII* (DC.) Sleumer.
315205. *PERNETTYA TASMANICA* Hook. f.
315206. *PHYLLODOCE ALEUTICA* (Spreng.) Heller Ericaceae.
 Mountain heath.
315207. *PIERIS FORRESTII* Harrow ex W. W. Sm. Ericaceae.

315208 to 315212.

From the Republic of South Africa. Seeds presented by Plant Introduction Officer, Department of Agricultural Technical Services, Pretoria. Received June 28, 1966.

315208. *CUCUMIS ANGOLENSIS* Hook f. ex Cogn. Cucurbitaceae.
 Originally from South West Africa. Grown at Horticultural Research Institute, Pretoria.
315209. *CUCUMIS FICIFOLIUS* A. Rich.
 Originally from South Africa. Grown at Horticultural Research Institute, Pretoria.
315210. *CUCUMIS HIRSUTUS* Sond.
 Collected Northern Zululand.

315208 to 315212—Continued315211. *CUCUMIS PROPHETARUM* L.

Originally from the Sudan. Grown at Horticultural Research Institute, Pretoria.

315212. *CUCUMIS ZEYHERI* Sond.

M66/296. Botanic Garden, Pretoria.

315213. ILEX COLCHICA Pojark. Aquifoliaceae.

From the Union of Soviet Socialist Republics. Seeds presented by Hortus Socziensis Dendrarium, Soczi. Received June 28, 1966.

315214. THESPESIA LAMPAS (Cav.) Dalz. & Gibs. Malvaceae.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received June 28, 1966.

I.W. 1335.

315215 to 315226. THEOBROMA CACAO L. Sterculiaceae. **Cacao.**

From Colombia. Scions presented by Estacion Experimental Agricola de Palmira. Numbered July 22, 1966.

Origin Amazonas.

315215. PA 81.

Origin Colombia.

315216. SC 5. Angoleta type. Good yielder. Self compatible.

315217. SC 6. Angoleta type. Good yielder. Self compatible.

315218. SC 13. Angoleta type. Good yielder. Self compatible.

315219. SC 24. Angoleta type. Good yielder. Self compatible.

315220. SC 49. Angoleta type. Good yielder. Self compatible.

315221. SC 51. Angoleta type. Good yielder. Self compatible.

315222. SC 55. Angoleta type. Good yielder. Self compatible.

315223. SPA 17.

315224. TSAN 792. Trinidad seedling Amazon.

315225. TSAN 812. Trinidad seedling Amazon.

315226. TSH 565. Trinidad selected hybrid No. 565.

315227 to 315232. THEOBROMA CACAO L. Sterculiaceae. **Cacao.**

From Brazil. Scions presented by Cacao Experiment Station, Itabuna, Bahia. Numbered July 22, 1966.

315227. Catongo. Origin Brazil. Forestero type; seeds white. Average yield of wet cacao 2.53 kilos. From mother tree.

Origin Brazil.

315228. SIAL 8.

315231. SIAL 008.

315229. SIAL 84.

315232. SIAL 325.

315230. SIAL 070.

315233 to 315273. THEOBROMA CACAO L. Sterculiaceae. **Cacao.**

From Costa Rica. Scions presented by Instituto Interamericana de Ciencias Agricolas, Turrialba. Numbered July 22, 1966.

Origin Amazonas, Colombia.

315233. APA 4. Amelonado type, medium size, greenish red.

315233 to 315273—Continued

315234. APA 5. Amelonado type, medium size, greenish white.
315235. C 40. Origin Ghana. West African Cocoa Research Institute, Ibadan, Nigeria.
- Origin Costa Rica. Selections made at Centro de Cacao La Lola, Costa Rica.
315236. CC 9. Cundeamor type, pod index 12.1, green; seeds small, purple.
315237. CC 10. Amelonado type, pod index 7.3, green; seeds large, purple.
315238. CC 17. Amelonado type, pod index 7.2, green; seeds large, purple.
315239. CC 18. Amelonado type, pod index 5.0, green; seeds large, purple.
- Origin Costa Rica. Selections made at Instituto Interamericana de Ciencias Agrícolas.
315240. CC 39. Amelonado type, greenish white; seeds small, purple. A promising clone.
315241. CC 40. Pure amelonado type, green; seeds small, purple. Self incompatible.
315242. CC 41. Pure amelonado type, green; seeds small, purple.
315243. CC 45. Cundeamor type, small, red, seeds purple. Fair clone.
315244. CC 49. Amelonado type, green; seeds purple.
315245. CC 54. Angoleta type, large, red; seeds large. Self compatible.
315246. CC 56. Cundeamor type, red; seeds large.
315247. CC 57. Angoleta type, red; seeds large.
315248. CC 60. Angoleta type, red; seeds large. Self compatible.
315249. CC 67. Angoleta type, green; seeds large.
315250. CC 71. Cundeamor type, green; seeds large.
315251. NA 34.
- Origin Trinidad.
315252. ICS 29.
315253. ICS 100. Criollo type. Tolerant to witches broom.
- Origin Guatemala.
315254. SGU 4. 315257. SGU 63. Pod index 11.4.
315255. SGU 26. 315258. SGU 82.
315256. SGU 60. Pod index 7.3.
- Origin Brazil. Selections made at Instituto de Cacao da Bahia.
315259. SIC 1. Amelonado type. Four year average yield of mother tree 3.85 kilos dry seeds. Self compatible. Highly resistant to *Ceratocystis fimbriata*.
315260. SIC 7. Amelonado type. Four year average yield of mother tree 3.98 kilos dried seeds. 108 fruits per year. Self compatible. Highly resistant to *Ceratocystis fimbriata*.
- Origin Amazonas, Colombia.
315261. SPA 4. Amelonado type, medium, greenish red.
315262. SPA 5. Amelonado type, medium green.
315263. SPA 7. Amelonado type, large, green; seeds small, violet.
315264. SPA 9. Amelonado type, medium, greenish white; seeds medium, purple. Self compatible. Resistant to *Ceratocystis fimbriata*.

315233 to 315273—Continued

315265. SPA 10. Amelonado type, large, green; seeds medium, violet.
 315266. SPA 11. Amelonado type, large, greenish white; seeds small, purple.
 315267. SPA 12. Amelonado type, medium, green; seeds medium violet.
 315268. TSH 644. Origin Trinidad. Trinidad selected hybrid No. 644.
 Origin Costa Rica.
 315269. UF 654. Received through Puerto Rico.
 315270. UF 242. Amelonado type, green. Resistant to flowery type cushion gall. Self compatible.
 315271. UF 273. Amelonado type, red. Resistant to flowery type cushion gall. Self compatible.
 315272. UF 668. Angoleta type, pod index 8.9, green, warty; seeds large, pale, good yield. Susceptible to black pod. Easy rooting.
 315273. UF 672. Angoleta type, pink; seeds large, clear.

315274 to 315304. THEOBROMA CACAO L. Sterculiaceae. **Cacao.**

From Ecuador. Scions presented by Instituto Nacional de Investigaciones Agropecuarias, Pichilingue. Numbered July 22, 1966.

315274. DR 1. Origin Indonesia. Susceptible to witches broom.
 315275. DR 38. Origin Indonesia.
 315276. EET 12. Origin Colombia. Selection C-2, Tr. 886, Colombia. Venezuelan criollo.
 Origin Ecuador.
 315277. EET 19. Selection Tenguel 15, Tenguel, Guayas. Venezuelan yellow, pod index 7.6. Average dry weight of seeds 1.7 grams. Self compatible.
 315278. EET 40. Santa Rosa 13. Nacional \times Venezuelan yellow, Santa Rosa, Los Rios. Excellent yield.
 315279. EET 53. Santa Rosa 42. Nacional type, Santa Rosa, Los Rios.
 315280. EET 54. Santa Rosa 45. Venezuelan yellow, Santa Rosa, Los Rios.
 315281. EET 62. Porvenir 7. Venezuelan yellow, pod index 8.8, Porvenir, Los Rios. Average dry weight of beans 1.5 grams. Self compatible.
 315282. EET 67. San Antonio 1. Venezuelan yellow, San Antonio, Los Rios.
 315283. EET 72. Granja Vines 8. Venezuelan yellow, Granja Vines, Los Rios.
 315284. EET 75. Pretoria 1. Venezuelan yellow \times Venezuelan purple, La Pretoria, Guayas.
 315285. EET 80. Santa Rosa 19. Venezuelan yellow, Santa Rosa, Los Rios.
 315286. EET 94. Tenguel 1. Venezuelan yellow, Tenguel, Guayas. Excellent yield.
 315287. EET 95. Tenguel 33. Yellow, index 9.5. Average dry weight of seeds 1.4 grams.
 315288. EET 103. Tenguel 25. Nacional \times Venezuelan yellow, pod index 9.0, Tenguel, Guayas. Average dry weight of seeds 1.3 grams. Susceptible to witches broom.
 315289. EET 134. Pajarito 2. Venezuelan purple, Pajarito, Los Rios.

315274 to 315304—Continued

315290. EET 162. Curiquingue 2, pod index 8.4, Los Rios. Average dry weight of seeds 1.4 grams. Excellent yield.
315291. EET 164. San Carlos 1. Nacional \times Venezuelan yellow, San Carlos, Los Rios.
315292. EET 228. Tenguel 54. Nacional \times Venezuelan yellow, Tenguel, Guayas.
315293. EET 283. Tenguel 17. Venezuelan yellow, Tenguel, Guayas.
315294. EET 333. Silecia Archidona 5, Oriente. Resistant to witches broom. Self compatible.
315295. EET 353. Tr. 1702.
315296. EET 364. Selection Patologia 7682, Department Patologia, Pichilingue.
315297. EET 376. Hybrid 1831, Department Patologia, Pichilingue.
315298. EET 381. Hybrid 1970, Department Patologia, Pichilingue.
315299. EET 390. Hybrid 2166, Department Patologia, Pichilingue.
315300. EET 395. Silecia 8, Silecia Archidona, Oriente. Resistant to witches broom. Self incompatible.
315301. EET 399. Selection 7811, Department Patologia, Pichilingue. Open-pollinated seedling of Silecia 1. Some resistance to witches broom.
315302. EET 400. Selection 7818, Department Patologia, Pichilingue. Open-pollinated seedling of Silecia 1. Some resistance to witches broom.
315303. G 8. Origin Indonesia. Tolerant to witches broom.
315304. Silecia 1. Origin Ecuador. Index 5.8. Average dry weight of dry seeds 2.8 grams. Resistant to witches broom.

315305 to 315313. THEOBROMA CACAO L. Sterculiaceae. Cacao.

From Great Britain. Scions presented by Royal Botanical Garden, Kew. Numbered July 22, 1966.

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|----------------|-----------------|
| 315305. PA 5. | 315308. PA 41. |
| 315306. PA 15. | 315309. PA 44. |
| 315307. PA 16. | 315310. SCA 11. |

Origin Amazonas.

315311. Pound 19.
315312. Pound 20.
315313. Pound 32.

315314. THEOBROMA CACAO L. Sterculiaceae. Cacao.

From Grenada. Scions presented by Cacao Industry Improvement Scheme, Grenville. Numbered July 22, 1966.

GS 7. Origin Grenada.

315315 to 315322. THEOBROMA CACAO L. Sterculiaceae. Cacao.

From Guatemala. Scions presented by Los Brilliantes Experiment Station, Retalhuleu. Numbered July 22, 1966.

315315. ICS 8. Origin Trinidad. Trinitario type; seeds large; high yield. Self compatible, fairly homozygous. Susceptible to witches broom.
315316. 34 R. Origin Mexico. Selection made at Finca La Rioja, Tapachula, Chipapas, Mexico. Cundeamor type, greenish white; seeds violet. Mother tree yield over 6 kg. dried seeds per year.

Origin Guatemala.

315315 to 315322—Continued

315317. SGU 3. Pod index 12.8. 315320. SGU 69. Pod index 6.7.
 315318. SGU 50. Pod index 7.5. 315321. SGU 71. Pod index 7.6.
 315319. SGU 54. Pod index 9.9. 315322. SGU 89. Pod index 8.8.

315323 and 315324. THEOBROMA CACAO L. Sterculiaceae. Cacao.

From Haiti. Scions presented by Haitian-American Development Corporation, Port-Au-Prince. Numbered July 22, 1966.

315323. GA 11. Origin Haiti. Selection made in vicinity of Anse de Hainault, Haiti. White cotyledon type.

315324. PA 13. Origin Haiti.

315325. THEOBROMA CACAO L. Sterculiaceae. Cacao.

From Jamaica. Scions presented by Minister of Agriculture, Hope. Numbered July 22, 1966.

PA 150. Origin Amazonas. High yielder. Some resistance to witches broom.

315326 to 315333. THEOBROMA CACAO L. Sterculiaceae. Cacao.

From the Netherlands. Scions presented by Tropische Landbouw Plantenteelt, Wageningen. Numbered July 22, 1966.

Origin Indonesia.

315326. DR 2. Susceptible to witches broom.

315327. DR 1 X DR 38.

315328. GW 1. Origin Dutch New Guinea. Progeny from G × DR cross made at Wageningen.

315329. M 4. Origin West Irian, Indonesia.

315330. M 9. Origin Indonesia.

315331. S 52. Origin Holland.

315332. SM 2. Origin Sao Thome.

315333. SNK 12. Origin Cameroon. Slightly self compatible.

315334 and 315335. THEOBROMA CACAO L. Sterculiaceae. Cacao.

From Puerto Rico. Scions presented by Federal Experiment Station, Mayaguez. Numbered July 22, 1966.

315334. ICS 98. Origin Trinidad. Trinitario type. Self compatible. Resistant to witches broom. Excellent parent.

315335. UF 654. Origin Costa Rica. Trinitario angoleta, pink; seeds large, violet. High yielding.

315336. THEOBROMA CACAO L. Sterculiaceae. Cacao.

From Trinidad. Scions presented by University of West Indies, St. Augustine. Numbered July 22, 1966.

Pound 11. Origin Amazonas.

315337 to 315339. SORGHUM BICOLOR (L.) Moench Gramineae.

From Nigeria. Seeds presented by Institute for Agricultural Research, Ahmadu Bello University, Zaria. Received June 16, 1966.

315337. G 26-3-1.

315338. SFF 60.

315339. SK 5912.

**315340 to 315350. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.
Sweetpotato.**

From New Zealand. Rooted plants presented by the Department of Scientific and Industrial Research, Auckland. Received May 27, 1966. Numbered June 16, 1966.

315340. No. 56. 'Dayonnedan'. Ifugae, Mountain Province Bayninan-Poitaan, Philippines.
315341. No. 67. 'Dinalman/pukin'. Lohoang, Ifugae, Bublei-Liwang, Philippines.
315342. No. 157. 'Qilin'. Sagada area, Philippines. New from Tadian.
315343. No. 170. Manila, Philippines.
315344. No. 191. Liquica, Portuguese Timor.
315345. No. 221. 'Gura'. Hollandia, Netherlands New Guinea.
315346. No. 279. 'Tababafata'. East Highlands, Namura, Territory of New Guinea.
315347. No. 295. West Highlands, Kaugel V., Territory of New Guinea.
315348. No. 357. Tuliligap, New Britain.
315349. No. 366. 'Daxua'. Malaita, Solomon Islands.
315350. No. 375. Santo, New Hebrides.

315351. MEDICAGO SATIVA L. Leguminosae. Alfalfa.

From Spain. Seeds presented by Agricultural Attache, Embassy of Spain, Washington, D.C. Received June 16, 1966.

'San Isidore'. Grown for many years on saline soils in Albaterra, Alicante.

315352 to 315544

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received June 16, 1966.

**315352. AGROPYRON ELONGATUM (Host) Beauv. Gramineae.
Tall wheatgrass.**

No. 0-48240. Voronezh Region.

**315353 to 315355. AGROPYRON INTERMEDIUM (Host) Beauv.
Intermediate wheatgrass.**

315353. No. 81. Voronezh Region.

315354. No. 64. Stavropol Territory. Wild.

315355. No. 65. Stavropol Territory. Wild.

315356 to 315360. AGROPYRON PECTINIFORME Roem. & Schult.

315356. No. 33. Kalmykia. Wild.

315357. No. 34. Stavropol Territory. Wild.

315358. No. 35. Stavropol Territory. Wild.

315359. No. 36. Stavropol Territory. Wild.

315360. No. 78. Altai Territory.

**315361 to 315367. AGROPYRON SIBIRICUM (Willd.) Beauv.
Siberian wheatgrass.**

315361. No. 26. Daghestan. Wild.

315362. No. 27. Kalmykia. Wild.

315363. No. 28. Kalmykia. Wild.

315364. No. 29. Kalmykia. Wild.

315352 to 315544—Continued

315361 to 315367—Continued

315365. No. 30. Kalmykia. Wild.
 315366. No. 31. Stavropol Territory. Wild.
 315367. No. 32. Stavropol Territory. Wild.

315368. *AGROPYRON TENERUM* Vasey. Slender wheatgrass.
 No. 79. Altai Territory.

315369. *ALOPECURUS PRATENSIS* L. Gramineae. Meadow foxtail.
 No. 32973. Czechoslovakia.

315370. *ARRHENATHERUM ELATIUS* (L.) Preal Gramineae. Tall oatgrass.
 No. 91a. Altai Territory.

315371. *BROMUS TOMENTOSUS* Trin. Gramineae.
 No. 95. Altai Territory.

315372. *BROMUS BIEBERSTEINII* Roem. & Schult.
 No. 25. Stavropol Territory. Wild.

315373. *BROMUS CAPPADOCICUS* Boiss. & Bal.
 No. 93. Altai Territory.

315374 to 315385. *BROMUS INERMIS* Leyess. Smooth bromegrass.

315374. No. 14. Stavropol Territory. Wild.

315375. No. 15. Stavropol Territory. Wild.

315376. No. 16. Stavropol Territory. Wild.

315377. No. 20. Krasnodar Territory. Wild.

315378. No. 21. Krasnodar Territory. Wild.

315379. No. 22. 'Krasnodarskij NI'. Krasnodar Territory.

315380. No. 23. Krasnodar Territory. Wild.

315381. No. 24. Moldavia. Wild.

315382. No. 27538. 'VIR-5'. Krasnodar Territory.

315383. No. 27539. Stavropol Territory. Wild.

315384. No. 27541. Krasnodar Territory. Wild.

315385. No. 0-47928. Semipalatinsk Region. Wild.

315386 to 315394. *BROMUS RIPARIUS* Rehm.

315386. No. 1. Crimea. Wild.

315387. No. 2. Stavropol Territory. Wild.

315388. No. 3. Stavropol Territory. Wild.

315389. No. 4. Stavropol Territory. Wild.

315390. No. 5. Krasnodar Territory. Wild.

315391. No. 6. Stavropol Territory. Wild.

315392. No. 7. Stavropol Territory. Wild.

315393. No. 27534. 'VIR-1'. Krasnodar Territory.

315394. No. 27535. 'VIR-2'. Krasnodar Territory.

315395 and 315396. *BROMUS VARIEGATUS* Bieb.

315395. No. 10. Stavropol Territory. Wild.

315396. No. 12. Stavropol Territory. Wild.

315352 to 315544—Continued

315397. *BROMUS RIPARIUS* Rehm.
No. 11. Stavropol Territory. Wild.
315398. *BROMUS INERMIS* Leyss. Smooth bromegrass.
No. 13. Stavropol Territory. Wild.
- 315399 to 315410. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.
315399. No. 610. 'Zaami'. Uzbekistan.
315400. No. 1219. 'Arbakeska'. Uzbekistan.
315401. No. 2580. 'Sakar-palak'. Uzbekistan.
315402. No. 3188. 'Kara-Kaun'. Uzbekistan.
315403. No. 3744. 'Kara-pucak'. Uzbekistan.
315404. No. 3748. 'Umyrvaki'. Uzbekistan.
315405. No. 3802. 'Guliabi oranzevaja'. Uzbekistan.
315406. No. 3828. 'Kok-kala-pos'. Uzbekistan.
315407. No. 5192. 'Charentais'. France.
315408. No. 5200. 'Zuccherino'. Italy.
315409. No. 5679. India.
315410. No. 5682. India.
- 315411 to 315426. *DACTYLIS GLOMERATA* L. Gramineae. Orchardgrass.
315411. No. 37. Stavropol Territory. Wild.
315412. No. 38. 'Dzegutinskaja'. Stavropol Territory.
315413. No. 39. 'Majkonskaja'. Krasnodar Territory.
315414. No. 40. Stavropol Territory. Wild.
315415. No. 41. Stavropol Territory. Wild.
315416. No. 42. Stavropol Territory. Wild.
315417. No. 43. Stavropol Territory. Wild.
315418. No. 46. 'Krasnodarskaja 20'. Krasnodar Territory.
315419. No. 47. Krasnodar Territory. Wild.
315420. No. 27450. 'Pervomajskaja'. Krasnodar Territory.
315421. No. 27513. 'Urunskaja'. Krasnodar Territory.
315422. No. 27514. 'Kutorskaja'. Krasnodar Territory.
315423. No. 27863. 'Leningradskaja 853'. Pavlovsk.
315424. No. 28455. Krasnodar Territory. Wild.
315425. No. 32086. Kabardiko-Balkaria. Wild.
315426. No. 34720. Semipalatinsk Region. Wild.
- 315427 to 315429. *ELYMUS SIBIRICUS* L. Gramineae.
315427. No. 27868. Buriatia.
315428. No. 29337. Krasnoyarsk Territory. Wild.
315429. No. 34750. Mongolia.
- 315430 to 315432. *FESTUCA ARUNDINACEA* Schreb. Gramineae. Tall fescue.
315430. No. 50. Krasnodar Territory. Wild.
315431. No. 238881. 'Brakantia'. Holland province.

315352 to 315544—Continued

315430 to 315432—Continued

315432. No. 239864. England.

315433 and 315434. *FESTUCA ARUNDINACEA* Schreb.

Tall fescue.

315433. No. 62. Stavropol Territory. Wild.

315434. No. 63. Stavropol Territory. Wild.

315435 to 315447. *FESTUCA PRATENSIS* Huds.

315435. No. 55. Stavropol Territory. Wild.

315436. No. 56. Stavropol Territory. Wild.

315437. No. 57. 'Krasnodarskaja 14'. Krasnodar Territory.

315438. No. 58. Stavropol Territory. Wild.

315439. No. 59. Stavropol Territory. Wild.

315440. No. 60. Krasnodar Territory. Wild.

315441. No. 61. Rostov Region. Wild.

315442. No. 22827. 'Leningradsckaja 804'. Leningrad Region.

315443. No. 27504. 'Stepnaja NI'. Krasnodar Territory.

315444. No. 27505. 'Kubanskaja 2'. Krasnodar Territory.

315445. No. 27505a. 'Stepnaja 3'. Krasnodar Territory.

315446. No. 33529. 'Stavropolskij'. Stavropol Territory.

315447. No. 0-47946. Semipalatinsk Region. Wild.

315448. *FESTUCA RUBRA* L.

Red fescue.

No. 238884. Holland province.

315449. *LOTUS CAUCASICUS* Kuprian Leguminosae.

No. 44. Stavropol Territory. Wild.

315450 to 315455. *LOTUS CORNICULATUS* L.

Birdsfoot trefoil.

315450. No. 45. Stavropol Territory. Wild.

315451. No. 46. Stavropol Territory. Wild.

315452. No. 47. Krasnodar Territory. Wild.

315453. No. 28496. Leningrad Region. Wild.

315454. No. 29436. Leningrad. Wild.

315455. No. 31562. 'Gelsvus'. Lithuania.

315456. *MEDICAGO* (hybrid) Leguminosae.No. 30. (*M. coccinea* × *M. falcata*). Kalmykia. Wild.315457 and 315458. *MEDICAGO CANCELLATA* Bieb.

315457. No. 26. Stavropol Territory. Wild.

315458. No. 28. Stavropol Territory. Wild.

315459 to 315462. *MEDICAGO COERULEA* Less^g: ex Ledeb.

315459. No. 18. Dagestan. Wild.

315460. No. 19. Mixed with *M. polychroa*. Stavropol Territory. Wild.315461. No. 20. Mixed with *M. hemicycla*. Stavropol Territory. Wild.315462. No. 21. Mixed with *M. hemicycla*. Kalmykia. Wild.315463. *MEDICAGO SATIVA* L.

Alfalfa.

No. 29. Stavropol Territory. Wild.

315352 to 315544—Continued

- 315464 to 315466. *MEDICAGO COERULEA* Less. ex Ledeb.
 315464. No. 12822. Daghestan. Wild.
 315465. No. 19989. Grozny Region. Wild.
 315466. No. 0-46543. Daghestan. Wild.
- 315467 to 315480. *MEDICAGO FALCATA* L.
 315467. No. 11. Stavropol Territory. Wild.
 315468. No. 12. Kalmykia. Wild.
 315469. No. 15. Mixed with *M. hemicycla*. Daghestan. Wild.
 315470. No. 13161. Rostov Region. Wild.
 315471. No. 16409. Stavropol Territory. Wild.
 315472. No. 20630. Stavropol Territory. Wild.
 315473. No. 22382. 'Maikopskaja Leltaja'. Krasnodar Territory.
 315474. No. 22506. 'Kubanskaja Leltaja'. Krasnodar Territory.
 315475. No. 27723. Crimea. Wild.
 315476. No. 29208. Krasnodar Territory. Wild.
 315477. No. 29209. Krasnodar Territory. Wild.
 315478. No. 0-46537. Stavropol Territory. Wild.
 315479. No. 0-46538. Kabardino-Balkaria. Wild.
 315480. No. 0-46539. Mixed with *M. hemicycla*. Daghestan. Wild.
315481. *MEDICAGO HEMICYCLA* Grossh.
 No. 0-39415. Stavropol Territory. Wild.
315482. *MEDICAGO SATIVA* L. Alfalfa.
 No. 28045. North Ossetia. Wild.
315483. *MEDICAGO POLYCHROA* Grossh.
 No. 29003. Daghestan. Wild.
315484. *MEDICAGO SATIVA* var. *GLUTINOSA* (Bieb.) Urban.
 No. 30071. North Ossetia. Wild.
315485. *MEDICAGO* (hybrid)
 No. 0-39415. Mixture of *M. falcata* and *M. glutinosa*. Stavropol Territory. Wild.
- 315486 and 315487. *PHALARIS ARUNDINACEA* L. Gramineae.
 Reed canarygrass.
 315486. No. 33923. The Ukraine.
 315487. No. 34003. Sverdlovsk Region.
315488. *PHLEUM PHLEOIDES* (L.) Karst. Gramineae.
 No. 0-47950. Semipalatinsk Region.
- 315489 and 315490. *PHLEUM PRATENSE* L.
 315489. No. 10714. Pavlovsk.
 315490. No. 20257. Leningrad Region.
315491. *AGROPYRON MUTABILE* Drobov Gramineae.
 No. 77. Altai Territory.
315492. *AGROPYRON CANINUM* (L.) Beauv. Gramineae.
 No. 0-48243. Voronezh Region.

315352 to 315544—Continued

315493. *AGROPYRON FIBROSUM* Nevski Gramineae.
No. 29277. Omsk Region.
315494. *AGROPYRON TRACHYCAULUM* (Link) Malte.
No. 25707. 'Morscanskij 996'. Tambov Region.
315495. *SANGUISORBA MINOR* Scop. Rosaceae. **Small burnet.**
No. 48. Krasnodar Territory. Wild.
315496. *TRIFOLIUM FRAGIFERUM* L. Leguminosae. **Strawberry clover.**
No. 43. Krasnodar Territory. Wild.
- 315497 to 315503. *TRIFOLIUM HYBRIDUM* L. **Alsike clover.**
315497. No. 31. Stavropol Territory. Wild.
315498. No. 39. Stavropol Territory. Wild.
315499. No. 29919. 'Krasnorefimskij rozovyj N4'.
Sverdlovsk Region.
315500. No. 30987. 'SD-326/19'. Arkhangelsk Region.
315501. No. 31577. 'Daubiaj'. Lithuania.
315502. No. 34589. 'Rausvaj'. Lithuania.
315503. No. 34658. 'Rozovyj 78'. Latvian.
- 315504 to 315540. *TRIFOLIUM PRATENSE* L. **Red clover.**
315504. No. 35. Stavropol Territory. Wild.
315505. No. 36. Krasnodar Territory. Wild.
315506. No. 37. Stavropol Territory. Wild.
315507. No. 38. 'Abadzehskij'. Krasnodar Territory.
315508. No. 39. Stavropol Territory. Wild.
315509. No. 40. Stavropol Territory. Wild.
315510. No. 41. Stavropol Territory. Wild.
315511. No. 42. 'Cerkesskij'. Stavropol Territory.
315512. No. 23473. 'Hibinskij 1'. Murmansk Region.
315513. No. 24631. 'Srednerusskij'. Orel Region.
315514. No. 24653. 'Koniscevskij'. Jaroslaw.
315515. No. 25748. 'Cujskij'. Kirgizia.
315516. No. 26047. 'Sivorickij 416'. Leningrad Region.
315517. No. 26702. 'Frunzenskij I'. Kirgizia.
315518. No. 27406. 'Lembke'. Deutsches Democratic Republic.
315519. No. 27669. 'Primorskij 28'. Primorski province.
315520. No. 27737. 'Gubеровskij'. Primorski province.
315521. No. 30731. 'Ussrijskij kriazevoj'. Primorski province.
315522. No. 31355. Italy.
315523. No. 31819. 'Dmitrievskij'. Kursk Region.
315524. No. 31868. 'Jygeva 433'. Estonia.
315525. No. 32119. 'Montgomery'. England.
315526. No. 32122. 'Essex singlecut'. England.
315527. No. 32125. 'Costwold Broad'. England.

315352 to 315544—Continued

315504 to 315540—Continued

315528. No. 32143. 'Pecerskij ulucsennyj'. Komi.
 315529. No. 32644. 'Merkeu'. Sweden.
 315530. No. 32772. 'Kacanovskij 14'. Pskov Region.
 315531. No. 32809. 'Medium'. Canada.
 315532. No. 33102. 'Abadzehskij mestnyj'. Krasnodar territory.
 315533. No. 33538. 'Sofia 66'. Bulgaria.
 315534. No. 33588. 'Memmos'. Canada.
 315535. No. 34293. 'Essi II'. Sweden.
 315536. No. 34294. 'Gota'. Sweden.
 315537. No. 34296. 'Changins 56'. Switzerland.
 315538. No. 34300. 'Denfeld Monarh IV'. Denmark.
 315539. No. 34471. 'Nosovskij'. The Ukraine.
 315540. No. 34622. 'Gloria mestuyj ulucsennyj'. The Ukraine.

- 315541 to 315544. TRIFOLIUM REPENS L. White clover.
 315541. No. 33. Stavropol Territory. Wild.
 315542. No. 34. Stavropol Territory. Wild.
 315543. No. 17760. 'Gigant'. The Ukraine.
 315544. No. 27799. 'Jygeva 4'. Estonia.

315545 to 315575.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received June 22, 1966.

315545. BROMUS ERECTUS Huds. Gramineae. Meadow bromegrass.
 C.P.I. 26518.
 315546. BROMUS UNIOLOIDES HBK
 C.P.I. 25746. Slightly infected by rust.
 315547 and 315548. CHLORIS GAYANA Kunth Gramineae. Rhodesgrass.
 315547. N 558. Katambora.
 315548. Q 654. Australian.
 315549. ERAGROSTIS CURVULA (Schrud.) Nees Gramineae. Weeping lovegrass.
 C.P.I. 14369. Broader-leaved line, more palatable than 'Ermelo'.
 315550 to 315552. FESTUCA ARUNDINACEA Schreb. Gramineae. Tall fescue.
 315550. C.P.I. 15301.
 315551. C.P.I. 18948.
 315552. C.P.I. 18954.
 315553. LATHYRUS TINGITANUS L. Leguminosae.
 S 23.
 315554. LOTUS CORNICULATUS L. Leguminosae. Birdsfoot trefoil.
 C.P.I. 27752. 'Sao Gabriel'.

315545 to 315575—Continued

315555. *LOTUS HISPIDUS* Desf.

C.P.I. 23289.

315556. *LUPINUS PILOSUS* Murr. Leguminosae.

Western Australia. 1960—one harvest.

315557. *MEDICAGO LITTORALIS* Rhode ex Loisel. Leguminosae.

V 231. 'Harbinger'.

315558 to 315560. *MEDICAGO SATIVA* L.

Alfalfa.

315558. 'Canberra Hay'. Bred line.

315559. 'Canberra Creeping Rooted'. Bred line.

315560. V 188. 'Hunter River Lucerne'.

315561. *MEDICAGO TRUNCATULA* Gaertn.

V 232.

315562. *PASPALUM COMMERSONII* Lam. Gramineae.

C.P.I. 2696.

315563. *PASPALUM DILATATUM* Poir.

Dallisgrass.

V 211.

315564. *TRIFOLIUM FRAGIFERUM* L. Leguminosae.

Strawberry clover.

V 214.

315565 and 315566. *TRIFOLIUM HIRTUM* All.

Rose clover.

315565. 'Sirint'.

315566. V 246. 'Kondinin'.

315567. *TRIFOLIUM PRATENSE* L.

Red clover.

V 191. 'Montgomery Clover'.

315568. *TRIFOLIUM REPENS* L.

White clover.

V 200. 'Mother White Clover'.

315569 to 315571. *TRIFOLIUM SUBTERRANEUM* L.

Subterranean clover.

315569. V 151. 'Baccus Marsh'.

315570. V 233. 'Mt. Barker'.

315571. V 165. 'Tallarook'.

315572 and 315573. *VICIA BENGHALENSIS* L. Leguminosae. Purple vetch.

315572. V 222. 'Commercial'.

315573. C.P.I. 16627.

315574. *VICIA DASYCARPA* Ten.

Woollypod vetch.

C.P.I. 9189.

315575. *VICIA SATIVA* L.

V 221. 'Golden Tares'.

315576 to 315583.

From India. Seeds presented by Indian Agricultural Research Institute,
Division of Plant Introduction, New Delhi. Received June 28, 1966.

315576 to 315580. *LAGENARIA SICERARIA* (Mol.) Standl. Cucurbitaceae.

315576. I.C. 10106. Bottle gourd.

315577. I.C. 10113. Bottle gourd.

315576 to 315583—Continued**315576 to 315580—Continued**

315578. I.C. 10129. Bottle gourd.

315579. 'Long'. Bottle gourd.

315580. 'Simla'. Round. Bottle gourd.

315581 to 315583. *LUFFA ACUTANGULA* (L.) Roxb. Cucurbitaceae.
Singkwa towelgourd.

315581. I.C. 10109. Bottle gourd.

315582. 'Simla'. Ridge gourd.

315583. 'Simla'. Sponge gourd.

315584 to 315604.From Israel. Seeds presented by Volcani Institute of Agricultural Research,
Plant Introduction Service, Rehovoth. Received June 28, 1966.315584 to 315601. *HYPARRHENIA HIRTA* (L.) Stapf Gramineae.

315584. Row No. 1.

315593. Row No. 10.

315585. Row No. 2.

315594. Row No. 11.

315586. Row No. 3.

315595. Row No. 12.

315587. Row No. 4.

315596. Row No. 13.

315588. Row No. 5.

315597. Row No. 14.

315589. Row No. 6.

315598. Row No. 15.

315590. Row No. 7.

315599. Row No. 16.

315591. Row No. 8.

315600. Row No. 18.

315592. Row No. 9.

315601. Row No. 19.

315602 to 315604. *PHALARIS AQUATICA* L. Gramineae. Large canarygrass.

315602. 47-54.

315603. 53-54.

315604. 59-54.

315605 to 315637. ARACHIS HYPOGAEA L. Leguminosae.**Peanut.**From Israel. Seeds presented by A. Ashri, Faculty of Agriculture, Rehovot.
Numbered June 28, 1966.

315605. 'Dixie Anak'. Selection from 'Dixie'. Pods larger than type.

315606. 'G 2'. Selection from 'Georgia Bu'.

315607. Line 123. Selection from U.S. introductions.

315608. Line 136. Selection from U.S. introductions.

315609. 'NC 2'.

315610. 'Pearl Black'.

315611. 'Pearl White'.

315612. 'Pintar Bunch'. Goldin No. 167 from East Africa.

315613. 'Schwartz 21'. Goldin No. 117 from Java.

315614. 'Spanish No. 9'.

315615. 'Tatui 55'. Goldin No. 110 from Japan.

315616. 'V 4'. Selection from 'Virginia Bunch Improved'.

315617. 'Virginia Adom'.

315605 to 315637—Continued

315618. 'VSM' equals 'Virginia Bunch Improved'. Long-standing commercial variety.

315619. 'White Kongwa'. East Africa.

Bulk of F4 selections from 'V 4' (P.I. 315616) × 'G 2' (P.I. 315606).

315620. No. 20.

315621. No. 28.

315622. No. 48.

Bulk of F4 selections from 'G 2' (P.I. 315606) × 'V 4' (P.I. 315616).

315623. No. 67.

315624. No. 68.

315625. No. 98.

Bulk of F5 seeds.

315626. No. 202. 'V 4' (P.I. 315616) × 'NC 2' (P.I. 315609).

315627. No. 203. 'Dixie Anak' (P.I. 315605) × 'V 4' (P.I. 315616).

315628. No. 206. 'NC 2' (P.I. 315609) × 'VSM' (P.I. 315618).

315629. No. 207. 'V 4' (P.I. 315616) × with 'NC 2' (P.I. 315609).

315630. No. 209. 'V 4' (P.I. 315616) × 'Dixie Anak' (P.I. 315605).

315631. No. 210. 'V 4' (P.I. 315616) × 'Dixie Anak' (P.I. 315605).

315632. No. 212. 'VSM' (P.I. 315618) × No. 123 (P.I. 315607).

Bulk of M6 selections from 'Virginia Bunch Improved'

(P.I. 315618) treated with diethyl sulfate.

315633. No. 217. Pod size and weight variable; shells thin.

315634. No. 220. Pod size and weight variable; shells thin.

315635. No. 222. Pod size and weight variable; shells thin.

315636. No. 231. Pod size and weight variable; shells thin.

315637. No. 224. Shell medium; yield good.

315638 to 315652. ORYZA SATIVA L. Gramineae.**Rice.**

From El Salvador. Seeds presented by Centro Nacional de Agronomía, Santa Tecla through C. L. Horn, Agricultural Administrator, United States Department of Agriculture, Agency for International Development, Technical Assistance Agreement, San Salvador. Number June 29, 1966.

315638. 'Blue Bonnet 50'.

315643. 'Nilo 3-B'.

315639. 'Nilo 2'.

315644. 'Nilo 48-A'.

315640. 'Nilo 47'.

315645. 'Nilo 1-M'.

315641. 'Nilo 48'.

315646. 'Palo Gordo A'.

315642. 'Nilo 3-A'.

Selections:

315647. 43-5-10.

315650. 45-5-15.

315648. 45-5-2.

315651. 45-5-17.

315649. 45-5-6.

315652. 45-5-18.

315653 to 315750.

From the United States. Seeds presented by National Plant Materials Center, Soil Conservation Service, Beltsville, Md. Numbered June 29, 1966.

315653 to 315750—Continued

315653. *ANDROPOGON GAYANUS* Kunth Gramineae. **Bluestem.**

BN-10419-59. Cross between BN-6280-49 (P.I. 186277) and BN-9035-52.

315654 to 315664. *ANDROPOGON GERARDII* Vitman **Big bluestem.**

315654. BN-311-64. Soil Conservation Service, Manhattan, Kans. Reproduced at National Plant Materials Center.

315655. BN-9703-59. Collected 1958 in Concord, N. H. Snow disposal area east of Merrimac River Bridge, north of Route 4. Reproduced at National Plant Materials Center. Plants vigorous, to 6 feet high; heavy seeder.

315656. BN-9982-60. Collected 1958 on Blossom Road, Elma Township along Buffalo Creek, N. Y. Reproduced at National Plant Materials Center.

Reproduced at the Soil Conservation Service, Plant Materials Center, Bismarck, N. Dak.

315657. BN-15941-64. North Dakota.

315658. BN-15942-64. South Dakota.

315659. BN-15943-64. South Dakota.

315660. BN-15944-64. South Dakota.

315661. BN-15945-65. South Dakota.

315662. BN-15946-64. Nebraska.

315663. BN-15947-64. South Dakota.

315664. BN-15948-64. South Dakota.

315665 and 315666. *ANDROPOGON HALLII* Hack. **Sand bluestem.**

315665. BN-4493-64. Collected near Coldwater, Comanche County, Kans. Best of 35 accessions tested at the Manhattan Soil Conservation Service Plant Materials Center.

315666. BN-16208-64. Collected in Carson, N. Dak., in 1960. Foundation seed increase field planted in 1961 at Plant Materials Center, Bismarck, N. Dak.

315667. *ASTRAGALUS CANADENSIS* L. Leguminosae.

BN-4679-47. Soil Conservation Service, Manhattan, Kans. Legume project.

315668. *ASTRAGALUS CICER* L.

BN-6974-49. Soil Conservation Service Nursery, Ames, Iowa.

315669. *ASTRAGALUS DRUMMONDII* Dougl.

BN-6019-47. Collected along Highway 30, ten miles west of Cheyenne, Wyo. Non poisonous.

315670. *ASTRAGALUS NUTTALIANUS* DC.

BN-4687-56. Soil Conservation Service, Manhattan, Kans. Legume project, 1947. Seed reproduced at National Plant Materials Center and combined with original seed.

315671. *ASTRAGALUS RACEMOSUS* Pursh.

BN-9346-58. Collected in Barber County, Kans. From breaks and range site west half Section 15. Shallow soil.

315672. *ASTREBLA LAPPACEA* (Lindl.) Domin. Gramineae.

BN-11708-61. Australia. Selection from P.I. 238232. Seed reproduced at National Plant Materials Center.

315653 to 315750—Continued

315673. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng Gramineae. **King's Ranch bluestem.**

BN-4419-60. Beltsville Nursery selection from P.I. 147799. Seed reproduced at National Plant Materials Center. Exceptionally vigorous; prostrate; heavy seeder.

315674. *BRACHIARIA SUBQUADRIpara* (Trin.) Hitchc. Gramineae.

BN-10810-64. Original source unknown. Reproduced by Soil Conservation Service, Arcadia, Fla.

315675. *BROMUS* (hybrid) Gramineae.

BN-10871-60. (*B. willdenowii* × *B. stamineus*). Selection from P.I. 238245 from Australia. Seed reproduced at National Plant Materials Center. Dense leafy selection.

315676. *BROMUS RIPARIUS* Rehm.

BN-3565-63. Soviet Union. Seed reproduced by Soil Conservation Service, Pullman, Wash.

315677. *BROMUS WILLDENOWII* Kunth **Rescuegrass.**

BN-15861-64. United States Agency for International Development, Tunis, Tunisia, through S. H. Fuchs, Soil Conservation Service.

315678. *BROMUS ERECTUS* Huds. **Meadow brome grass.**

BN-7992-64. Originally from Jardin Horto Botanica, Madrid, Spain. Seed reproduced at National Plant Materials Center.

315679 to 315681. *CENCHRUS CILIARIS* L. Gramineae. **Buffelgrass.**

315679. BN-9929-61. Seeds received from K. E. Smith, plant materials specialist, Soil Conservation Service, Knox City, Tex. Reproduced at National Plant Materials Center.

315680. BN-13576-62. Five rhizomatous plants selected from P.I. 185564 at Beltsville Nursery. Reproduced at National Plant Materials Center.

315681. BN-13577-62. Selected from P.I. 271587. Seed reproduced at National Plant Materials Center.

315682. *CENCHRUS SETIGERUS* Vahl **Sandbur.**

BN-13580-63. J. R. Harlan collection No. H-1535, India. Seed reproduced at National Plant Materials Center.

315683. *CHLORIS CUCULLATA* Bisch. Gramineae. **Hooded windmill grass.**

BN-8002-62. Originally from Jardin Horto Botanica, Madrid, Spain. Seed reproduced at National Plant Materials Center.

315684. *CHLORIS INFLATA* Link

BN-16297-60. Southern Rhodesia. Seed reproduced by Soil Conservation Service, Americus, Georgia. Plants 36 inches high; 30 inch spread; heavy seeder; not winter hardy.

315685. *CYNODON DACTYLON* (L.) Pers. Gramineae. **Bermudagrass.**

BN-16156-58. 'Borinquen'. Bermuda via Puerto Rico. Seed reproduced by Soil Conservation Service, Arcadia, Fla.

315686. *CYTISUS DECUMBENS* (Willd.) Spach. Leguminosae.

BN-10779-64. Cuttings obtained from Arnold Arboretum, Jamaica Plain, Massachusetts, 1959. Seed produced at National Plant Materials Center.

315653 to 315750—Continued

315687. *CYTISUS* × *PRAECOX* Wheeler ex Bean **Warminster broom.**

BN-8546-61. Softwood cuttings obtained from Arnold Arboretum, Jamaica Plain, Massachusetts, 1956. Seed produced at National Plant Materials Center.

315688. *CYTISUS SUPINUS* L. **Bigflower broom.**

BN-9373-58. Department of Parks, Rochester, N.Y. Upright to procumbent shrub to 3 feet high.

315689 and 315690. *DALEA ALOPECUROIDES* Willd. Leguminosae.

315689. BN-2280-50. Collected in Benton Harbor, Mich., 1939. Annual, to 2 feet high; pinnate leaves, self pollinated; seeds readily. Seed reproduced at National Plant Materials Center.

315690. BN-6977-56. Obtained from Soil Conservation Service Nursery, Ames, Iowa. Seeds reproduced at National Plant Materials Center and combined with original seed.

315691. *DALEA JAMESII* Torr. & Gray

BN-4700-47. Obtained from Soil Conservation Service, Manhattan, Kans. Legume project.

315692. *DALEA OAXACANA* (Rose) Bullock

BN-4749-48. Soil Conservation Service Nursery, Tucson, Ariz.

315693. *DIGITARIA SMUTSII* Stent Gramineae.

BN-13579-62. Beltsville Nursery selection from P.I. 258436 and 258439. Reproduced at National Plant Materials Center.

315694 to 315699. *ECHINOCHLOA CRUSGALLI* (L.) Beauv. Gramineae. **Barnyardgrass.**

315694. BN-7018-62. Soil Conservation Service Nursery, Rock Hill, S. C. Reproduced at Plant Materials Center, Soil Conservation Service, Coffeeville, Miss.

315695. BN-14663-62. Big Flats, N.Y., through Americus, Ga. Reproduced at Plant Materials Center, Soil Conservation Service, Coffeeville, Mississippi.

315696. BN-14664-62. California, through Plant Materials Center, Arcadia, Fla. Reproduced at Plant Materials Center, Soil Conservation Service, Coffeeville, Miss.

315697. BN-14665-62. Plant Materials Center, Arcadia, Fla. Reproduced at Plant Materials Center, Soil Conservation Service, Coffeeville, Miss. Seedlings vigorous; produced two seed crops in 1961; 3,363 lb. per acre.

315698. BN-14666-62. Plant Materials Center, Arcadia, Fla. Reproduced at Plant Materials Center, Soil Conservation Service, Coffeeville, Miss.

315699. BN-14698-63. Commercial seed. Reproduced by Soil Conservation Service, Arcadia, Fla.

315700. *ELEUSINE INDICA* (L.) Gaertn. Gramineae. **Goosegrass.**

BN-9337-58. Pretoria, South Africa. Contaminant from P.I. 161636. Seed reproduced at National Plant Materials Center.

315701. *GLYCINE MAX* (L.) Merr. Leguminosae. **Soybean.**

BN-10631-60. Tennessee Department of Game, 1959. Reproduced at National Plant Materials Center.

315653 to 315750—Continued

315702. *HYPERICUM BUCKLEYI* M. A. Curtis Guttiferae.

BN-8551-59. Softwood cuttings obtained from Arnold Arboretum, Jamaica Plain, Mass., 1956. Seed produced at National Plant Materials Center.

315703. *HYPERICUM* sp.

BN-11878-61. Plants obtained from Soil Conservation Service, Raleigh, N.C. Seed produced at National Plant Materials Center.

315704 and 315705. *LATHYRUS JAPONICUS* Willd. Leguminosae.

315704. BN-4320-46. Oregon.

315705. BN-8560-56. Soil Conservation Service, Birch Point, near Prospect Harbor, Hancock County, Maine. Growing on gravel dune in association with *Elymus mollis* near normal high water. Nodulated, rhizomatous.

315706. *LATHYRUS LATIFOLIUS* L. **Perennial peavine.**

BN-6041-49. Boulder, Colorado through Soil Conservation Service, Albuquerque, N. Mex. From plants with inconspicuous bloom, but strong vegetative growth.

315707. *LATHYRUS LATIFOLIUS* var. *SPLENDENS* Grön. & Rpl.

BN-6038-49. Boulder, Colo. From heavy-flowering plants.

315708 to 315710. *LATHYRUS POLYMORPHUS* ssp. *INCANUS* (Smith & Rydb.) C. L. Hitchc.

315708. BN-5938-48. Soil Conservation Service Nursery, Albuquerque, N. Mex.

315709. BN-6025-49. Highway 10, Albuquerque, N. Mex. Elevation 6,000 feet.

315710. BN-4555-46. Nebraska National Forest Sand Hill, Halsey, Nebr.

315711 to 315714. *LATHYRUS TUBEROSUS* L.

315711. BN-4926-49. Wyoming, through Plant Materials Center, Manhattan, Kans. Selection made at Two Rivers Nursery, 1942. Seed reproduced in Kansas.

315712. BN-8472-53. Siberia, through Mandan, N. Dak. Seed reproduced by Soil Conservation Service, Albuquerque N. Mex.

315713. BN-8851-51. Plant Materials Center, Manhattan, Kans. Seed reproduced by Soil Conservation Service, Manhattan, Kans., 1951.

315714. BN-9040-57. Waterloo, Neb., through Soil Conservation Service, Elsberry, Mo.; seed reproduced in Missouri.

315715. *LATHYRUS VENOSUS* var. *MERIDIONALIS* Butter & St. John.

BN-11059-64. Dover, Tenn. Seed reproduced at National Plant Materials Center.

315716. *MEDICAGO HEMICYCLA* Grossh. Leguminosae.

BN-8954-59. Transcaucasia. Obtained from University of Alberta, Canada. Seed reproduced at National Plant Materials Center.

315717. *MELILOTUS NEAPOLITANA* Ten. Leguminosae.

BN-7933-53. Horto Botanica, Madrid, Spain. Reproduced at National Plant Materials Center.

315718. *MELILOTUS SUAVEOLENS* Ledeb.

BN-8062-59. Horto Botanica, Madrid, Spain. Seed reproduced at National Plant Materials Center.

315653 to 315750—Continued

- 315719 and 315720. *PANICUM ANTIDOTALE* Retz. Gramineae.
Blue panicgrass.
315719. BN-14710-62. Soil Conservation Service, Americus, Ga. Seed reproduced by Soil Conservation Service, Arcadia, Fla.
315720. BN-14711-62. Soil Conservation Service, Americus, Ga. Seed reproduced by Soil Conservation Service, Arcadia, Fla.
315721. *PANICUM COLORATUM* L. Panicgrass.
BN-1109-45. Pretoria, South Africa. 'Makarikari' strain selection from Prinshof Grass Breeding Station, Pretoria. Tested at New Mexico, Texas, California, and Spartansburg, S. C., Soil Conservation Service, Plant Materials Centers. Seed reproduced by Soil Conservation Service, Tucson, Ariz.
- 315722 to 315725. *PANICUM VIRGATUM* L. Switchgrass.
315722. BN-8356-64. Greene County, Ga. Seed reproduced by Soil Conservation Service, Americus, Ga.
315723. BN-8358-62. Hoffman, N. C. Seed reproduced by Soil Conservation Service, Coffeetown, Miss.
315724. BN-10860-61. Ellsworth, Kans., 1956. Seed reproduced at National Plant Materials Center.
315725. BN-14669-92. Plant Materials Center, Soil Conservation Service, Coffeetown, Miss. Native stand.
- 315726 to 315728. *PANICUM VIRGATUM* var. *CUBENSE* Griseb.
315726. BN-10997-64. Scotland County, N. C. Seed from single plant; to 3 feet high, many stems. 1960.
315727. BN-11357-63. Apex, N. C., through Soil Conservation Service Nursery, Chapel Hill, N. C. Seed reproduced at National Plant Materials Center. Plant to 30 inches high, dense, fine stems and leaves. Viable seed moderate to good; light production.
315728. BN-13645-64. Beltsville Nursery selection. Reproduced at National Plant Materials Center. Selections from combined seed of BN-10996 and BN-10997 (Scotland County, N. C.).
315729. *PASPALUM DILATATUM* Poir. Gramineae. Dallisgrass.
BN-16167-62. Commercial seed from Melbourne, Australia. Seed reproduced by Soil Conservation Service, Arcadia, Fla.
315730. *PASPALUM FLORIDAUM* var. *GLABRATUM* Engelm. ex Vasey.
BN-9002-62. Route 3, 3 miles north of Warsaw, Va. 1957. Seed reproduced at National Plant Materials Center.
315731. *PASPALUM MALACOPHYLLUM* Trin. Ribbed paspalum.
BN-1975-62. Florida. Reproduced by Soil Conservation Service, Arcadia, Fla. Brooksville strain.
- 315732 to 315735. *PASPALUM NOTATUM* Fluegge. Bahiagrass.
315732. BN-11553-61. 'Underwoods'. Tennessee. Seed reproduced at National Plant Materials Center. Cold hardy in Tennessee. Resembles 'Wilmington'.
315733. BN-11554-63. North Carolina. From field of Pensacola Bahia. Seed reproduced at National Plant Materials Center.
315734. BN-11573-61. Beltsville Nursery selection. Seed reproduced at National Plant Materials Center. Cold hardy selection out of 'Wilmington'.

315653 to 315750—Continued**315732 to 315735—Continued**

315735. BN-16172-63. Ocala, Florida. Seed reproduced by Soil Conservation Service, Arcadia, Florida.

315736. PENNISETUM MACROURUM Trin. Gramineae.

BN-12113-61. Contaminant from BN-9929 (T-4701, *Cenchrus ciliaris* from Texas). Seed reproduced at National Plant Materials Center.

315737. PHASEOLUS LATHYROIDES L. Leguminosae.

BN-4921-48. Puerto Rico.

315738. SCORPIURUS SULCATA L. Leguminosae.

Scorpiontail.

BN-16454-62. Ethiopia. Seed reproduced at National Plant Materials Center. Separated from Col. No. H-1945, J. R. Harlan, Oklahoma State University, Stillwater, Okla.

315739 to 315741. SETARIA SPHACELATA (Schum.) Stapf & Hubb. ex M. B. Moss. Gramineae. **Millet.**

315739. BN-6417-57. Beltsville Nursery selection from P.I. 165718, Kenya. Seed reproduced at National Plant Materials Center.

315740. BN-9339-62. South Africa. Seed reproduced at National Plant Materials Center. Contaminant out of P.I. 161636.

315741. BN-10830-62. Florida. Seed reproduced by Soil Conservation Service, Arcadia, Fla.

315742 to 315747. SORGHASTRUM NUTANS (L.) Nash ex Small Gramineae. **Yellow indiagrass.**

315742. BN-9054-61. Route 119, near Browns Chapel, Monongalia County, W. Va. Seed reproduced at National Plant Materials Center.

315743. BN-10804-61. Seed collected along Beaver Dam Road, Agricultural Research Center, Beltsville, Md. Native stand.

315744. BN-11509-61. Route 29, two miles north of forks of Cacapon River, Hampshire County, W. Va. Elevation 1,000 feet. Soil Letrecc; associated with broomsedge plants.

315745. BN-14670-65. Caswell County, N. C. Seed increased by Soil Conservation Service, Coffeeville, Miss.

315746. BN-14671-65. Seed reproduced at Plant Materials Center, Soil Conservation Service, Coffeeville, Miss.

315747. BN-14739-63. Jefferson County, Ill. Seed increased by Soil Conservation Service, Elsberry, Mo.

315748. TETRAGONLOBUS SILIQUOSUS (L.) Roth. Leguminosae.

BN-7913-60. Horto Botanica, Madrid, Spain. Seed reproduced at National Plant Materials Center.

315749 and 315750. VIGNA SINENSIS (Torner) Savi Leguminosae.

Cowpea.

315749. BN-5683-48. 'Black Tory pea'. Alabama. Seed reproduced by Soil Conservation Nursery, Thorsby, Ala.

315750. BN-6189-50. 'Combine pea'. Georgia. Seed reproduced at National Plant Materials Center.

315751. GOSSYPIUM RAIMONDII Ulbrich Malvaceae. **Cotton.**

From the United States. Seeds presented by P. C. Hutchison, Botanical Garden, Honolulu, Hawaii. Received July 6, 1966.

Honolulu Botanical Garden No. 64,1620. Originally from Peru, on Rio Maranon opposite town of Balsas, Celendin Province, Cajamarca Department. Elevation 800 meters.

315752 to 315755. SACCHARUM (hybrid) Gramineae.

From Peru. Cuttings presented by the Negociacion Azucarera, Laredo Ltda., Trujillo. Received June 29, 1966.

315752. La. 52-816.

315754. P. 20-005.

315753. P.12-625.

315755. P.O.J. 2967.

315756 to 315780.

From Nigeria. Plants collected by H. R. Chheda, University of Ibadan, Ibadan. Received June 30, 1966.

315756 to 315762. CYNODON PLECTOSTACHYUS (K. Schum.) Pilg. Grami-
neae. Stargrass.

315756. I-63-10. (G171). No. 2.

315757. I-63-17. K56301.

315758. I-63-18. K51425.

315759. I-63-19. K53672.

315760. I-63-24. K56424.

315761. I-63-28. K51405.

315762. Local (S. Nigeria).

315763. CYNODON sp.

I-63-1. (G 191). Muguga.

315764. CYNODON sp.

I-63-2. (G341). Lake Manyara.

315765. CYNODON sp.

IS-63-3. (G333). Kongwa.

315766. CYNODON sp.

I-63-4 (G193) Grassland No. 1.

315767. CYNODON sp.

I-63-5 (G330). Taramie.

315768. CYNODON sp.

I-63-6. (i).

315769. CYNODON sp.

I-63-6. South Africa.

315770. CYNODON sp.

I-63-7. (G185). Salisbury.

315771. CYNODON sp.

I-63-8. (G345). Lake Manyara.

315772. CYNODON sp.

I-63-9. (ii).

315773. CYNODON sp.

I-63-11. (G187). Grassland No. 4.

315774. CYNODON sp.

I-63-12. (G196).

315775. CYNODON sp.

I-63-13. (G175). Kotakota.

315756 to 315780—Continued315776. *CYNODON* sp.

I-63-14. (G177). Melsetter.

315777. *CYNODON* sp.

I-63-15. Grassland No. 3.

315778. *CYNODON* sp.

I-63-20. K54289.

315779. *CYNODON* sp.

I-63-21. (G183). Makutu.

315780. *CYNODON* sp.

I-63-25. (G189). Grassland No. 6.

315781 to 315834. CICER ARIETINUM L. Leguminosae. Chickpea.

From India. Seeds presented by Indian Agricultural Research Institute,
Division of Plant Introduction, New Delhi. Received July 5, 1966.

315781. 1540/XXIII	315808. L 144.
315782. 1575.	315809. L 146.
315783. BR 17.	315810. L 157.
315784. BR 65.	315811. L 167.
315785. C 57/1.	315812. L 168.
315786. C 104.	315813. L 169.
315787. C 235.	315814. Mandlay.
315788. C 706.	315815. N. 59.
315789. Cairo.	315816. N.P. 2.
315790. Ceylon-2.	315817. N.P. 6.
315791. E.C. 13071.	315818. N.P. 27.
315792. E.C. 26414.	315819. Parachinar.
315793. E.C. 26428.	315820. Pb. 2.
315794. E.C. 26429.	315821. Pb. 7.
315795. E.C. 26430.	315822. Pb. 11.
315796. E.C. 26435.	315823. Pb. 12.
315797. E.C. 26446.	315824. Pb. 15.
315798. Egypt 52.	315825. Rabat.
315799. F 32.	315826. S. 26.
315800. F 40.	315827. S. 33.
315801. F 61.	315828. T. 2.
315802. G-1-1.	315829. Ujjain 21.
315803. G. 3.	315830. V. 58.
315804. G. 24.	315831. V. 59.
315805. G. 130.	315832. V. 62.
315806. GG Abohar.	315833. V. 155.
315807. GG Bijapur.	315834. V. 167.

315835 to 315851. TRITICUM AESTIVUM L. Gramineae.

From the Netherlands. Seeds presented by A. C. Zeven, Institute of Plant
Breeding, Wageningen. Received July 6, 1966.

Spring wheat.

315835 to 315851—Continued

- | | |
|--------------------|--------------------|
| 315835. 'Carpo'. | 315838. 'Orca'. |
| 315836. 'Gaby'. | 315839. 'Peko'. |
| 315837. 'Opal'. | |
| Winter wheat. | |
| 315840. 'Apollo'. | 315846. 'Ibis'. |
| 315841. 'Cleo'. | 315847. 'Mado'. |
| 315842. 'Eno'. | 315848. 'Manella'. |
| 315843. 'Felix'. | 315849. 'Sylvia'. |
| 315844. 'Flevina'. | 315850. 'Tadorna'. |
| 315845. 'Hector'. | 315851. 'Wodan'. |

315852. HORDEUM VULGARE L. Gramineae.

From Japan. Seeds presented by Ohara Institute for Agricultural Biology, Okayama University, Kurashiko. Received July 6, 1966.

'Hagane-mugi'.

315853 to 315862.

From Great Britain. Seeds presented by University of Reading, Agricultural Botanic Garden, Cutbush Lane, Shinfield, Berkshire. Received July 6, 1966.

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|---|-----------------|
| 315853. AEGILOPS SPELTOIDES Tausch. Gramineae. | Goatgrass. |
| No. 58. | |
| 315854. AVENA NUDA L. Gramineae. | Naked oats. |
| No. 73. | |
| 315855 and 315856. AVENA SATIVA L. | Common oats. |
| 315855. No. 88. 'Maldwyn'. | |
| 315856. No. 90. 'Opus III'. | |
| 315857. HORDEUM DEFICIENS var. STEUDELII (Koern.) Harlan. Gramineae. | |
| No. 147. (Received as <i>Hordeum vulgare</i> var. <i>stuedelii</i>). | |
| 315858. HORDEUM JUBATUM L. | Foxtail barley. |
| No. 142. | |
| 315859. HORDEUM VULGARE var. AFGHANICUM Vav. ex Ivanova. | |
| No. 145. | |
| 315860. HORDEUM VULGARE var. NIGRICANS (Sér.) Koern. | |
| No. 146. | |
| 315861. HORDEUM VULGARE var. TRIFURCATUM (Schlecht.) Beaven. | |
| No. 148. | |
| 315862. TRITICUM AEGILOPOIDES Forsk. Gramineae. | |
| No. 174. | |

315863 to 315875.

From Czechoslovakia. Seeds presented by Botanická Zahrada University Komenskeho, Bratislava. Received July 6, 1966.

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| 315863. ELYMUS EXCELSUS Turcz. Gramineae. |
| No. 296. |

315863 to 315875—Continued

315864. *ELYMUS CANADENSIS* L.
No. 298.
315865. *HOSTA SIEBOLDIANA* var. *HYPOPHYLLA* (Miq.) Stearn **Liliaceae.**
Plantainlily.
No. 401.
315866. *MELICA CILIATA* L. **Gramineae.** **Melic.**
No. 544.
315867. *PENNISETUM ORIENTALE* L. C. Rich. **Gramineae.**
No. 597.
315868. *CENCHRUS CILIARIS* L.
No. 299.
315869. *ROSA ECAF* Aitch. **Rosaceae.** **Eca rose.**
No. 709.
315870. *ROSA HELENAE* Rehd. & Wils. **Helen rose.**
No. 711.
315871. *ROSA MICRANTHA* J. E. Smith. **Rose.**
No. 715.
315872. *ROSA ROXBURGHII* Tratt.
No. 717.
315873. *ROSA RUBRIFOLIA* Vill.
No. 718.
315874. *SANGUISORBA MINOR* Scop. **Rosaceae.** **Small burnet.**
No. 735.
315875. *STIPA TENACISSIMA* Jusl. **Gramineae.**
No. 799.
315876. *CYNODON DACTYLON* (L.) Pers. **Gramineae.** **Bermudagrass.**
From Great Britain. Stolons collected by G. W. Burton, Coastal Plain Experiment Station, Tifton, Ga. Received July 8, 1966.
Col. No. 1. From Sandbanks, Dorset, England near the sea. Shortgrass turf.
- 315877 and 315878. *PRUNUS MAHALEB* L. **Rosaceae.** **Mahaleb cherry.**
From the Republic of South Africa. Scions presented by L. du Preez Pneumoconiosis Research Unit, South African Council for Scientific and Industrial Research, Johannesburg. Received July 12, 1966.
315877. 'Russian'.
315878. 'South African'.
- 315879 to 315882. *PRUNUS PERSICA* (L.) Batsch **Rosaceae.** **Peach.**
From Brazil. Scions presented by the Institute Agronomico de Estado de Sao Paulo, Campinas. Received July 12, 1966.
315879. 'Alo-Docura'.
315880. 'Colibri'.
315881. 'Reliquia'.
315882. 'Talisma'.

315883. CASSIA ABBREVIATA Oliv. Leguminosae.

From the Republic of South Africa. Seeds presented by Plant Introduction Officer, Department of Agricultural Technical Services, Pretoria. Received July 19, 1966.

DL/154. From Masequas Poort, Zoutpansberg.

315884. ASTRAGALUS PECTINATUS (Hook.) G. Don. Leguminosae.

From Canada. Seeds presented by Plant Research Institute, Minister of Agriculture, Ottawa, Ontario. Received July 19, 1966.

No. 6880. Collected near Regina, Saskatchewan.

315885. SETARIA LONGISETA Beauv. Gramineae.

From Angola. Seeds presented by Medico Veterinario, Director da Estacao Zootecnica Central, Mariano Machado. Received July 19, 1966.

315886 to 315889.

From the United States. Plants selected at National Arboretum, Washington, D.C. Numbered July 18, 1966.

315886. HIBISCUS ROSA-SINENSIS L. Malvaceae. Chinese hibiscus.

'Vulcan'. 'Fire Chief' × 'Mason Red'. Upright shrub to 2 meters high; leaves leathery, glossy; flowers brilliant red upper surface, yellow below; does not fade except in extreme heat, persists more than 1 day. Sub-tropical.

315887. PYRACANTHA (hybrid). Rosaceae. Firethorn.

'Shawnee'. F₂ selection from 'San Jose' (*P. koidzumii* × *P. crenatoserrata*). Semi-evergreen, densely branched shrub to 3.5 meters high. Fruit abundant, glossy, clear yellow to light orange, persistent to 7 months. Resistant to fireblight, scab and birds. Hardiness zone 7b.

315888 and 315889. VIBURNUM (hybrid). Caprifoliaceae. Viburnum.

315888. 'Cayuga'. (*V. carlesii* × *V. x carlcephalum*). Deciduous compact shrub to 1.5 meters high; inflorescence abundant, buds pink opening to white in late April. Tolerant to bacterial leaf spot and powdery mildew. Hardiness zone 5b.

315889. 'Mohawk'. (*V. x burkwoodii* × *V. carlesii*). Deciduous compact shrub to two meters high. Leaves dark green, glossy, turn brilliant red in autumn. Abundant dark red buds open to white flowers with red blotched undersurface; strong spicy clove fragrance. Resistant to bacterial leaf spot and powdery mildew. Hardiness zone 5b.

315890 to 315901.

From Japan. Seeds presented by Department of Agriculture, Ehime University, Matuyama, Ehime Prefecture. Received July 21, 1966.

315890. EUONYMUS ALATUS (Thunb.) Rupr. Celastraceae. Winged euonymus.

Kannan Mountains.

315891. EUONYMUS JAPONICUS L. f.**315892. EUPATORIUM JAPONICUM** Thunb. Compositae.**315893. HIBISCUS HAMABO** Sieb. & Zucc. Malvaceae.

Kaseda, Kyusiu.

315894. ILEX PEDUNCULOSA Miquel Aquifoliaceae. Longstalk holly.

Kannan Mountains, Iyo Province.

315895. MAGNOLIA LILIFLORA var. *GRACILIS* (Salisb.) Rehder. Magnoliaceae.

315890 to 315901—Continued

315896. *PHOTINIA GLABRA* (Thunb.) Maxim. Rosaceae.

Kannan Mountains, Iyo Province.

315897. *PHOTINIA VILLOSA* var. *LAEVIS* (Thunb.) Dipp.

Kannan Mountains, Iyo Province.

315898. *POLYGONUM FILIFORME* Thunb. Polygonaceae.

315899. *SMILAX CHINA* L. Liliaceae.

Greenbrier.

Kannan Mountains, Iyo Province.

315900. *VIBURNUM DILATATUM* Thunb. Caprifoliaceae. **Linden viburnum.**

Kannan Mountains, Iyo Province.

315901. *ZANTHOXYLUM SCHINIFOLIUM* Sieb. & Zucc. Rutaceae.

Kannan Mountains, Iyo Province.

315902 to 315905. *CYNODON DACTYLON* (L.) Pers. Gramineae.
Bermudagrass.

From Germany. Stolons collected by Glenn Burton, Georgia Coastal Plain Experiment Station, Tifton, Ga. Received July 21, 1966.

315902. Col. No. 2. Growing among stone on Rhine River banks in Weiss near Cologne. Plants to 12 inches high with long leaves and purple heads. Good rhizomes.

315903. Col. No. 3. Berlin Tiergarten, Klopstock strasse in Kingergarten lawn. Vigorous, competing well with cool season grasses.

315904. Col. No. 4. Hundszahngas. Berlin-Tegel.

315905. Col. No. 5. Berlin-Steglitz Munsterdamm strasse. Tall, vigorous, with few rhizomes.

315906. *CAMELLIA* (hybrid) Theaceae.

From the United States. Plant growing at United States Plant Introduction Station, Glenn Dale, Md. Numbered July 21, 1966. 'Fragrant Pink'.

(*C. rusticana* (P.I. 228187) × *C. lutchuensis* (P.I. 226756)).

315907. *DIANTHUS CARYOPHYLLUS* L. Caryophyllaceae.
Clove pink carnation.

From Italy. Seeds presented by Stazione Sperimentale de Floricoltura "Orazio Raimondo", San Remo. Received July 21, 1966.

315908 to 316012.

From France. Seeds presented by Institut National de la Recherche Agronomique, Laboratoire D'Etudes des Varietes, Versailles. Received July 22, 1966.

315908 to 315929. *AVENA SATIVA* L. Gramineae. **Common oats.**

Spring type unless otherwise noted.

315908. 'Av. d'hiver du Prieure'. Frondation du Plm. Winter type.

315909. 'Arabelle'. Guilleman.

315910. 'Ariane'. Institut National de la Recherche Agronomique.

315911. 'Blanche de Wattines'. Desprez.

315912. 'Blancheneige'. Institut National de la Recherche Agronomique.
Winter type.

315913. 'Blanchette'. Tourneur.

315908 to 316012—Continued**315908 to 315929—Continued**

315914. 'Carvelle'. Pichot.
 315915. 'Condor'. Cooperative Inkoop Vereeniging.
 315916. 'Flamande'. Desprez.
 315917. 'Gelinotte'. Tourneur.
 315918. 'Grise d'hiver'. Pop De Pays.
 315919. 'Mansholt-Major'. Mansholt.
 315920. 'Nappe d'Argent'. Tourneur.
 315921. 'Noire de Moyencourt'. Claude Benoist.
 315922. 'Nordine'. Sogroup.
 315923. 'Nuprime'. Institut National de la Recherche Agronomique.
 315924. 'Phoenix'. Heidenreich.
 315925. 'Premices'. Sogroup.
 315926. 'Soleil II'. Institute de Svalof.
 315927. 'Starblonde'. Blondeau.
 315928. 'Vega'. Institut National de la Recherche Agronomique.
 315929. 'Vigor'. Institute Gembloux.

315930 to 315946. HORDEUM DISTICHON L. Gramineae.

Spring type unless otherwise noted.

315930. 'Alouette'. Heine-Desprez.
 315931. 'Amsel'. Heine-Desprez.
 315932. 'Ariel'. Institut National de la Recherche Agronomique.
 315933. 'Astrid'. Lepeuple.
 315934. 'Beka'. Secobra.
 315935. 'Ceres'. Institut National de la Recherche Agronomique.
 315936. 'Certa'. Institut National de la Recherche Agronomique.
 315937. 'Delisa'. Centraal-Bureau.
 315938. 'Fida'. Institut National de la Recherche Agronomique.
 315939. 'Mamie'. Lepeuple.
 315940. 'Mesange'. Heine-Desprez.
 315941. 'Mosane'. Institute Gembloux.
 315942. 'Noelle'. Pichot. Winter type.
 315943. 'Rika'. Weibull.
 315944. 'Trait d'Union'. Firlbeck-Secobra.
 315945. 'Volla'. Breun.
 315946. 'Wisa'. Breun.

315947 to 315956. HORDEUM VULGARE L.

Spring type.

315947. 'Ager'. Institut National de la Recherche Agronomique.
 315948. 'Ares'. Institut National de la Recherche Agronomique.
 315949. 'Atlas'. Breustedt.
 315950. 'France-Dea'. Engelens-Secobra.

315908 to 316012—Continued**315947 to 315956—Continued**

315951. 'Hatif de Grignon'. Ferme Extention de Grignon.
 315952. 'Maguelone'. Institut National de la Recherche Agronomique.
 315953. 'Manon'. Institute Gembloux.
 315954. 'Monlon'. Toulouse.
 315955. 'Nymphe'. Hauters-Vilmorin.
 315956. 'Precoce-Lepeuple'. Lepeuple.

315957 to 315962. SECALE CEREALE L. Gramineae.**Rye.**

Winter type unless otherwise noted.

315957. 'Everest'. Tetraploid. Lepeuple.
 315958. 'Petkus'. Diploid. Von-Lochnow.
 315959. 'Petkus-Kuzstroh'. Diploid. Von-Lochnow.
 315960. 'Somro-Petkus'. Diploid. Von-Lochnow. Spring type.
 315961. 'Tetraseigle-Petkus'. Tetraploid. Von-Lochnow.
 315962. 'Zelder'. Diploid. Cooperative Inkoop Vereeniging.

315963 to 316011. TRITICUM AESTIVUM L. Gramineae.

Winter type unless otherwise noted.

315963. 'Aa—Blondeau'. Blondeau.
 315964. 'Abel'. Lafite.
 315965. 'Aisne'. Sassem.
 315966. 'Ali'. Bataille.
 315967. 'Aronde'. Heine-Desprez. Spring type.
 315968. 'Arromanches'. Lepeuple.
 315969. 'Artois-Desprez'. Desprez.
 315970. 'Aster'. Lepeuple. Spring type.
 315971. 'Athos'. Bataille.
 315972. 'Aube-Desprez'. Desprez.
 315973. 'Beaufort'. Lepeuple.
 315974. 'Capitole-Vilmorin'. Vilmorin-Andrieux.
 315975. 'Cerealor-Laurent'. Laurent.
 315976. 'Chambord'. Sogroup.
 315977. 'Cledor'. Blondeau.
 315978. 'Cresus-Tourneur'. Tourneur.
 315979. 'Docteur Mazet'. Mandoul. Spring type.
 315980. 'Elite-Lepeuple'. Lepeuple.
 315981. 'Eureka-Tourneur'. Tourneur.
 315982. 'Extra-Legland'. Legland.
 315983. 'Floress-Cambier'. Cambier.
 315984. 'Francest-Desprez'. Desprez.
 315985. 'Froidure-Cambier'. Cambier.
 315986. 'Gai-printemps'. Tourneur. Spring type.
 315987. 'Heurtebise'. Blondeau.

315908 to 316012—Continued**315963 to 316011—Continued**

315988. 'Hivernal'. Belloy.
 315989. 'Horizon'. Pichot. Spring type.
 315990. 'Inversable-Bordeaux'. Tourneur. Unknown type.
 315991. 'Joel'. Blondeau.
 315992. 'Languedoc'. Institut National de la Recherche Agronomique.
 315993. 'Magali-Blondeau'. Blondeau.
 315994. 'Magdalena'. Institut National de la Recherche Agronomique.
 315995. 'Marne-Desprez'. Desprez.
 315996. 'Milord-Benoist'. Claude Benoist.
 315997. 'Moeres'. Blondeau.
 315998. 'Moisson-Vilmorin'. Vilmorin-Andrieux.
 315999. 'Noralter'. Dubus-Noureux.
 316000. 'Ouest-Desprez'. Desprez.
 316001. 'Palmaress-Cambier'. Cambier.
 316002. 'Primepi'. Dromigny & Hamel.
 316003. 'Rallye'. Sogroup.
 316004. 'Remois'. Lafite.
 316005. 'Rex-Vilmorin'. Vilmorin-Andrieux. Spring type.
 316006. 'Rial'. Lafite.
 316007. 'Somme-Desprez'. Desprez.
 316008. 'Splendeur-Vilmorin'. Vilmorin-Andrieux.
 316009. 'Thermidor-Vilmorin'. Vilmorin-Andrieux.
 316010. 'Vaillant'. Sogroup. Unknown type.
 316011. 'Vilmorin 53'. Vilmorin-Andrieux.

316012. TRITICUM DURUM Desf.**Durum wheat.**

'Lez'. Institut National de la Recherche Agronomique. Unknown typeff

316013 to 316032. PHASEOLUS VULGARIS L. Leguminosae.

From Peru. Seeds presented by Oswaldo Voysest-Voysest, Estacion Experimental Agricola La Molina, Lima through E. M. Meader, University of New Hampshire, Durham. N.H. Numbered July 25, 1966.

Selections grown by Indians at high altitudes. Plants tall climbers; seeds pop when roasted.

316013. Col. No. G-16905. Seeds large, flat, oval, grey, spotted purple, dull.
 316014. Col. No. G-16906. Seeds large, flat, oval, grey, spotted brown, dull; white line along raphe.
 316015. Col. No. G-16907. Seeds large, plump, oval, white, spotted blue, glossy.
 316016. Col. No. G-16908. Seeds medium, plump, oval, purplish brown, glossy.
 316017. Col. No. G-16909. Seeds medium, globe, grey, spotted dark brown, dull.
 316018. Col. No. G-16910. Seeds medium small, plump, oval, dark brown, glossy.

316013 to 316032—Continued

316019. Col. No. G-16911. Seeds large, flat, rectangular, light brown, flecked grey, dull.
316020. Col. No. G-16912. Seeds medium, flat, oval, brown striped and spotted dark brown, dull.
316021. Col. No. G-16913. Seeds large, flat, oval, dark purple, dull; white round spot at hilum.
316022. Col. No. G-16914. Seeds small, globose, dark purple, glossy.
316023. Col. No. G-16915. Seeds small, globose, light tan, glossy.
316024. Col. No. G-16916. Seeds medium, flat, oval, dark purple, glossy; tan band at raphe.
316025. Col. No. G-16917. Seeds medium, globose, grey striped and spotted brown, dull.
316026. Col. No. G-16918. Seeds medium, plump, oval, reddish tan, glossy.
316027. Col. No. G-16919. Seeds medium small, globose, light brown, glossy; white round dot at hilum.
316028. Col. No. G-16920. Seeds medium large, short, plump, oval, brown, dull; white round dot at hilum.
316029. Col. No. G-16921. Seeds small, globose, reddish brown, glossy; white dot at hilum.
316030. Col. No. G-16922. Seeds medium, globose, grey, spotted black, almost two toned, dull; round white dot at hilum.
316031. Col. No. G-16923. Seeds medium, globose, grey, spotted black or purple, tan or light brown on raphe near white dot hilum, dull.
316032. Col. No. G-16924. Seeds medium, globose, white, spotted brown, brown ring around hilum, brown U half circling hilum at microphyllar end.

316033. PHASEOLUS VULGARIS L. Leguminosae.

From the Netherlands. Seeds presented by Institute of Plant Breeding, Wageningen. Received July 27, 1966.

'Chocolade Bruine'.

316034 to 316042.

From Brazil. Seeds presented by Estudo Da Pastagem Nativa No Rio Grande Do Sul, Porto Alegre. Public Law 480, Project S3-CR-11. Received July 27, 1966.

316034. *CHLORIS POLYDACTYLA* (L.) Swartz Gramineae.

No. 816. Uruguniana.

316035. *DESMODIUM BARBATUM* (L.) Benth. Leguminosae.

CC/1965.

316036 and 316037. *DIGITARIA SWALLENIANA* Henrard Gramineae.

316036. No. 801. Uruguniana.

316037. No. 952. Sao Gabriel.

316038. *LOTNONIS BAINESII* Baker Leguminosae.

CC/1965.

316039. *RHYNCHOSIA PHASEOLOIDES* (Sw.) DC. Leguminosae.

CC/1965.

316040. *STYLOSANTHES GRACILIS* HBK. Leguminosae.

CC/1965.

316034 to 316042—Continued316041. *TERAMNUS UNCINATUS* (L.) Swartz Leguminosae.

CC/1965.

316042. *TERAMNUS VOLUBILIS* Sw.

C/1965.

316043 to 316062.

From Japan. Seeds collected by Frank Doleshy, Seattle, Washington. Kusatsu, Gumma Prefecture, Central Honshu. Elevation 1,240 meters. Received July 27, 1966.

316043. *ADENOPHORA TRIPHYLLA* A. DC. Campanulaceae.316044. *ANAPHALIS MARGARITACEAE* Benth. & Hook. f. Compositae.

Pearl everlasting.

316045. *ARUNCUS DIOICUS* (Walt.) Fern. Rosaceae.316046. *BLECHNUM NIPONICUM* (Kunze) Makino. Polypodiaceae.316047. *CLETHRA BARBINERVIS* Sieb. & Zucc. Clethraceae. Tree clethra.316048. *EMPETRUM NIGRUM* L. Empetraceae. Crowberry.316049. *EUPATORIUM CHINENSE* var. *SACHALINENSE* (F. Schmidt) Kitam. Compositae.316050. *GENTIANA TRIFLORA* Pall. Gentianaceae.316051. *HYDRANGEA PANICULATA* Siebold Saxifragaceae.

Panicle hydrangea.

316052. *HYPERICUM ERECTUM* Thunb. Guttiferae. St.-Johns-wort.316053. *IRIS ENSATA* var. *SPONTANEA* (Makino) Nakai. Iridaceae.316054. *LACTUCA RADDEANA* Maxim. Compositae. Lettuce.316055. *LESPEDEZA BICOLOR* var. *JAPONICA* Nakai Leguminosae.

Bushclover.

316056. *LYCOPUS UNIFLORUS* Michx. Labiatae.316057. *LYSIMACHIA CLETHROIDES* Duby ex DC. Primulaceae.316058. *METANARTHECIUM LUTEOVIRIDE* Maxim. Liliaceae.316059. *RHUS TRICHOCARPA* Miquel Anacardiaceae. Sumac.316060. *SANGUISORBA OFFICINALIS* L. Rosaceae.316061. *SOLIDAGO VIRGAUREA* L. Compositae. European goldenrod.316062. *TRIPTERYGIUM REGELII* Sprague & Takeda Celastraceae.**316063 to 316077. ZEA MAYS L. Gramineae. Corn.**

From Colombia. Seeds presented by the Rockefeller Foundation. Centro Nacional de Investigaciones Agropecuario, Medellin. Received July 29, 1966.

316063. 'Diacol H.205'. P63B. 5513 x 5514.

316064. Line 38. P62B. No. 5923.

316065. Line 36. P62A. 6414-Aislamiento.

316066. Line 33. P61B. No. 6067.

316067. Line 22. P61B. No. 6066.

316068. 'Diacol H.253'. P63B. 5515 x 5516.

316069. Line 28. P62B. No. 5924.

316070. Line 25. P62A. 6412 Aislamiento.

316071. Line 26. P63B. No. 5389.

316063 to 316077—Continued

316072. Line 27. P61B. No. 6068.
 316073. 'I.C.A. H.207'. P65A. 5901 x 5902.
 316074. Line 38. P62B. No. 5923.
 316075. Line 36. P62A. 6414 Aislamiento.
 316076. Line 29. P65A. No. 5605.
 316077. Line 210. P65A. No. 5606.

316078. TAGETES ERECTA L. Compositae. Aztec marigold.

From Great Britain. Seeds purchased from Thompson & Morgan, Ipswich.
 Received July 29, 1966.

316079. TAGETES SUBULATA Cerv. Compositae.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, Crops
 Research Division, Plant Industry Station, Beltsville, Md. Received July
 29, 1966.

Col. No. 18341. Twenty-one miles southeast of Tepic, Nayarit.
 Elevation 3,700 feet. Oak woodland. Annual, 25 to 40 cm. Flowers yellow,
 varying from green glabrous to white flaccose.

316080 to 316096. TRITICUM DURUM Desf. Gramineae. Durum wheat.

From Australia. Seeds presented by New South Wales Department of
 Agriculture, Agricultural Research Station, Tanworth, New South Wales.
 Received August 1, 1966.

316080. No. 2012 M65.
 316081. No. 2012 M65. Dural 3 Dwarf.
 316082. No. 2013 M65. Dural 3 x Dwarf.
 316083. No. 2016 M65. Dural 3 Dwarf.
 316084. No. 2017 M65. Dural 3 Dwarf.
 316085. No. 2026 M65. Dural 3 Dwarf.
 316086. No. 2033 M65. Dural 3 Dwarf.
 316087. No. 2220 M65. Dural 3 Dwarf.
 316088. No. 2408 M65. Dural 3.
 316089. No. 2414 M65. Dural 3 Dwarf.
 316090. No. 2430 M65. Dural 3 x Dwarf.
 316091. No. 2432 M65. Dural 3 Dwarf.
 316092. No. 2502 M65. Dural 3 Dwarf.
 316093. No. 2504 M65. Dural 3 x Dwarf.
 316094. No. 2512 M65. Dural 3 Dwarf.
 316095. No. 17053 M65. Dural 2 x Dwarf.
 316096. Dural.

316097 to 316114.

From China. Seeds presented by Taiwan Seed Service, Shin-Shieh, Taichung
 Prefecture, Taiwan Province. Received Aug. 2, 1966.

316097. BRASSICA sp. Cruciferae.
 No. 4001.

316097 to 316114—Continued

316098. BRASSICA sp.

No. 4002

316099. BRASSICA sp.

No. 4005.

316100. BRASSICA sp.

No. 4008.

316101. BRASSICA sp.

No. 4009.

316102. BRASSICA sp.

No. 4010.

316103. BRASSICA sp.

No. 4012.

316104. BRASSICA sp.

No. 4013.

316105. BRASSICA sp.

No. 4014.

316106. BRASSICA sp.

No. 4015.

316107. BRASSICA sp.

No. 4020.

316108. BRASSICA sp.

No. 4030.

316109. BRASSICA sp.

No. 4031.

316110. BRASSICA sp.

No. 4034.

316111. BRASSICA sp.

No. 4035.

316112. BRASSICA sp.

No. 4036.

316113. BRASSICA sp.

No. 4044.

316114. BRASSICA sp.

No. 4086.

316115. PRUNUS DOMESTICA L. Rosaceae. **Common plum.**

From France. Scions presented by Societe Cooperative de Recherches et d'Experimentations Agricoles, Perpignan. Received Aug. 3, 1966.

'Prune d'ente P.707'.

316116 to 316361.

From Australia. Seeds presented by Plant Introduction Section, Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Countries of original collection indicated where known. Numbered Aug. 23, 1966.

316116 to 316361—Continued

316116. *ACACIA CYANOPHYLLA* Lindl. Leguminosae. **Blueleaf acacia.**
W. 851. Western Australia.
316117. *ACACIA LONGIFOLIA* (Andrews) Willd. **Sydney wattle.**
N. 786. New South Wales.
- 316118 and 316119. *AESCHYNOMENE INDICA* L. Leguminosae.
316118. C.P.I. 15827.
316119. C.P.I. 18648.
316120. *AGROPYRON CRISTATUM* (L.) Gaertn. Gramineae.
Crested wheatgrass.
C.P.I. 28639. Soviet Union.
316121. *AGROPYRON DESERTORUM* (Fisch. ex Link) Schult.
Standard wheatgrass.
C.P.I. 24649. Sweden.
316122. *AGROPYRON INTERMEDIUM* (Host) Beauv.
Intermediate wheatgrass.
C.P.I. 28640. Soviet Union.
316123. *AGROPYRON PYCNANTHUM* (Godr.) Gren. & Godr.
C.P.I. 27815. France.
316124. *ALYSICARPUS OVALIFOLIUS* (Schumak.) J. Leonard Leguminosae.
Q. 621.
316125. *ALYSICARPUS VAGINALIS* (L.) DC. **Alyceclover.**
C. 945.
- 316126 to 316158. *ARACHIS HYPOGAEA* L. Leguminosae. **Peanut.**
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| 316126. CQ. 570. | 316143. C.P.I. 30662. |
| 316127. CQ. 571. | 316144. C.P.I. 30663. |
| 316128. C.P.I. 13970. | 316145. C.P.I. 30678. |
| 316129. C.P.I. 27420. | 316146. C.P.I. 31107. |
| 316130. C.P.I. 29163. | 316147. C.P.I. 31110. |
| 316131. C.P.I. 29166. | 316148. C.P.I. 31158. |
| 316132. C.P.I. 29177. | 316149. C.P.I. 31363. |
| 316133. C.P.I. 29178. | 316150. C.P.I. 31364. |
| 316134. C.P.I. 29386. | 316151. C.P.I. 31365. |
| 316135. C.P.I. 29886. | 316152. C.P.I. 31366. |
| 316136. C.P.I. 29887. | 316153. C.P.I. 31367. |
| 316137. C.P.I. 29893. | 316154. C.P.I. 31369. |
| 316138. C.P.I. 29895. | 316155. C.P.I. 31371. |
| 316139. C.P.I. 29897. | 316156. C.P.I. 31372. |
| 316140. C.P.I. 30089. | 316157. C.P.I. 31373. |
| 316141. C.P.I. 30660. | 316158. C.P.I. 31375. |
| 316142. C.P.I. 30661. | 'Krasnodarski'. |
- 316159 to 316161. *ARRHENATHERUM ELATIUS* (L.) Preal Gramineae.
Tall oatgrass.
316159. C.P.I. 26031. Sweden.

316116 to 316361—Continued**316159 to 316161—Continued**

316160. C.P.I. 26295. Spain.

316161. C.P.I. 35968.

316162. *ASTRAGALUS GALEGIFORMIS* L. Leguminosae.

C.P.I. 28146. Soviet Union.

316163. *ATRIPLEX NUMMULARIS* Lindl. Chenopodiaceae. **Saltbush.**
N. 555.316164 and 316165. *ATRIPLEX SEMIBACCATA* R. Br. **Australian saltbush.**

316164. C.P.I. 13271.

316165. N. 673.

316166. *BRACHIARIA BRIZANTHA* (Hochst.) Stapf Gramineae.
Palisade signalgrass.

C.P.I. 15890.

316167. *BRACHIARIA RUZIZIENSIS* Germain & Eyrard.

C.P.I. 18116.

316168. *BRACHIARIA SOLUTA* Stapf

C.P.I. 17091.

316169. *BRACHYPODIUM PINNATUM* (L.) Beauv. **Japanese falsebrome.**

C.P.I. 31655.

316170. *BRACHYPODIUM RUPESTRE* (Host) Roem. & Schult.

C.P.I. 24096. Soviet Union.

316171 and 316172. *BROMUS INERMIS* Leyss. Gramineae.
Smooth bromegrass.

316171. C.P.I. 9917. Soviet Union.

316172. C.P.I. 24996. Soviet Union.

316173 and 316174. *BROMUS MARGINATUS* Nees **Mountain bromegrass.**

316173. C.P.I. 3455. Sweden.

316174. C.P.I. 6070. Lithuania.

316175 to 316177. *BROMUS UNIOLOIDES* H. B. K.

316175. C.P.I. 27898. South Africa.

316176. C.P.I. 29536. Argentina.

316177. C.P.I. 29537. Argentina.

316178. *BROMUS URUGUAYENSIS* Arech.

C.P.I. 25748. South America.

316179. *CALAMAGROSTIS CANESCENS* (Weber) Roth Gramineae.

C.P.I. 22220. Poland.

316180 and 316181. *CALAMAGROSTIS EPIGEIOS* (L.) Roth

316180. C.P.I. 22222. Poland.

316181. C.P.I. 23619. Germany.

316182 and 316183. *CALAMAGROSTIS PSEUDOPHRAGMITES* (Hall f.) Koel.

316182. C.P.I. 22185. Sweden.

316183. C.P.I. 22301. Soviet Union.

316116 to 316361—Continued

316184. CALAMAGROSTIS VARIA (Schrad.) Host
C.P.I. 22186. Sweden.
316185. CANAVALIA ENSIFORMIS (L.) DC. Leguminosae. **Jackbean.**
C.P.I. 5769. Trinidad.
316186. CASSIA MIMOSOIDES L. Leguminosae.
Q. 626.
316187. CASSIA OCCIDENTALIS L.
C. 870.
316188. CASUARINA CUNNINGHAMIANA Miquel Casuarinaceae. **Cunningham beefwood.**
C. 1186. Near Murrumbidgee River, A.C.T.
316189. CENCHRUS CILIARIS L. Gramineae. **Buffelgrass.**
C.P.I. 36125.
- 316190 to 316198. CENTROSEMA PUBESCENS Benth. Leguminosae.
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| 316190. C.P.I. CQ. 730. | 316195. C.P.I. 28109. |
| 316191. C.P.I. 17911. | 316196. C.P.I. 28323. |
| 316192. C.P.I. 23605. | 316197. C.P.I. 29187. |
| 316193. C.P.I. 25355. | 316198. C.P.I. 29739. |
| 316194. C.P.I. 26258. | |
316199. CHLORIS CARIBAEA Spreng. Gramineae.
C.P.I. 21002.
316200. CHLORIS CASTILLONIANA Lillo & Parodi
C.P.I. 22795.
- 316201 to 316203. CHLORIS GAYANA Kunth **Rhodesgrass.**
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| 316201. C.P.I. 35690. 'Chepararia'. |
| 316202. C.P.I. 35691. 'Masaba'. |
| 316203. C.P.I. 35694. 'Nzoia'. |
- 316204 to 316206. CLITORIA TERNATEA L. Leguminosae. **Asian pigeonwings.**
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| 316204. C.P.I. 16170. |
| 316205. C.P.I. 17228. |
| 316206. C.P.I. 20468. |
316207. CRAMBE ABYSSINICA Hochst. ex R. E. Fries Cruciferae.
C.P.I. 35799.
316208. CROTALARIA JUNCEA L. Leguminosae. **Sunn-hemp.**
C.P.I. 27070. Ceylon.
316209. DACTYLIS ASCHERSONIANA Graebn. Gramineae.
C.P.I. 31589. Bulgaria.
316210. DESMODIUM ANGUSTIFOLIUM (HBK.) DC. Leguminosae.
C.P.I. 7856.
- 316211 and 316212. DESMODIUM DISTORTUM (Aubl.) Macbride
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| 316211. C.P.I. 18297. |
| 316212. C.P.I. 15288. |

316116 to 316361—Continued

316213. *DESMODIUM INTORTUM* (Mill.) Urb.
CQ. 704. 'Greenleaf'.
316214. *DESMODIUM LANCEOLATUM* Schindl. ex Gagnep.
C.P.I. 21044.
316215. *DESMODIUM PURPUREUM* Fawcett & Rendle
C.P.I. 29743.
- 316216 to 316229. *DESMODIUM SANDWICENSE* E. Mey.
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| 316216. C.P.I. 11740. | 316223. C.P.I. 18227. |
| 316217. C.P.I. 11741. | 316224. C.P.I. 18230. |
| 316218. C.P.I. 18013. | 316225. C.P.I. 18231. |
| 316219. C.P.I. 18160. | 316226. C.P.I. 18233. |
| 316220. C.P.I. 18160/1. | 316227. C.P.I. 18234. |
| 316221. C.P.I. 18162. | 316228. C.P.I. 18235. |
| 316222. C.P.I. 18163. | 316229. C.P.I. 28324. |
316230. *DICHANTHIUM ARISTATUM* (Poir.) C. E. Hubb. Gramineae.
Angletongrass.
C.P.I. 16773. South Africa.
316231. *DOLICHOS BAUMANNII* Harms Leguminosae.
C.P.I. 24972.
316232. *DOLICHOS LABLAB* L. Hyacinth-bean.
Q. 684.
316233. *ELYMUS ARENARIUS* L. Gramineae. European dunegrass.
C.P.I. 25968. Soviet Union.
316234. *ELYMUS PABOANUS* Claus
C.P.I. 28131. Soviet Union.
316235. *ELYMUS* sp.
C.P.I. 25753. South America.
- 316236 to 316240. *EHRHARTA CALYCINA* J. E. Smith Gramineae.
Perennial veldtgrass.
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| 316236. C.P.I. 7763. South Africa. |
| 316237. C.P.I. 15994. South Africa. |
| 316238. C.P.I. 17897. South Africa. |
| 316239. C.P.I. 17898. South Africa. |
| 316240. C.P.I. 29297. South Africa. |
316241. *ERIOCHLOA PROCERA* (Retz.) Hubbard Gramineae. Cupgrass.
C.P.I. 21036.
316242. *EULALIA MACKINLAYI* (F. Muell.) Kuntze Gramineae.
C. 963.
- 316243 to 316246. *FESTUCA ARUNDINACEA* Schreb. Gramineae. Tall fescue.
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| 316243. C.P.I. 15301. Israel. |
| 316244. C.P.I. 22179. Sweden. |

316116 to 316361—Continued

316243 to 316246—Continued

316245. C.P.I. 22093. Morocco.
316246. C.P.I. 22094. Morocco.
316247. *FESTUCA GIGANTEA* (L.) Vill. **Great fescue.**
C.P.I. 27531. Germany.
316248. *FESTUCA MONTANA* Bieb.
C.P.I. 28134. Soviet Union.
316249. *FESTUCA OVINA* L. **Sheep fescue.**
C.P.I. 28600. Soviet Union.
316250. *FESTUCA PRATENSIS* Huds.
C.P.I. 27138. Italy.
316251. *FESTUCA RUPICAPRINA* (Hack.) Beck
C.P.I. 27478. Sweden.
316252. *FESTUCA VARIA* Haenke **Fescue.**
C.P.I. 2389. Soviet Union.
- 316253 and 316254. *GLYCINE JAVANICA* L. Leguminosae.
316253. Q. 678. 'Tinaroo'. Yates & Company, Brisbane.
316254. Q. 679. 'Clarence'. Yates & Company, Brisbane.
- 316255 and 316256. *HORDEUM BULBOSUM* L. Gramineae. **Bulbous barley.**
316255. C.P.I. 28357. Israel.
316256. C.P.I. 28358. Israel.
316257. *INDIGOFERA ECHINATA* Willd. Leguminosae.
C.P.I. 17183. Brisbane.
- 316258 to 316260. *INDIGOFERA HIRSUTA* L. **Hairy indigo.**
316258. C.P.I. 29626. Thailand.
316259. C.P.I. 29627. Thailand.
316260. C.P.I. 29748. India.
316261. *INDIGOFERA SUFFRUTICOSA* Mill. **Anil indigo.**
C.P.I. 29746.
316262. *KENNEDYA PROSTRATA* R. Br. ex Ait. Leguminosae.
W. 919. Western Australia.
- 316263 to 316265. *LEUCAENA LEUCOCEPHALA* (Lam.) de Wit Leguminosae. **Leadtree.**
316263. C.P.I. 18614. Peru.
316264. C.P.I. 35541.
316265. C.P.I. 36130.
- 316266 to 316269. *LOTUS CORNICULATUS* L. Leguminosae. **Birdsfoot trefoil.**
316266. C.P.I. 27752. Brazil.
316267. C.P.I. 27968. Brazil.
316268. C.P.I. 27970. Uruguay. Originally from France.
316269. C.P.I. 28053. Hungary.

316116 to 316361—Continued

- 316270.** LOTUS TENUIS Kit.
C.P.I. 28866. France. Originally from the United States.
- 316271.** LOTUS CORNICULATUS ssp. PRESII (Ten.) Asch. & Graebn.
C.P.I. 28870. France.
- 316272.** LOTUS FRONDOSUS Freyn.
C.P.I. 27575. Soviet Union.
- 316273 and 316274.** LOTUS PEDUNCULATUS Cav. **Big trefoil.**
- 316273.** C.P.I. 27784. Portugal.
- 316274.** C.P.I. 28888. New Zealand.
- 316275.** LOTUS TENUIS Waldst. & Kit.
C.P.I. 27227. Czechoslovakia.
- 316276 to 316279.** LUPINUS ALBUS L. Leguminosae. **White lupine.**
- 316276.** C.P.I. 10349. Bulgaria.
- 316277.** C.P.I. 16557. Portugal.
- 316278.** C.P.I. 16564. Portugal.
- 316279.** C.P.I. 16576. Portugal.
- 316280 to 316282.** LUPINUS ANGUSTIFOLIUS L. **Bitter blue lupine.**
- 316280.** C.P.I. 11480. Portugal.
- 316281.** C.P.I. 15805. Morocco.
- 316282.** C.P.I. 16582. Portugal.
- 316283 to 316288.** LUPINUS LUTEUS L. **European yellow lupine.**
- 316283.** C.P.I. 11052. Germany.
- 316284.** C.P.I. 14430. Portugal.
- 316285.** C.P.I. 14978. Israel. Originally from South Africa.
- 316286.** C.P.I. 16360. South Africa.
- 316287.** C.P.I. 16592. Portugal.
- 316288.** C.P.I. 28056. Hungary.
- 316289 to 316290.** LUPINUS MUTABILIS Sweet. **South American lupine.**
- 316289.** C.P.I. 16596. Portugal.
- 316290.** C.P.I. 17720. Argentina.
- 316291 and 316292.** MEDICAGO LITTORALIS Rhode ex Loisel. Leguminosae.
- 316291.** V. 231. Victoria, Australia.
- 316292.** C.P.I. 19888. Algeria.
- 316293.** MISCANTHUS SINENSIS Anderss. Gramineae.
C.P.I. 22646. Japan.
- 316294.** ONOBRYCHIS ANTASIATICA Khin. Leguminosae.
C.P.I. 27456. China.
- 316295.** ONOBRYCHIS PETRAEA Desv.
C.P.I. 27337. Germany.
- 316296.** ONOBRYCHIS VICHIFOLIA Scop. **Sainfoin.**
C.P.I. 31422. Soviet Union.

316116 to 316361—Continued

316297. PANICUM COLORATUM L. Gramineae.
C.P.I. 7940.
- 316298 to 316305. PANICUM MAXIMUM Jacq. **Guineagrass.**
316298. C.P.I. 8390. 316303. C.P.I. 27630.
316299. C.P.I. 15895. South America.
316300. C.P.I. 16003. 316304. C.P.I. 30825.
316301. C.P.I. 16721. Brazil.
316302. C.P.I. 21359. 316305. C.P.I. 36468.
316306. PASPALUM DILATATUM Poir. Gramineae. **Dallisgrass.**
C.P.I. 11824. Brazil.
316307. PASPALUM PAUCICILIATUM (Parodi) Herter
C.P.I. 21375. Central America.
- 316308 to 316311. PASPALUM PLICATULUM Michx. **Brownseed paspalum.**
316308. C.P.I. 2741. Guatemala.
316309. C.P.I. 21377. Puerto Rico.
316310. C.P.I. 21381. Central America.
316311. C.P.I. 23729. West Indies.
316312. PASPALUM PLICATULUM var. PLICATULUM
C.P.I. 7478. United States.
316313. PASPALUM QUADRIFARIUM Lam.
C.P.I. 27689. Uruguay.
316314. PASPALUM SCROBICULATUM L.
C.P.I. 21038. Vietnam.
- 316315 to 316317. PASPALUM URVILLEI Steud. **Vaseygrass.**
316315. C.P.I. 11828. Brazil.
316316. C.P.I. 11868. Paraguay.
316317. C.P.I. 27692. Brazil.
316318. PASPALUM VIRGATUM L.
C.P.I. 16064. Congo.
- 316319 to 316320. PHALARIS AQUATICA L. Gramineae. **Large canarygrass.**
316319. C.P.I. 21868. South Africa.
316320. C.P.I. 28009. Argentina.
316321. PHALARIS (hybrid)
C.P.I. 28103. Wales.
- 316322 to 316326. PHALARIS AQUATICA L. **Large canarygrass.**
316322. C.P.I. 23021. Portugal.
316323. C.P.I. 23027. Portugal.
316324. C.P.I. 28560. Italy.
316325. C.P.I. 29038. Iraq.
316326. C.P.I. 29039. Iraq.

316116 to 316361—Continued

- 316327 and 316328. PHALARIS AQUATICA × P. ARUNDINACEAE
 316327. C.P.I. 28007. Argentina.
 316328. C.P.I. 28304. Uruguay.
- 316329 to 316331. PHALARIS ARUNDINACEA L. Reed canarygrass.
 316329. C.P.I. 7594.
 316330. C.P.I. 10446. Portugal.
 316331. C.P.I. 25004. Soviet Union.
- 316332 to 316334. PHALARIS COERULESCENS Desf.
 316332. C.P.I. 19184. Portugal.
 316333. C.P.I. 26077. Sweden. Originally from Turkey.
 316334. C.P.I. 26078. Sweden. Originally from Turkey.
- 316335 to 316337. PHALARIS TRUNCATA Guss.
 316335. C.P.I. 19247. Algeria.
 316336. C.P.I. 19251. Algeria.
 316337. C.P.I. 19263. Algeria.
316338. PHALARIS TUBEROSA var. STENOPTERA (Hack.) Hitchc. Harding grass.
 C.P.I. 27265. Spain.
316339. PHASEOLUS ATROPURPUREUS DC. Leguminosae.
 C.P.I. 18556. Argentina.
316340. PUCCINELLIA CAPILLARIS (Liljebl.) Jansen. Gramineae.
 C.P.I. 15034. Turkey.
316341. SETARIA AUSTRALIENSIS (Scribn. & Merr.) Vickery Gramineae.
 Q. 277. Queensland.
316342. SETARIA QUEENSLANDICA Domin
 C. 919. Northern Territory.
316343. SETARIA SPHACELATA (Schum.) Stapf & Hubb. ex M. B. Moss. Millet.
 C.P.I. 14378. South Africa.
316344. SPINIFEX HIRSUTUS Labill. Gramineae.
 N. 785. New South Wales.
316345. STYLOSANTHES GRACILIS H. B. K. Leguminosae.
 C.P.I. 24091. Indonesia.
316346. TERAMNUS VOLUBILIS Sw. Leguminosae.
 C.P.I. 35688.
316347. TRIFOLIUM FRAGIFERUM L. Leguminosae. Strawberry clover.
 C.P.I. 24850. Afghanistan.
- 316348 and 316349. TRIFOLIUM HYBRIDUM L. Alsike clover.
 316348. C.P.I. 26134. Sweden. Originally from Turkey.
 316349. C.P.I. 29538. Argentina.
- 316350 and 316351. TRIFOLIUM INCARNATUM L. Crimson clover.
 316350. C.P.I. 25931. Yugoslavia.
 316351. C.P.I. 27231. Czechoslovakia.

316116 to 316361—Continued

316352 and 316353. *TRIFOLIUM NEGLECTUM* C.A.M.

316352. C.P.I. 22004. Soviet Union.

316353. C.P.I. 24645. Soviet Union.

316354 and 316355. *TRIFOLIUM RESUPINATUM* L.

Persian clover.

316354. C.P.I. 15346. Israel.

316355. C.P.I. 26695. Pakistan.

316356 and 316357. *TRIFOLIUM RESUPINATUM* ssp. *SUAVEOLENS* (Willd.)
Dinsm.

316356. C.P.I. 27376. Portugal.

316357. C.P.I. 27378. Portugal.

316358. *TRIFOLIUM SQUARROSUM* L.

C.P.I. 19489. Italy.

316359. *TRIFOLIUM VESICULOSUM* Savi.

Arrowleaf clover.

C.P.I. 28583. Italy.

316360. *UROCHLOA PANICOIDES* Beauv. Gramineae.

Q. 411. Queensland.

316361. *VICIA DASYCARPA* Ten. Leguminosae.

Woollypod vetch.

C.P.I. 9189.

316362 to 316363. *MALUS SYLVESTRIS* Mill. Rosaceae. **Apple.**

From Australia. Scions presented by Department of Agriculture Adelaide.
Numbered Aug. 22, 1966.

'Granny Smith'. Spur type.

316362. (a) Original tree.

316363. (b) Scions from young grafts.

316364 to 316367.

From Korea. Seeds and bulblets collected by R. W. Lighty and E. G. Corbett,
Crops Research Division, United States Department of Agriculture,
Beltsville, Md. Numbered Aug. 22, 1966.

316364. *CLEMATIS KOREANA* Komar. Ranunculaceae.

K-3. Northwest slope Mt. Halla, Cheju Island. Elevation 1,450 meters.
Growing with orchids, *Berberis*, *Vaccinium*, *Abies*. Receives sun about
one-half day; moist area, open. Vine, leaves opposite, trifoliate; flowers
yellow, some maroon on outside. (Seeds)

316365. *CORYDALIS OCHOTENSIS* Turcz. Papaveraceae.

K-29. Cheju City, Cheju Island. Growing from rock wall. Herbaceous
perennial to about 1 foot high. Leaves finely divided. Flowers lemon
yellow. (Seeds)

316366. *EMPETRUM NIGRUM* var. *ASIATICUM* Nakai Empetraceae.

K-10. Around summit of Mt. Halla, Cheju Island. Elevation 1,900
meters. Open wind swept areas. Small, awl-shaped, evergreen leaves.
Plants dwarf; fruit black when ripe. (Seeds)

316367. *SEDUM BULBIFERUM* Makino. Crassulaceae.

K-30. Cheju City, Cheju Island. Growing on rock wall at about sea
level. Fleshy-leaved herbaceous plant. Dies after flowering. Produces
many asexual propagules in leaf axils. (Bulblets)

316368 to 316373. PRUNUS ARMENIACA L. Rosaceae. Apricot.

From Syria. Budsticks presented by the Directorate of Agricultural Research, Ministry of Agriculture, Damascus. Received Aug. 29, 1966.

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| 316368. 'Ajami'. | 316371. 'Shahmy'. |
| 316369. 'Baladi'. | 316372. 'Tabmuri'. |
| 316370. 'Hamoui Tardive'. | 316373. 'Wazary'. |

316374 to 316382. SACCHARUM (hybrid) Gramineae.

From India. Cuttings presented by the Sugarcane Breeding Institute, Coimbatore. Received Aug. 30, 1966.

Grown at the Regional Sugarcane Sub-Station. Olavakkot, Palghat, Kerala.

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| 316374. I.A. 983. | 316379. I.A. 1384. |
| 316375. I.A. 1041. | 316380. I.A. 1393. |
| 316376. I.A. 1060. | 316381. I.A. 1436. |
| 316377. I.A. 1066. | 316382. I.A. 1481. |
| 316378. I.A. 1231. | |

316383. PHASEOLUS VULGARIS L. Leguminosae. Common bean.

From the United States. Seeds grown at University of New Hampshire, Durham. Numbered July 25, 1966.

Col. No. G-16925. Bulk seed from previous introductions of P.I.316013-316032 grown in greenhouse.

316384 to 316391. SACCHARUM (hybrid) Gramineae.

From Australia. Cuttings presented by the Bureau of Sugar Experiment Stations, Brisbane, Queensland. Received August 3, 1966. Numbered Sept. 1, 1966.

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| 316384. 'Comus'. | 316388. 'Q-74'. |
| 316385. 'Triton'. | 316389. 'Q-80'. |
| 316386. 'Q-36'. | 316390. 'Q-82'. |
| 316387. 'Q-42'. | 316391. 'Q-83'. |

316392. SACCHARUM (hybrid) Gramineae.

From Brazil. Cuttings presented by Wilson Brandao Toffano, Secao de Fitopatologia Aplicada, Fazenda Experimental Mato Dentro, Campinas, Sao Paulo. Received Aug. 1, 1966. Numbered September 1, 1966.

'C.P. 45-184'.

316393 to 316402. GOSSYPIUM BARBADENSE L. Malvaceae. Sea-island cotton.

From Peru. Seeds obtained by J. T. Presley, Cotton and Cordage Fibers Research Branch, Beltsville, Md., through Jose Giles, Instituto de Genetica, Sociedad Nacional Agraria, Lima. Received Sept. 1, 1966.

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| 316393. Tanguis. CN (C.P.R.) 712-60. |
| 316394. Tanguis. CN (W) 748-60. |
| 316395. Tanguis. ICA 274-59. |
| 316396. Tanguis. ICA 757-60. |
| 316397. Tanguis. LM 1041-49. |
| 316398. Tanguis. LMW 1730-60. |
| 316399. Tanguis. LMW 1736-60. |

316393 to 316402—Continued

316400. Tanguis. SNA 179.

316401. Tanguis. SNA 1610.

316402. Tanguis. SNA 7751.

316403. SACCHARUM (hybrid) Gramineae.

From Argentina. Cuttings presented by the Instituto Nacional de Tecnologia Agropecuaria. Buenos Aires. Received July 6, 1966. Numbered Sept. 1, 1966.

‘N.A. 56/30’.

316404 to 316406.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Sept. 2, 1966.

316404. CHLORIS GAYANA Kunth Gramineae. **Rhodesgrass.**

316405. PENNISETUM ORIENTALE L. C. Rich. Gramineae.

316406. SETARIA SPHACELATA (Schum.) Stapf & Hubb. ex M. B. Moss Gramineae. **Millet.****316407 to 316410.**

From Korea. Seeds collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Received Sept. 2, 1966.

316407. ALLIUM VICTORIALIS L. Liliaceae.

Col. No. K-32. Bong Nai Waterfall, Ullung Do. Elevation 1,200 feet. Low shrubby, moist area. Perennial, bulbous, edible. Bifoliate, leaves dying before fruit matures. Flowers white.

316408. ANEMONE MAXIMA Nakai Ranunculaceae.

Col. No. K-35. Trail to Bong Nai Waterfall, Ullung Do. Elevation 1,100 feet. Growing under large rock in moist area. Leaves three lobed, acaulescent. Fruit white with a black tip.

316409. LONICERA INSULARIS Nakai Caprifoliaceae.

Col. No. K-37. Above To Dong, Ullung Do. In open areas. Deciduous shrub to 1.5 meters high. Fruit red, to 2 cm. diameter.

316410. TRILLIUM TSCHONOSKII Maxim. Liliaceae. **Wood-lily.**

Col. No. K-34. Trail to Bong Nai Waterfall, Ullung Do. Elevation 1,000 feet. Growing under overhanging ledge. Thick fleshy-rooted perennial with single whorl of 3 leaves, to 12 inches high.

316411 and 316412. CHLORIS GAYANA Kunth Gramineae. Rhodesgrass.

From Rhodesia. Seeds presented by Salisbury Research Station, Salisbury. Received Sept. 2, 1966.

316411. ‘Giant’. Originally from Tanzania in 1938.

316412. ‘Katambora’. Originally collected on the banks of the Zambesi, 30 miles north of Victoria Falls in 1951.

316413 to 316415.

From Finland. Seeds collected by Donald S. Douglas, Soil Conservation Service, United States Department of Agriculture, Beltsville, Md. Received Aug. 25, 1966. Numbered Sept. 2, 1966.

316413. ELAEAGNUS sp. Elaeagnaceae.

Airport at Ravantiae, on Arctic Circle. Used as ornamental.

316413 to 316415—Continued

316414. LATHYRUS sp. Leguminosae.

316415. TRIFOLIUM MEDIUM Huds. Leguminosae.

Zigzag clover.

316416 to 316420. CYNODON DACTYLON (L.) Pers. Gramineae.

Bermudagrass.

From Switzerland. Stolons collected by Glenn Burton, Coastal Plain Experiment Station, Tifton, Ga. Received Aug. 26, 1966. Numbered Sept. 2, 1966.

316416. Col. No. 6. Two km. northeast of Eschollbrüchken near Darmstadt on Sandbach. Edge of small stream, soil very sandy. Plant medium small, leaves short, no heads, covers 30 meters. Not common.

316417. Col. No. 13. Agricultural Experiment Station near Nyon. Roadside near grape vineyard. Plant small, common, competes well with other plants under traffic.

316418. Col. No. 16. Dominant on loose gravel-sand highway shoulder near Saxon.

316419. Col. No. 17. Dominant on loose gravel-sand highway shoulder Sierre.

316420. Col. No. 18. Edge of field near road in Lugano. Plant vigorous, common, no insect galls on rhizomes.

316421 and 316422.

From Mexico. Seeds collected by O. F. Francke, Mexico, D. F. Received Aug. 26, 1966. Numbered Sept. 2, 1966.

316421. PENNISETUM sp. Gramineae.

Papaloapam River Basin, Veracruz.

316422. SETARIA GENICULATA (Lam.) Beauv. Gramineae.

Papaloapam River Basin, Veracruz.

316423. TRIFOLIUM RESUPINATUM L. Leguminosae.

Persian clover.

From Germany. Seeds presented by G. Ziegenbein, Staatliche Lehr—Und Versuchsanstalt für Grünlandwirtschaft und Futterbau, Eichhof. Received Sept. 2, 1966.

'Maral'.

316424. TRITICUM AESTIVUM L. Gramineae.

From Denmark. Seeds presented by V. Lund, Danish Sugar Factories Experiment Station, Rodby. Received Sept. 2, 1966.

'Viking'. Nr 4 (Selection from Epinal) × (1–35) Jonque, S 80 Denmark.

316425 to 316430. TRITICUM AESTIVUM L. Gramineae.

From Yugoslavia. Seeds presented by Agricultural Experiment Station, Novi Sad, Vojvodina. Received Sept. 2, 1966.

316425. IWWRN No. 150. Bc3546/62. San Pastore × Heine VII 3x Bobin 2x Gaza 2x Pawnee.

316426. IWWRN No. 151. Bc3546/62. San Pastore × Heine VII 3x Bobin 2x Gaza 2x Pawnee.

316427. IWWRN. No. 152. Bc3896/62.

316428. IWWRN No. 153. Bc3898/62.

316429. IWWRN No. 154. Bc3925/62. Elia × Osjecka sisulfa 2x Kenya 261.R.

316425 to 316430—Continued

316430. IWWRN No. 155. Bc5939/62. Hebrard × San Pastore 2x Kenya 337. BE.2.F.2.

316431 to 316439. TRITICUM AESTIVUM L. Gramineae.

From Hungary. Seeds presented through Robert Romig, University of Minnesota, St. Paul. Received Sept. 6, 1966.

- 316431. 'Bezostaja 1'.
- 316432. 'Bjelocerkovszkaja 198'.
- 316433. 'Fertodi 293'.
- 316434. 'Fleischmann 481'. 'Kompolti 169'.
- 316435. 'Karcagi 522'.
- 316436. 'Mironovszkaga 264'.
- 316437. 'Mironovszkaga 808'.
- 316438. 'Odesszkaia 16'.
- 316439. 'Szkoroszpelka 3b'.

316440. TRITICUM AESTIVUM L. Gramineae.

From New Zealand. Seeds presented by L. G. Copp, Department of Scientific and Industrial Research, Christchurch, through K. L. Lesock, North Dakota State University, Fargo, N. Dak. Received Sept. 6, 1966.

(E450 × 3 Arawa) × 3 Hilgendorf. Hexaploid.

316441 to 316470.

From Fiji Islands. Seeds presented by Department of Agriculture, Suva. Received Sept. 6, 1966.

- 316441. ARACHIS HYPOGAEA L. Leguminosae. **Peanut.**
F.D.A. 15193. 'Mani Pintar'. Originally from Queensland, 1959.
- 316442 to 316444. BRACHIARIA BRIZANTHA (Hochst.) Stapf Gramineae. **Palisade signalgrass.**
316442. F.D.A. 14897. Originally from Kenya (K. 52320).
316443. F.D.A. 15072. Originally from Australia (C.P.I. 15890).
316444. F.D.A. 15534. Originally from Australia.
- 316445. BRACHIARIA DECUMBENS Stapf
F.D.A. 15632. Originally from Australia.
- 316446. BRACHIARIA DICTYONEURA (Fig. & De Not.) Stapf
F.D.A. 15074. Originally from Australia. (C.P.I. 16707).
- 316447. BRACHIARIA MUTICA (Forsk.) Stapf
Early introduction to Fiji, about 1877.
- 316448. BRACHIARIA RUZIZIENSIS Germain & Eyrard.
F.D.A. 15459. Originally from Kenya.
- 316449 to 316451. CENCHRUS CILIARIS L. Gramineae. **Buffelgrass.**
316449. F.D.A. 15183. Biloela Strain. Originally from Australia.
316450. F.D.A. 15456. Originally from Kenya (K. 5977).
316451. F.D.A. 15630. 'Chipinga'. Originally from Maryland.
- 316452 and 316453. CENTROSEMA PUBESCENS Benth. Leguminosae.
316452. (1) Local selection.
316453. (2) Originally from Papua.

316441 to 316470—Continued

- 316454.** *DOLICHOS AXILLARIS* E. Mey. Leguminosae.
F.D.A. 16003. Originally from Australia (C.P.I. 28696).
- 316455 and 316456.** *GLYCINE JAVANICA* L. Leguminosae.
316455. 'Tinaroo'.
316456. F.D.A. 15975. 'Tinaroo'. Originally from Australia (Q. 2056).
- 316457.** *PANICUM COLORATUM* L. Gramineae.
F.D.A. 13047. Originally from Queensland (No. 7647).
- 316458 to 316461.** *PANICUM MAXIMUM* Jacq. **Guineagrass.**
316458. F.D.A. 15092. Originally from Australia (C.P.I. 16794).
316459. F.D.A. 15206. 'Trichoglume'. Originally from Kenya (K. 5021).
316460. F.D.A. 15475. Originally from Brazil.
316461. F.D.A. 15756. Colonial Guineagrass. Originally from Australia (C.P.I. 30825).
- 316462 and 316463.** *PHASEOLUS ATROPURPUREUS* DC. Leguminosae.
316462. F.D.A. 15535. 'Siratro'. Originally from Australia.
316463. F.D.A. 15313. Originally from Australia.
- 316464.** *PHASEOLUS LATHYROIDES* L.
Local. Early introduction to Fiji.
- 316465 to 316468.** *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. ex M. B. Millet.
Moss Gramineae.
316465. F.D.A. 15111. Originally from Australia (C.P.I. 14568).
316466. F.D.A. 15112. Originally from Australia (C.P.I. 16413).
316467. F.D.A. 15666. Kasungula strain. Originally from Pretoria, Republic of South Africa.
316468. F.D.A. 15758. Originally from Australia (C.P.I. 11864).
- 316469.** *SETARIA* sp.
F.D.A. 15109. Originally from Australia (C.P.I. 20853).
- 316470.** *SETARIA* sp.
F.D.A. 15110. Originally from Australia (C.P.I. 16725).
- 316471 to 316481.** *CAMELLIA SINENSIS* (L.) Kuntze **Theaceae.**
Tea.
From Japan. Plants and cuttings collected by J. L. Creech, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Sept. 6, 1966.
National Tea Experiment Station, Kanaya. Collected Sept. 2, 1966.
- 316471.** 'Beni Fuji'. Black type. Good rooting, low frost resistance. Registered 1960. (Cuttings).
- 316472.** 'Beni Homare'. Black type. Good rooting, low frost resistance. Registered 1960. (Cuttings).
- 316473.** 'Makinowara Wase'. Green type. Difficult to root, poor frost resistance. Registered 1953. (Cuttings).
- 316474.** 'Okumasashi'. Green type. Fair rooting, good frost resistance. Registered 1962. (Cuttings).
- 316475.** 'Yabukita'. Green type. Easily rooted, moderate frost resistance. Registered 1953. (Cuttings).

316471 to 316481—Continued

316476. Yamatomidori'. Green type. Difficult to root, high frost resistance. Registered 1953. (Cuttings).
 316477. 3X. Unnamed. Green type. A spontaneous triploid. (Cuttings).
 316478. 4X. Unnamed. Green type. A spontaneous tetraploid. (Cuttings).
 316479. Unnamed, listed as Abo. Black type. Not frost resistant. Originally from Malaya. (Plants).
 316480. Unnamed, listed as Acy. Black type. Not frost resistant. Originally from Ceylon. (Plants).
 316481. Unnamed, listed as Ast. Black type. Not frost resistant. Originally from Darjeeling. (Plants).

316482. MALUS SYLVESTRIS Mill. Rosaceae.**Apple.**

From Brazil. Budsticks presented by Rolf Herz, Sao Paulo. Received Sept. 9, 1966.

'Amelia'.

316483 to 316494. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Nigeria. Tubers presented by D.R.S., Ministry of Agriculture, Riyom via Vom. Received Sept. 12, 1966.

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| 316483. B-6329-1. | 316489. B-6376-3. |
| 316484. B-6337-1. | 316490. B-6376-W1. |
| 316485. B-6343-1. | 316491. B-6377-8. |
| 316486. B-6347-N1. | 316492. B-6377-11. |
| 316487. B-6376-1. | 316493. B-6377-12. |
| 316488. B-6376-2. | 316494. B-6378-1. |

316495 to 316505.

From Poland. Scions presented by Research Institute of Pomology, Skiernewice to D. F. Millikan, University of Missouri, Columbia, Mo. Received Sept. 13, 1966.

316495 to 316497. MALUS SYLVESTRIS Mill. Rosaceae.**Apple.**

316495. Antonovka X EM IX. P-1.
 316496. Antonovka X EM IX. P-II.
 316497. Antonovka X EM IX. P-VII.

316498 to 316501. PRUNUS ARMENIACA L. Rosaceae.**Apricot.**

316498. 'Aleksandyiskyi Chernyi'.
 316499. 'Syn. Krasnochohogo'.
 316500. 'Yubileynyi Navoi'.
 316501. XI-NS-5.

316502 to 316505. PRUNUS PERSICA (L.) Batsch**Peach.**

316502. 'Myvnelbin'. From Russia.
 316503. 'Sochnyi'. From Russia.
 316504. 'Teish-pea-teo'. From China.
 316505. Seedling from China.

316506 to 316510. CYNODON DACTYLON (L.) Pers. Gramineae. Bermudagrass.

From Germany. Stolons collected by Glenn Burton, Coastal Plain Experiment Station, Tifton, Ga. Received Sept. 16, 1966.

316506. Col. No. 7. Grafen Strasse, Auerbach. Tall, vigorous. Disease free. Very dominant on sandy slope in yard.

316507. Col. No. 8. Margaretan Strasse, Auerbach. Tall; stolons long, hanging from stone wall.

316508. Col. No. 9. Kasmett, near Auerbach. Tall, vigorous. Disease free. Roadside next to vineyard. Silt soil.

316509. Col. No. 11. Near Ingelheim. Small, short leaved. Common. Sandy soils.

316510. Col. No. 12. Near Ingelheim. Sod border around crop field. Plant medium; occurs only in valley. Mean temperature 7.1° C., minimum -23° C., frost temperature about 4 weeks. Rainfall 500 mm. Soil calcareous, sandy.

316511. ARUNDINARIA ALPINA Schum. Poaceae. Bamboo.

From the United States. Plants growing at the Plant Introduction Station, Glenn Dale, Md. Grown from seeds collected Oct. 25, 1964 by F. G. Meyer, National Arboretum, Washington, D.C. Number Sept. 19, 1966.

Col. No. 8629. Culms to 3 inches in diameter. Plants entirely in flower and fruit. Original seed collected 54 km. north of Finote Selam, near Injubaro, Gojam Province, Ethiopia. Elevation 8,000 feet.

316512 to 316527.

From Italy. Scions presented by Istituto di Frutticoltura, Rome. Received August 22, 1966. Numbered Sept. 19, 1966.

316512 to 316524. PRUNUS ARMENIACA L. Rosaceae. Apricot.

316512. 'Baracca'. Naples.

316513. 'Boccuccia'. Naples.

316514. 'Cofona'. Naples.

316515. 'Di Nancy'.

316516. 'Durona'.

316517. 'Luizet'.

316518. 'Montedoro'. Naples.

316519. 'Palummella'. Naples.

316520. 'Pazza'. Naples.

316521. 'Prete'. Naples.

316522. 'S. Francesco'. Naples.

316523. 'Sorrentina'. Naples.

316524. 'Zeppa di Sisco'. Naples.

316525. PRUNUS DOMESTICA L. Common plum.
'Tulea Grass'.

316526 and 316527. PRUNUS PERSICA (L.) Batsch Peach.

316526. 'Florano-84'.

316527. 'Marzocchella'.

316528. ROSA × FORTUNEANA Lindl. Rosaceae.

From the United States. Plants presented by the University of Florida, Gainesville. Received Aug. 23, 1966. Numbered Sept. 27, 1966.

316529 to 316534. PRUNUS DOMESTICA L. Rosaceae.**Common plum.**

From the Union of Soviet Socialist Republics. Scions presented by the All-Union Institute of Plant Industry, Leningrad. Received Aug. 22, 1966. Numbered Sept. 19, 1966.

316529. N-8-1. No data.

316530. N-1716. Dark brown; light blue bloom. Flesh sweet, acid. Freestone. Average weight of fruit 32 g. Late August.

316531. Aizpates N-96. Purple; light blue bloom. Flesh sweet, juicy, flavor good. Freestone. Average weight of fruit 33 g. Ripe fruits will not drop. Late August.

316532. Q-18520. 'Yellow Tartukhina'.

316533. Q-18521. 'Yellow Khopty'.

316534. Q-18522. 'Early Efremova'.

316535. VITIS VINIFERA L. Vitaceae.**European grape.**

From South Africa. Cuttings presented by R. M. Siebritz, Keerweder, Franschoek, Cape Province through J. J. Lowes, Plant Introduction Officer, Pretoria. Received Aug. 8, 1966. Numbered Sept. 19, 1966.

'Salba'. Selected from the cross 'Barlinka' × Alphonse Lavallee'. A midseason variety with uniform bunches of black, tough-skinned, nonsplitting, seeded berries. Fruit stores well.

316536. CYNODON DACTYLON (L.) Pers. Gramineae.**Bermudagrass.**

From Austria. Stolons presented by the Naturhistorisches Museum, Botanische Abteilung, Vienna. Received Aug. 30, 1966. Numbered Sept. 19, 1966.

Growing on the margin of park lawns in the city of Vienna, Maria Theresienplatz.

316537 to 316545.

From Japan. Seeds presented by Horticultural Research Station, Ministry of Agriculture, Okitsu, Shimizu, Shizuoka. Received July 11, 1966. Numbered Sept. 19, 1966.

316537 and 316538. CITRUS AURANTIUM L. Rutaceae. Sour orange.

316537. 'Konejime'. Nanyo Branch, Ehime Prefectural Station. Vigorous grower.

316538. 'Tosu'. Izu Branch, Shizuoka Prefectural Station. Resembles 'Konejime'. Vigorous grower.

316539 to 316545. CITRUS RETICULATA Blanco Mandarin orange.
Okitsu Branch.

316539. 'Dobashi-beni'. Strain of late satsuma. Rind and flesh deeper reddish brown.

316540. 'Hayashi Unshiu'. Grown in Wakayama prefecture. Patented strain of satsuma.

316541. 'Ishikawa Unshiu'. Okitsu Horticultural Research Station. Grown only in Shizuoka prefecture. Patented strain of satsuma. Late; good keeping quality.

316542. 'Miho wase'. Developed at Okitsu Station. Seedling line strain of early satsuma.

316543. 'Okitsu Wase'. Developed at Okitsu Station. Seedling line strain of early satsuma.

316537 to 316545—Continued**316539 to 316545—Continued**

316544. 'Sugiyama Unshiu'. Okitsu Horticultural Research Station. Satsuma strain from Shizuoka prefecture; earlier than common strains, widely distributed. Very productive, good quality.

316545. 'Unshiu'. Mixture of different strains of late satsumas gathered from the SSK Packing Plant.

316546 to 316551.

From Morocco. Scions collected by Quentin Zielinski, Oregon State College, Corvallis, Oreg. Received Mar. 22, 1966. Numbered Sept. 19, 1966.

316546. PYRUS sp. Rosaceae.

No. 36.

316547. PYRUS sp.

No. 37.

316548. PYRUS sp.

No. 39.

316549. PYRUS sp.

No. 40. 'Kisba Tidla'.

316550. PYRUS sp.

From Midelt.

316551. PYRUS sp.

From Taourirt.

316552 and 316553.

From Morocco. Scions presented by Institut National de la Recherche Agronomique Service de l'Horticulture, Rabat. Received March 10, 1966.

Numbered Sept. 19, 1966.

316552. PYRUS COSSONII Rehder Rosaceae.

Originally from Wageningen, The Netherlands.

316553. PYRUS SALNIFOLIA De Candolle

Originally from Geneva, Switzerland.

316554 to 316585.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Sept. 20, 1966.

316554. ALYSICARPUS LONGIFOLIUS (Rottl.) Wight & Arn. Leguminosae.

C.P.I. 16671.

316555. ALYSICARPUS RUGOSUS (Willd.) DC.

C.P.I. 29736.

316556 and 316557. CAJANUS CAJAN (L.) Millsp. Leguminosae.

Pigeon-pea.

316556. C.P.I. 18301.

316557. C.P.I. 20133.

316558 and 316559. CANAVALLIA ENSIFORMIS (L.) DC. Leguminosae.

Jackbean.

316558. C.P.I. 5769.

316559. C.P.I. 17435.

316554 to 316585—Continued

316560. *DESMANTHUS VIRGATUS* (L.) Willd. Leguminosae.
C.P.I. 30205.
316561. *DESMODIUM ADSCENDENS* (Sw.) DC. Leguminosae.
C.P.I. 7856.
316562. *DESMODIUM ANGUSTIFOLIUM* (HBK.) DC.
C.P.I. 17183.
- 316563 to 316565. *DESMODIUM DISTORTUM* (Aubl.) Macbride
316563. C.P.I. 15288.
316564. C.P.I. 18297.
316565. C.P.I. 28324.
- 316566 to 316568. *DOLICHOS BIFLORUS* L. Leguminosae. **Twinflower dolichos.**
316566. C.P.I. 8329.
316567. C.P.I. 8342.
316568. C.P.I. 14629.
- 316569 to 316575. *DOLICHOS LABLAB* L. **Hyacinth-bean.**
316569. Q. 684. 'Rongai'. 316573. C.P.I. 24973.
316570. C.P.I. 16880. 316574. C.P.I. 29398.
316571. C.P.I. 23551. 316575. C.P.I. 30213.
316572. C.P.I. 23934.
- 316576 to 316579. *HEDYSARUM CORONARIUM* L. Leguminosae. **Sulla.**
316576. C.P.I. 14466. 316578. C.P.I. 20623.
316577. C.P.I. 19836. 316579. C.P.I. 27144.
316580. *INDIGOFERA SUBULATA* Vahl. ex Poir. Leguminosae.
C.P.I. 24205.
316581. *PHASEOLUS LATHYROIDES* L. Leguminosae.
Q. 658.
316582. *STYLOSANTHES FRUTICOSA* (Retz.) Alston Leguminosae.
C.P.I. 25368.
- 316583 and 316584. *STYLOSANTHES GRACILIS* HBK.
316583. Q. 682.
316584. C.P.I. 24091.
316585. *TRAMNUS UNGINATUS* (L.) Swartz Leguminosae.
C.P.I. 22620.
316586. *PISUM SATIVUM* L. Leguminosae. **Pea.**
From Australia. Seeds presented by K. P. Barley, University of Adelaide,
Waite Agricultural Research Institute, Adelaide. Received Sept. 20, 1966.
'White Brunswick'.
316587. *PIPER NIGRUM* L. Piperaceae. **Black pepper.**
From Thailand. Cuttings collected by Llewelyn Williams, agricultural ex-
plorer, Crops Research Division, Plant Industry Station, Beltsville, Md.
Collected Jan. 24, 1965. Numbered Sept. 20, 1966.
Col. No. 19312. On property of Chow Chinokul, Trang Province.

316588. ILEX CRENATA Thunb. Aquifoliaceae. **Japanese holly.**

From the United States. Plant growing at National Arboretum, Washington, D.C. Numbered Sept. 20, 1966.

N.A. No. 16473. 'High Light'. Originated from single branch mutation of *I. crenata* 'Microphylla'. Plant broad conic. Branches and foliage boxwood-like. Male. Easily propagated by cuttings.

316589 to 316594. SOLANUM TUBEROSUM L. Solanaceae. **Potato.**

From Peru. Tubers collected by Alberto Martin, Estacion Experimental Agricola, La Molina. Received Sept. 15, 1966. Numbered Sept. 20, 1966.

Department Huancavelica, Province Tayacaja.

316589. Col. No. 1. 'Suito Shiri'. Zone Nahuinpuquio. Elevation 3,600 to 4,200 meters.

316590. Col. No. 2. 'Suito Shiri'. Zone San Cristobal de Nahuinpuquio. Elevation 3,700 to 4,200 meters.

316591. Col. No. 3. 'Shiri'. Zone Imperial Nahuinpuquio. Elevation 3,700 to 4,200 meters.

316592. Col. No. 4. 'Suito Shiri'. Zone Mullaca. Elevation 3,600 to 4,200 meters.

316593. Col. No. 5. 'Shiri'. Zone Mullaca. Elevation 3,600 to 4,200 meters.

316594. Col. No. 6. 'Janshillo'. Zone Mullaca. Elevation 3,600 to 4,200 meters.

316595 to 316609.

From Korea. Seeds collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Numbered Sept. 21, 1966.

316595. ACTAEA SPICATA var. **NIGRA** Willd. Ranunculaceae.

Col. No. K-137. Shady areas along trail on Mt. Chiri, Cholla Namdo. Elevation 1,380 meters. Herbaceous perennial. Fruits terminal, blue black.

316596. ALANGIUM PLATANIFOLIUM var. **TRILOBUM** (Miq.) Ohwi Cornaceae.

Col. No. K-131. Shaded area near trail to No Go Dan on Mt. Chiri, Cholla Namdo. Elevation 840 meters. Low open shrub. Leaves like *Platanus*. Fruit blue.

316597. CLEMATIS sp. Ranunculaceae.

Col. No. K-168. Near No Go Dan, Mt. Chiri, Cholla Namdo. Elevation 1,350 meters. Woody vine. Flower not seen.

316598. CLINTONIA UDENSIS Trautv. & Mey. Liliaceae.

Col. No. K-150. In dense shade along trail on Mt. Chiri, Cholla Namdo. Elevation 1,440 meters. Herbaceous perennial, usually bifoliate. Fruit blue.

316599. COREANOMECON HYLOMECONOIDES Nakai Papaveraceae.

Col. No. K-132. In shady, moist area near trail up Mt. Chiri, Cholla Namdo. Elevation 900 meters. Herbaceous perennial to 30 cm. Flower bright yellow. Sap red.

316600. EUONYMUS MACROPTERUS Rupr. Celastraceae.

Col. No. K-155. Sim Won, Mt. Chiri, Cholla Namdo. Elevation 700 meters. Deciduous shrub to 5 meters. Fruit red, winged.

316601. EUONYMUS OXYPHYLLUS Miquel

Col. No. K-156. Sim Won, Mt. Chiri, Cholla Namdo. Elevation 700 meters. Deciduous shrub to 3 meters. Fruit pink, not winged.

316595 to 316609—Continued

316602. *HEMEROCALLIS COREANA* Nakai Liliaceae.

Col. No. K-151. Common in open areas along trail on Mt. Chiri, Cholla Namdo. Elevation 1,500 meters. Strap-leaved perennial, flowers yellow.

316603. *ILEX DUBIA* var. *MACROPODA* (Miquel) Loes. Aquifoliaceae.

Col. No. K-133. Along trail up Mt. Chiri, Cholla Namdo. Growing in open. Elevation 1,110 meters. Tall deciduous shrub to 4 meters. Fruit red in small clusters.

316604. *PAEONIA JAPONICA* Miyabe & Takeda Ranunculaceae.

Col. No. K-153. In open area on Mt. Chiri, Cholla Namdo. Elevation 1,500 meters. Herbaceous perennial, to 1 meter high. Flower not seen.

316605. *PRIMULA* sp. Primulaceae.

Col. No. K-148. In shady moist area along trail on Mt. Chiri, Cholla Namdo. Elevation 1,410 meters. Rosette-forming perennial to ½ meter. Flowers mauve. Leaves circular, dentate.

316606. *SCHISANDRA CHINENSIS* (Turcz.) Baill. Magnoliaceae.

Col. No. K-158. Sim Won, Mt. Chiri, Cholla Namdo. Elevation 700 meters. Woody vine. Leaves alternate. Fruit red in clusters.

316607. *STREPTOPUS STREPTOPOIDES* (Ledeb.) Frye & Rigg. Liliaceae.

Col. No. K-135. In shady area along trail on Mt. Chiri, Cholla Namdo. Elevation 1,350 meters. Fleshy-rooted perennial. Fruit red, terminal stem internodes angled.

316608. *VACCINIUM KOREANUM* Nakai Ericaceae.

Col. No. K-134. On summit of secondary peak, Mt. Chiri, Cholla Namdo. Elevation 1,500 meters. Deciduous shrub, to 1 meter. Fruit red, edible.

316609. *VIBURNUM SARGENTII* Koehne Caprifoliaceae.

Col. No. K-164. Above No Go Dan, Mt. Chiri, Cholla Namdo. Growing in open alpine meadow. Elevation 1,410 meters. Deciduous shrub, to 2 meters. Fruit red.

316610. *LUPINUS ALBUS* L. Leguminosae. **White lupine.**

From Germany. Seeds presented by R. V. Sengbusch, Max Planck Institut für Kulturpflanzenzüchtung, Hamburg-Volhsdorf. Numbered Sept. 21, 1966.

'Saatgut'. Alkaloid-free.

316611 to 316622.

From Korea. Seeds collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Numbered Sept. 21, 1966.

316611. *BETULA PLATYPHYLLA* Sukatchev Betulaceae. **Asian white birch.**

Col. No. K-57. Seoul. Growing in garden of Chang Duck Girls School. Deciduous tree to 7 meters high. Bark white. Fruit in catkins.

316612. *BUXUS MICROPHYLLA* var. *KOREANA* Nakai Buxaceae.

Col. No. K-58. On slopes of Mt. Kwanak, south of Seoul. Elevation 100 meters. Growing among rhododendrons and second-growth pine. Low evergreen shrub. Leaves small.

316613. *CAREX KOBOMUGI* Ohwi Cyperaceae.

Col. No. K-74. On beach south of Yang Yang, Kangwando. Growing in pure sand. Low grassy perennial. Inflorescence short, dense.

316611 to 316622—Continued

316614. *CALYSTEGIA SOLDANELLA* R. Br. Convolvulaceae.

Col. No. K-75. On beach south of Yang Yang, Kangwando. Growing in sand. Prostrate vining plant with cordate, somewhat fleshy leaves. Seeds about 4 to a capsule, black.

316615. *CLEMATIS PATENS* Morr. & Decne. Ranunculaceae.

Col. No. K-103. Swampy area near Taek Wal Yang Experiment Station, Kangwando. Elevation 780 meters. Fruiting head large.

316616. *CORNUS CONTROVERSA* Hemsl. Cornaceae. **Giant dogwood.**

Col. No. K-64. Along edge of streambed on east side of Mt. Sorak, Kangwando. Elevation 200 meters. Deciduous tree, to 8 meters high. Leaves alternate. Fruit in flat-topped corymb.

316617. *HEMEROCALLIS* sp. Liliaceae.

Col. No. K-59. Trail along rocky streambed at base of Mt. Sorak, Kangwando. Perennial, strap leaved, fleshy rooted. Flower stalk shorter than leaves.

316618. *LONICERA NIGRA* L. Caprifoliaceae. **Honeysuckle.**

Col. No. K-104. Swampy area near Taek Wal Yang Experiment Station, Kangwando. Elevation 780 meters. Growing in full sun. Compact deciduous shrub, to 1 meter high. Fruit red, single.

316619. *MAIANTHEMUM DILATATUM* (Wood) A. Nels. & Macbr. Liliaceae.

Col. No. K-47. On Mt. Songin-Bang, Ullung-Do. Elevation 900 meters. In dense woods. Herbaceous perennial with short, thin rhizome. Two shield-shaped leaves on each plant.

316620. *PRUNUS PADUS* L. Rosaceae.

Col. No. K-69. East slope of Park Tal Mountain, east end of Sorak Range, Kangwando. Elevation 800 meters. Growing in moist open areas. Deciduous tree, to 5 meters high. Fruit black, edible, in racemes. Leaves glaucous beneath.

316621 and 316622. *VACCINIUM KOREANUM* Nakai Ericaceae.

316621. Col. No. K-70. West slope of Park Tal Mountain, east end of Sorak Range, Kangwando. Elevation 800 meters. Growing in pine oak forest. Deciduous shrub, to 50 cm. high. Fruit single, red, sour.

316622. Col. No. K-96. Along trail on Mt. Odai, Kangwando. Elevation 810 meters. Growing on edge of streambed. Deciduous shrub, to 1.5 meters high. Fruit red.

316623 to 316627.

From Venezuela. Seeds collected by G. P. Gibbs, Food and Agriculture Organization, Barquisimeto. Received Sept. 22, 1966.

316623. *DESMODIUM ADSCENDENS* (Sw.) DC. Leguminosae.

316624. *DESMODIUM AFFINE* Schlecht.

316625. *DESMODIUM* sp.

No. 2.

316626. *DESMODIUM* sp.

No. 3.

316627. *RHYNCHOSIA MINIMA* (L.) DC. Leguminosae.

316628 to 316631.

From Korea. Seeds collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Received Sept. 22, 1966.

316628 to 316631—Continued

316628. CLEMATIS TRICHOTOMA Nakai Ranunculaceae.

Col. No. K-112. Along trail on Mt. Baek Yang, Cholla Namdo. Elevation 1,100 feet. Growing on shrubs. Perennial vine.

316629. IRIS LAEVIGATA Fisch. Iridaceae.

Col. No. K-121. On ground of Seoul National University, Suwon. Strap-leaved perennial. Flowers reportedly small, blue.

316630. RUBUS TAKESIMENSIS Nakai Rosaceae.

Col. No. K-56. Open areas near To Dong, Ullungdo. Elevation about 100 meters. Straggling deciduous shrub. Thornless, fruit red, subacid, fair quality. Picks clean, holds together well.

316631. SAMBUCUS WILLIAMSII Hance Caprifoliaceae.

Col. No. K-128. Campus of Seoul National University, Suwon. Shrub, tall, to 5 meters. Leaves pinnately compound. Fruit purplish black.

316632 to 316635.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Sept. 22, 1966.

316632 and 316633. CHLORIS GAYANA Kunth Gramineae. **Rhodesgrass.**

316632. C.P.I. 16043.

316633. C.P.I. 27211.

316634. GOSSYPIUM POPULIFOLIUM (Benth.) F. Muell. ex Tod. Malvaceae.

Originally from Western Botanic Gardens.

316635. GOSSYPIUM STURTIANUM J. H. Willis

Originally from Western Australia Botanic Gardens.

316636. LYCOPERSICON (hybrid) Solanaceae.

From Poland. Seeds presented by Academie Polonaise Des Sciences, Institut de Genetique, Skierniewice. Received Sept. 22, 1966.

No. L. 826. *L. esculentum* × *L. minutum*. B^m/B^m,sp/sp, u/u. High in beta carotene.

316637 and 316638.

From Japan. Seeds presented by Ministry of Agriculture and Forestry, Horticultural Research Station, Morioka Branch, Shimokurlyagawa, Morioka. Received Sept. 22, 1966.

316637. SAMBUCUS sp. Caprifoliaceae.

Red strain.

316638. SAMBUCUS sp. Caprifoliaceae.

Yellow strain.

316639. PRUNUS PERSICA (L.) Batsch, Rosaceae. **Peach.**

From Canada. Scions presented by the Research Station, Harrow, Ontario. Received Sept. 22, 1966.

'Dwarf Blood'.

316640 to 316656.

From Korea. Seeds collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Received Sept. 29, 1966.

316640 to 316656—Continued

- 316640 and 316641. *ACER TRIFLORUM* Komarov Aceraceae. **Three-flower maple.**
316640. Col. No. K-181. Small arboretum on college campus, Suwon. Deciduous tree to 10 meters high. Leaves trifoliate. Bark tan, exfoliating. Fruit with heavy shell.
316641. Col. No. K-198. Maple-oak forest near Forest Experiment Station, Kwang Nung, Kyunggido. Deciduous tree to 20 meters high. Leaves trifoliate. Bark on branches slightly exfoliating.
316642. *ARISTOLOCHIA CONTORTA* Bunge Aristolochiaceae.
- Col. No. K-189. Kwang Kyo. Growing on shrub in open area. Herbaceous vine. Leaves cordate; fruit globular.
316643. *ASPARAGUS OLIGOCLONOS* Maxim. Liliaceae.
- Col. No. K-190. Kwang Kyo. Along edge of rocky streambed. Herbaceous perennial to 1.5 meters high. Leaves linear; fruit axillary, red.
316644. *PHASEOLUS ANGULARIS* var. *NIPPONENSIS* (Ohwi) Ohwi Leguminosae.
- Col. No. K-192. Kwang Kyo. Open grassy areas. Herbaceous. Flowers white; fruit small, black when ripe.
316645. *BETULA DAVURICA* Pall. Betulaceae. **Dahurian birch.**
- Col. No. K-217. Campus of Agriculture College of Seoul National University, Suwan. Deciduous tree to 12 meters high. Bark exfoliating, grayish tan.
316646. *CARDIOSPERMUM HALICACABUM* L. Sapindaceae. **Balloon vine.**
- Col. No. K-169. Suwon. Growing in Agronomy Department display garden. Herbaceous vine. Flowers small, white; fruit bladderly; capsule to 4 cm.; 3 seeds per pod.
316647. *CRATAEGUS MAXIMOWICZII* Schneider Rosaceae.
- Col. No. K-170. Suwon. Growing in small arboretum. Loose shrub to 2 meters high; fruits red.
316648. *IRIS ROSSII* Baker Iridaceae.
- Col. No. K-171. Temple grounds about 5 km. from Suwon. Herbaceous perennial. Leaves longer than flower stems.
316649. *JULANS MANDSHURICA* Maxim. Juglandaceae. **Manchee walnut.**
- Col. No. K-209. In plantings and mixed forest of Forest Experiment Station, Kwang Nung, Kyunggido. Deciduous tree to 20 meters high. Fruit edible.
316650. *MALUS BACCATA* (L.) Moench Rosaceae. **Siberian crabapple.**
- Col. No. K-202. Along streambed, Kwang Nung, Kyunggido. Deciduous tree to 15 meters high. Fruit small, red.
316651. *PHYTOLACCA ESCULENTA* Van Houtte Phytolaccaceae.
- Col. No. K-157. Sim Won, Mt. Shiri, Cholla Namdo. Elevation 700 meters. Herbaceous perennial to 1 meter high. Leaves broad and long; fruit purplish.
316652. *PLATYCARYA* sp. Juglandaceae.
- Col. No. K-211. Edge of parking lot for King's Tomb, Kwang Nung, Kyunggido. Deciduous tree to 10 meters high. Leaves compound; fruit in racemes.
316653. *PRUNUS JAPONICA* var. *NAKAI* (Steud.) Koehne Rosaceae.
- Col. No. K-208. Along streambank, Kwang Nung, Kyunggido. Small deciduous shrub to 1 meter high. Fruit cherry sized, red, tart.

316640 to 316656—Continued

316654. *RUBUS TRIPHYLLUS* Thunb. Rosaceae.

Col. No. K-184. Kwang Kyo. Open grassy area; stony soil. Semi-erect, thorny canes. Fruit red, separates from core.

316655. *SYMPLOCOS PRUNIFOLIA* Sieb. & Zucc. Symplocaceae.

Col. No. K-183. Small arboretum on college campus, Suwon. Deciduous shrub to two meters high. Fruit blue.

316656. *VIRBURNUM EROSUM* Thunb. Caprifoliaceae.

Col. No. K-191. Kwang Kyo. Along edge of rocky streambed. Deciduous shrub to 1.5 meters high. Fruit small, red.

316657 to 316666. *PENNISETUM TYPHOIDES* (Burm. f.) Stapf & C.E. Hubbard Gramineae. **Millet.**

From Ghana. Seeds presented by Ghana Academy of Sciences, Crops Research Institute, Plant Introduction and Exploration, Bunso-Bosuso. Received Sept. 30, 1966.

316657. 'Cherzona' (Kassena). Early.

316658. 'Manga Local'. Early.

316659. 'Manganara 1'. Early.

316660. 'Manganara 2'. Early.

316661. 'Mimpozona' (Kassena). Late.

316662. 'Mimpozona' (Dagbana). Late.

316663. 'Nyanza 1'. Late.

316664. 'Nyanza 2'. Late.

316665. 'Nyankpala Local'. Late.

316666. 'Walor' (Kassens). Early.

316667 to 316669. *CYDONIA OBLONGA* Mill. Rosaceae. **Quince.**

From Poland. Scions presented by Research Institute of Pomology, Skierniewice. Received Aug. 11, 1966. Numbered Sept. 30, 1966.

316667. Pigwa S-1.

316668. Pigwa S-2.

316669. Pigwa Skierniewice S-3.

316670. *TAMARIX APHYLLA* (L.) Karst. Tamaricaceae.

From the United States. Plants growing at Plant Introduction Station, Miami, Fla. Numbered Sept. 30, 1966.

316671 to 316682.

From the United States. Plants bred or selected at National Arboretum, Washington, D.C. Numbered Sept. 30, 1966.

316671 to 316674. *LAGERSTROEMIA INDICA* L. Lythraceae.

Common crapemyrtle.

316671. N.A. 28861. 'Catawba'. (Dwarf lilac) × (tall, light lavender). Growth habit dense, globose, medium. Inflorescences abundant, compact, dark purple.

316672. N.A. 28862. 'Conestoga'. (White) × 'Low Flame'. Growth habit open. Inflorescences long tapered, arch gracefully outward, early; florets medium lavender change to pale lavender.

316673. N.A. 28863. 'Potomac'. Selection from colchicine treated seedlings. Growth upright. Inflorescences terminal, large, clear light pink.

316671 to 316682—Continued

316671 to 316674—Continued

316674. N.A. 28864. 'Powhatan'. (Dwarf lilac) × (tall, light lavender). Growth habit compact, medium. Inflorescences abundant, compact, medium lavender.

316675 and 316676. VIBURNUM (hybrid). Caprifoliaceae. **Viburnum.**

316675. N.A. 28865. 'Alleghany'. (*V. rhytidophyllum* × *V. lantana*). F₂ selection. Plant compact. Leaves glossy, dark green, coriaceous. Fruit ripens from red orange to black.

316676. N.A. 28869. 'Oneida'. (*V. dilatatum* × *V. lobophyllum*). Plant upright; several periods of flowering each season. Fruit abundant, scarlet, persistent.

316677 and 316678. VIBURNUM DILATATUM Thunb. **Linden viburnum.**

316677. N.A. 28866. 'Catskill'. Selection from seed received from Province Matsu, Hondo, Japan. Growth compact; leaves small; fruit heavy.

316678. N.A. 28867. 'Iroquois'. *Viburnum dilatatum* selections hybrid. Plant globose. Leaves large, heavy textured. Fruit large, brilliant red, large clusters.

316679. VIBURNUM LANTANA L. **Wayfaring-tree.**

N.A. 28868. 'Mohican'. Large-fruited selection from seed obtained from Poland. Plant dense. Foliage heavy, resistant to leaf spot; fruit brilliant orange, effective for a month.

316680 and 316681. VIBURNUM SARGENTII Koehne

316680. N.A. 28870. 'Onondaga'. Seedling selection. Plant upright; young growth dark, velvety maroon; fruit crimson.

316681. N.A. 28872. 'Susquehanna'. Selection from seed received from Province Matsu, Hondo, Japan. Branches stout, upright; trunk corky; foliage glossy; flower and fruit inflorescences large.

316682. VIBURNUM SIEBOLDII Miquel **Siebold viburnum.**

N.A. 28871. 'Seneca'. *V. sieboldii* selection. Tree growth habit. Fruit hard, red, not eaten by birds, effective several months.

316683 to 316685.

From the United States. Seeds collected in Florida by C. R. Gunn, botanist, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Oct. 3, 1966.

316683. VICIA ACUTIFOLIA Ell. Leguminosae.

Col. No. 3364. Lake County, Florida.

316684. VICIA FLORIDANA S. Wats.

Col. No. 3348. Taylor County, Florida.

316685. VICIA OCALENSIS G. & K.

Col. No. 3361. Lake County, Florida.

316686. VICIA LEAVENWORTHII Torr. & Gray Leguminosae.

From the United States. Seeds collected by Mildred Mauldin, Registered Seed Technician, Southwest Seed Testing Service, Waco, Tex. Received Oct. 3, 1966.

Collected in Edwards Plateau, Tex.

316687. VICIA LUDOVICIANA Nutt. Leguminosae.

From the United States. Seeds collected by R. Runyon, Botanist, Brownsville, Tex. Received Oct. 3, 1966.

Col. No. 6015. Brownsville, Tex.

316688 to 316719.

From Korea. Seeds collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Received Oct. 4, 1966.

316688. *AKEBIA QUINATA* Decne. Lardizabalaceae.

Col. No. K-271. Near Temple on Mt. Tok-yu, Ko Chun. Large perennial vine. Fruit elongate, edible. Leaves palmate, five-lobed.

316689. *ASPARAGUS SCHOBERIOIDES* Kunth Liliaceae.

Col. No. K-284. Streambed, Mt. Sok Ni, Chunchong Pukto. Elevation 300 meters. Small tree or large shrub with several stems. Some branches producing adventitious roots.

316690 and 316691. *BETULA COSTATA* Trautv. ex Maxim. Betulaceae.

316690. Col. No. K-269. Along trail on Mt. Tok-yu, Ko Chun. Deciduous small-medium tree. Bark white, exfoliating; leaves longer than broad.

316691. Col. No. K-279. Along road from Ko Chun to Muu Ju. Growing in open on cliff edge. Deciduous tree to 5 meters high. Bark white, exfoliating.

316692. *CHLORIS VIRGATA* Swartz Gramineae. **Feather fingergrass.**

Col. No. 287. Seaward edge of seawall, Kan Ja. Clump-forming grass. Stems tend to flatten, inflorescences upright, digitately compound, purple red when young.

316693. *CLEMATIS TRICHOTOMA* Nakai Ranunculaceae.

Col. No. K-220. Along streambed on Mt. Sok Ni, Chunchong Pukto. Elevation 450 meters. Vine, usually in open areas; flowers in 3's.

316694. *CORNUS COREANA* Wanger. Cornaceae.

Col. No. K-278. Along road from Ko Chun to Muu Ju. Deciduous shrub to 3 meters high. Fruit in a cyme, may be green when ripe.

316695. *CORNUS KOUSA* Hance. **Kousa dogwood.**

Col. No. K-277. Along trail to Mt. Tok-yu, Ko Chun. Deciduous tree to 5 meters high. Branches nearly horizontal. Fruit red.

316696. *DIOSPYROS KAKI* L. f. Ebenaceae. **Kaki persimmon.**

Col. No. K-250. Purchased from vendors along roadside Ok Chun. Early ripening, sweet tasting.

316697. *DIOSPYROS LOTUS* L. **Persimmon.**

Col. No. K-281. Along road from Ok Chun to Taejon, in field. Tree to 15 meters high. Fruit small, blue when ripe, seedy. Used as rootstock.

316698. *ERAGROSTIS JAPONICA* (Thunb.) Trin. Gramineae.

Col. No. K-265. On edge of manmade lake, Muu Ju. Flowers reddish spikes. Variable in stature. Ornamental.

316699. *EUONYMUS ALATUS* (Thunb.) Rupr. Celastraceae. **Winged euonymus.**

Col. No. K-225. Mt. Sok Ni, Chunchong Pukto. Growing in partial shade. Elevation 450 meters. Deciduous shrub to 2 meters high. Bark not winged.

316700. *EUONYMUS OXYPHYLLUS* Miquel

Col. No. K-253. Along stream on Mt. Tok-Yu, Ho Chun, Cholla Pukto. Deciduous shrub or small tree to 5 meters high. Fruit red, plentiful.

316701. *GYPSOPHILA OLDHAMIANA* Miq. Caryophyllaceae.

Col. No. K-286. Island off Kan Ja. Herbaceous perennial to 75 cm. high. Flowers white with some pink. Leaves small, linear.

316688 to 316719—Continued

316702. *HEMEROCALLIS COREANA* Nakai Liliaceae.

Col. No. K-270. In grassy area near temple on Mt. Tok-Yu, Ko Chun. Herbaceous perennial to 1 meter high.

316703 and 316704. *ILEX MONTANA* var. *MACROPODA* (Miq.) Fernald Aquifoliaceae.

316703. Col. No. K-249. Growing in open along trail on Mt. Sok Ni. Elevation 450 meters. Deciduous shrub to 5 meters high. Fruit red.

316704. Col. No. K-274. Along road to Mt. Tok-Yu, Ko Chun. Deciduous shrub or small tree to 6 meters high. Fruit small, red. Very productive specimen.

316705. *IMPATIENS TEXTORII* Miq. Balsaminaceae.

Col. No. K-221. Mt. Sok Ni, Chunchong, Pukto. In moist shady areas. Herbaceous plant to 1 meter high. Flowers purple.

316706. *LILIUM MIQUELIANUM* Makino Liliaceae.

Col. No. K-259. Along trail to Mt. Tok-Yu, Ko Chun. Bulbous perennial. Scales jointed. Stems rooting.

316707. *LINDERA ERYTHROCARPA* Makino Lauraceae.

Col. No. K-247. Along rocky stream, Mt. Sok Ni, Chunchong, Pukto. Elevation 390 meters. Deciduous small tree. Fruit red.

316708. *LINDERA OBTUSILOBA* Blume

Col. No. K-248. Along rocky stream, Mt. Sok Ni, Chunchong, Pukto. Elevation 390 meters. Deciduous small tree or large shrub to 5 meters high. Leaves lobed; fruit black.

316709 and 316710. *MAGNOLIA SIEBOLDII* K. Koch. Magnoliaceae.

Oyama magnolia.

316709. Col. No. K-223. Streambed, Mt. Sok Ni, Chunchong Pukto. Elevation 300 meters. Small tree or large shrub with several stems. Some branches producing adventitious roots.

316710. Col. No. K-254. Mt. Tok-Yu, Ko Chun, Cholla Pukto. Small tree with several stems. Fruit red.

316711. *MALUS SIEBOLDII* (Regal) Rehder Rosaceae. *Toringo crabapple.*

Col. No. 255. Along stream on Mt. Tok-Yu, Ko Chun, Cholla Pukto. Deciduous tree to 8 meters high. Fruit small, red. Some leaves lobed at base.

316712. *SCHIZANDRA CHINENSIS* C. Koch Magnoliaceae.

Col. No. K-251. Ko Chun, on Mt. Tok-Yu. Vine clambering over plants in partial shade. Fruit red, in hanging clusters.

316713. *STAPHYLEA BUMALDA* DC. Staphyleaceae.

Col. No. K-275. Along trail on Mt. Tok-Yu, Ko Chun. Deciduous shrub to 2 meters high. Fruit abundant.

316714. *SYMPLOCOS PANICULATA* (Thunb.) Miq. Symplocaceae.

Col. No. 245. On Mt. Sok Ni, Chunchong Pukto. Elevation 360 meters. Growing in partial shade. Deciduous shrub. Fruit blue.

316715. *TILIA MIQUELIANA* Maxim. Tiliaceae. *Mongolian linden.*

Col. No. K-235. On temple grounds, Pok Chu Sa, Mt. Sok Ni. Deciduous tree to 20 meters high. Round headed, good shape.

316716. *TILIA TAQUETHII* C. K. Schneider

Col. No. K-252. Along stream on Mt. Tok-Yu, Ko Chun, Cholla Pukto. Tree to 15 meters high. Fruit small.

316688 to 316719—Continued

316717. *VACCINIUM KOREANUM* Nakai Ericaceae.

Col. No. K-256. Along stream on Mt. Tok-Yu, Ko Chun. Deciduous shrub to 1.5 meters high. Fruit red, fair size, tart. Leaves turning pinkish red in fall.

316718. *VIBURNUM DILATATUM* Thunb. Caprifoliaceae. **Linden viburnum.**

Col. No. K-246. Along trail up Mt. Sok Ni, Chunchong Pukto. Elevation 450 meters. Deciduous shrub to 2 meters high. Fruit small, red.

316719. *VITIS AMURENSIS* Rupr. Vitaceae. **Amur grape.**

Col. No. K-219. Mt. Sok Ni, Chunchong Pukto. Common at various altitudes. Vigorous vine clambering over small tree. Fruit purple, small, tart.

316720 to 316728.

From Great Britain. Plants presented by the Royal Botanic Gardens, Kew, Richmond, Surrey, England. Received Oct. 5, 1966.

316720. *IXORA CHINENSIS* Lam. Rubiaceae.

316721. *IXORA COCCINEA* L.

'Superba'.

316722. *IXORA LUTEA* Hutch.

316723. *IXORA ROSEA* Wall

316724. *IXORA* sp.

316725. *IXORA* sp.

316726. *IXORA* sp.

'Henry Morat'.

316727. *IXORA* sp.

'Red Velvet'.

316728. *IXORA* sp.

'Super King'.

316729. *PASPALUM DILATATUM* Poir. Gramineae. **Dallisgrass.**

From the United States. Plants presented by C. R. Owen, Department of Agronomy, Louisiana Agricultural Experiment Station, Baton Rouge, La. Plants growing at Southern Regional Plant Introduction Station, Experiment Ga. Numbered Oct. 6, 1966.

Roadside north of Ida, La. Clone distinguished only by hirsute covering on leaves and glumes.

316730 to 316759. *SACCHARUM* (hybrid) Gramineae.

From the Dominican Republic. Cuttings presented by the Central Romana Corporation, La Romana. Received Oct. 12, 1966.

316730. CR-6404.

316738. CR-6483.

316731. CR-6423.

316739. CR-6488.

316732. CR-6436.

316740. CR-6498.

316733. CR-6443.

316741. CR-64101.

316734. CR-6449.

316742. CR-64110.

316735. CR-6461.

316743. CR-64116.

316736. CR-6467.

316744. CR-64117.

316737. CR-6468.

316745. CR-64126.

316730 to 316759—Continued

316746. CR-64130.	316753. CR-64190.
316747. CR-64143.	316754. CR-64209.
316748. CR-64147.	316755. CR-64215.
316749. CR-64160.	316756. CR-64217.
316750. CR-64164.	316757. CR-64223.
316751. CR-64181.	316758. CR-64225.
316752. CR-64182.	316759. CR-64230.

316760 to 316886. HORDEUM VULGARE L. Gramineae.

From Germany. Seeds presented by Christian Lehmann, Deutsche Akademie der Wissenschaften zu Berlin, Gatersleben. Received Oct. 14, 1966.

316760. A C 135/65.	316792. A HOR 1677/64.
316761. A C 136/65.	316793. A HOR 1718/64.
316762. A C 137/65.	316794. A HOR 1725/64.
316763. A C 138/65.	316795. A HOR 1729/63.
316764. A C 141/65.	316796. A HOR 1859/65.
316765. A C 142/65.	316797. A HOR 2537/63.
316766. A HOR 38/63.	316798. A HOR 2538/63.
316767. A HOR 39/63.	316799. A HOR 2539/63.
316768. A HOR 40/65.	316800. A HOR 2540/63.
316769. A HOR 41/63.	316801. A HOR 2541/63.
316770. A HOR 42/64.	316802. A HOR 2542/63.
316771. A HOR 43/63.	316803. A HOR 2543/63.
316772. A HOR 786/63.	316804. A HOR 2544/64.
316773. A HOR 1429/63.	316805. A HOR 2545/63.
316774. A HOR 1430/63.	316806. A HOR 2546/63.
316775. A HOR 1457/64.	316807. A HOR 2547/63.
316776. A HOR 1493/63.	316808. A HOR 2548/63.
316777. A HOR 1501/65.	316809. A HOR 2549/63.
316778. A HOR 1503/64.	316810. A HOR 2550/63.
316779. A HOR 1504/65.	316811. A HOR 2551/63.
316780. A HOR 1506/64.	316812. A HOR 2552/63.
316781. A HOR 1560/63.	316813. A HOR 2553/63.
316782. A HOR 1630/64.	316814. A HOR 2555/63.
316783. A HOR 1631/63.	316815. A HOR 2556/63.
316784. A HOR 1632/63.	316816. A HOR 2557/63.
316785. A HOR 1633/64.	316817. A HOR 2558/63.
316786. A HOR 134/65.	316818. A HOR 2559/63.
316787. A HOR 1635/63.	316819. A HOR 2560/63.
316788. A HOR 1636/63.	316820. A HOR 2561/63.
316789. A HOR 1637/63.	316821. A HOR 2562/63.
316790. A HOR 1639/63.	316822. A HOR 2563/63.
316791. A HOR 1642/63.	316823. A HOR 2564/63.

316760 to 316886—Continued

316824. A HOR 2565/65.	316856. A S 7119/63.
316825. A HOR 2566/63.	316857. A S 7121/63.
316826. A HOR 2567/63.	316858. A S 7124/63.
316827. A HOR 2568/63.	316859. A S 7125/63.
316828. A HOR 2569/63.	316860. A S 7126/63.
316829. A HOR 2575/63.	316861. A S 7127/63.
316830. A HOR 2577/63.	316862. A S 7128/63.
316831. A HOR 2676/65.	316863. A S 7129/63.
316832. A HOR 2677/63.	316864. A S 7130/63.
316833. A HOR 2678/63.	316865. A S 7132/63.
316834. A HOR 2679/63.	316866. A S 7134/63.
316835. A HOR 2720/63.	316867. A S 7135/63.
316836. A HOR 2875/63.	316868. A S 7137/63.
316837. A HOR 2876/63.	316869. A S 7147/63.
316838. A HOR 2877/63.	316870. A S 7148/63.
316839. A HOR 2878/63.	316871. A S 7150/63.
316840. A HOR 2879/63.	316872. A S 7164/63.
316841. A HOR 2928/64.	316873. A S 7243/63.
316842. A HOR 2932/63.	316874. A S 7244/63.
316843. A HOR 2933/63.	316875. A S 7246/63.
316844. A HOR 2935/63.	316876. A S 7249/63.
316845. A HOR 2937/63.	316877. A S 7250/63.
316846. A HOR 3209/63.	316878. A S 7251/63.
316847. A HOR 3210/63.	316879. A S 7258/63.
316848. A S 7100/63.	316880. A S 7268/63.
316849. A S 7101/63.	316881. A S 7288/63.
316850. A S 7104/63.	316882. A S 7294/63.
316851. A S 7105/63.	316883. A S 7295/63.
316852. A S 7107/63.	316884. A S 7297/63.
316853. A S 7109/63.	316885. A S 7305/63.
316854. A S 7112/63.	316886. A S 7313/63.
316855. A S 7113/63.	

316887 and 316888.

From Angola. Seeds presented by J. Lima Pereira, Estacao Zootechnica Central, Ganda-Mariano Machado. Received Oct. 18, 1966.

316887. *BAPHIA MASSAIENSIS* Taub. Leguminosae.

316888. *CROTALARIA USARAMOENSIS* Baker f. Leguminosae.

316889 to 316893. AVENA SATIVA L. Gramineae. Common oats.

From Great Britain. Seeds presented by G. Jenkins, Plant Breeding Institute, Trumpington, Cambridgeshire. Received Oct. 18, 1966.

316889. Av 240. 'Blenda'.

316890. Av 6. 'Maris Quest'. 'Blenda'. X S 172.

316889 to 316893—Continued

316891. Av 7. 'Padarn'.

316892. Av 12. 'Powys'.

316893. Av 14. S 172.

316894 to 316902.

From Brazil. Seeds presented by Theodore Hymowitz, Instituto de Pesquisas, IRI, Campinas, Sao Paulo. Received Oct. 18, 1966.

316894 to 316896. *DESMODIUM UNCINATUM* (Jacq.) DC. Leguminosae.

316894. IRI 1162.

316895. IRI 1602.

316896. IRI 1937.

316897 to 316902. *DOLICHOS LABLAB* L. Leguminosae. Hyacinth-bean.

316897. IRI 1299.

316900. IRI 1371.

316898. IRI 1302.

316901. IRI 1737.

316899. IRI 1303.

316902. IRI 2148.

316903 and 316904. TRITICUM DURUM Desf. Gramineae.

Durum wheat.

From Lebanon. Seeds presented by Joseph Klaimi, Institut de Recherches Agronomiques, Tel-Amara par Rayak. Received Oct. 18, 1966.

316903. 'Hourani 27'.

316904. 'Tel-Amara-1'.

316905. TRITICUM DICOCCOIDES Koern.

From Israel. Seeds presented by Z. Gerechter-Amitai, National and University Institute of Agriculture, Rehovot. Received Oct. 18, 1966.

G-25.

316906 to 316908. TRITICUM (hybrid). Gramineae.

From Australia. Seeds presented by R. A. McIntosh, Department of Agriculture, University of Sydney, Sydney, New South Wales. Received Oct. 18, 1966.

Selections from Steinwedel W199 (*T. aestivum*) X W.C. 356 (*T. durum*).

Hexaploids with purple kernels.

316906. 1159.288.0 0.P.1.1.X.1.2. Probably homozygous. Carries Vernal Emmer stem rust resistance.

316907. 1159.288.18B.1.2.1.2.13. Probably homozygous. Carriers Vernal Emmer stem rust resistance and other Emmer genes for rust resistance.

316908. 1159.288.18B.1.2.1.2.3. Segregates for purple and amber kernels. Carries Vernal Emmer stem rust resistance and other genes for stem rust resistance.

316909 to 316912. PHASEOLUS VULGARIS L. Leguminosae.

Common bean.

From Australia. Seeds presented by P. I. Pryke, Plant Breeding Laboratory, Department of Agriculture, Burnley Gardens, Victoria. Received Oct. 18, 1966.

316909. 'Redlands Autumn Crop'. 316911. 'Stayleys Star'.

316910. 'Redlands Green Leaf'. 316912. 66/526.

316913 to 316924. CICER ARIETINUM L. Leguminosae. Chickpea.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Oct. 18, 1966.

316913. C-49.	316919. N.P. 53.
316914. G-24.	316920. N.P. 58.
316915. K-4.	316921. N.P. 100.
316916. K-5.	316922. Punjab-7.
316917. N.P. 28.	316923. R.S. 10.
316918. N.P. 52.	316924. T. 87.

316925 to 316927.

From Ceylon. Seeds presented by Royal Botanic Gardens, Peradeniya. Received Oct. 19, 1966.

316925. MUSSAENDA FRONDOSA L. Rubiaceae.
316926. MUSSAENDA SAMANA Jayaweera
316927. MUSSAENDA TRISTIGMATICA Cummins

316928 and 316929. HIBISCUS (hybrid) Malvaceae.

From the Union of Soviet Socialist Republics. Seeds presented by Feodor N. Roussanov, Botanical Gardens of the Academy of Sciences of the Uzbek, Tashkent. Received Oct. 19, 1966.

316928. Type 'Mac'. (02296 'Alenushka' × 02373 'Moskva').
316929. Type 'Piala'. (02175 × 02115).

316930. RUBUS GLAUCUS Benth. Rosaceae. Andes raspberry.

From Guatemala. Seeds collected by R. J. Knight, United States Plant Introduction Station, Miami, Fla. Collected July 27, 1966. Received Oct. 19, 1966.

'Mora'. Labor Ovalle Anexo, Quezaltenango. Fruit large, fine flavored, pleasantly aromatic. Resembles type cultivated commercially in Salvador. Species is apomictic.

316931 and 316932.

From Argentina. Seeds presented by Instituto de Botanica Agricola, Villa Udaondo-Castelar, Buenos Aires. Received Oct. 19, 1966.

316931. ARAUCARIA ANGUSTIFOLIA (Bertol.) Kuntze Pinaceae.	Brazilian araucaria.
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'Pino Brasil'.

316932. CEDRELA FISSILIS Vell. Meliaceae.

'Cedro de Misiones'.

316933 to 316935.

From Japan. Seeds presented by H. Kawada, Faculty of Agriculture, Miki-Cho, Kagawa-Ken. Received Oct. 19, 1966.

316933. HIBISCUS (hybrid) Malvaceae. (<i>H. mutabilis</i> × <i>H. coccineus</i>). Amphidiploid, 2n=138.	
316934. HIBISCUS COCCINEUS Walt. 2n=38.	Scarlet rosemallow.
316935. HIBISCUS MUTABILIS L. 2n=92.	Cotton rosemallow.

316936 to 316956.

From Brazil. Seeds presented by Theodore Hynowitz, Instituto de Pesquisas, IRI, Campinas, Sao Paulo. Received Oct. 19, 1966.

316936. CROTALARIA BRACHYSTACHYA Benth. Leguminosae.

IRI 1273.

316937 and 316938. CROTALARIA GRANTIANA Harv.

316937. IRI 1312.

316938. IRI 1316.

316939 and 316940. CROTALARIA LANCEOLATA E. Mey. Lance crotalaria.

316939. IRI 1089.

316940. IRI 1142.

316941. CROTALARIA PAULINA Schrank

IRI 1309.

316942 and 316943. CROTALARIA SALTIANA Andrews

316942. IRI 1064.

316943. IRI 1070.

316944 and 316945. CROTALARIA SPECTABILIS Roth Showy crotalaria.

316944. IRI 1003.

316945. IRI 1318.

316946 to 316948. CROTALARIA STIPULARIA Desv.

316946. IRI 1015.

316947. IRI 1253.

316948. IRI 1464.

316949. CROTALARIA USARAMOENSIS Baker

IRI 1045.

316950. CROTALARIA sp.

IRI 1005.

316951. CROTALARIA sp.

IRI 1029.

316952. CROTALARIA sp.

IRI 1086.

316953. CROTALARIA sp.

IRI 1121.

316954. CROTALARIA sp.

IRI 1127.

316955. CROTALARIA sp.

IRI 1238.

316956. CROTALARIA sp.

IRI 1413. (possibly *C. eriocarpa*).

316957. CARICA GOUDOTIANA Solms-Laub. Caricaceae.

From Venezuela. Seeds presented by the Faculty of Agronomy, Instituto de Genetica, Maracay. Received Oct. 19, 1966.

316958 to 316992.

From Korea. Seeds collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Numbered Oct. 20, 1966.

316958. ACER TRIFLORUM Komarov Aceraceae. Three-flower maple.

Col. No. K-397. Near Sinhung Temple, Sorak Dong, Kangwando. Deciduous tree to 8 meters high. Leaves trifoliate.

316959. ACTINIDIA POLYGAMA (Sieb. & Zucc.) Maxim. Dilleniaceae. Silivervine.

Col. No. K-316. Along trail to Paek Tam Sa, Mt. Sorak. Deciduous vine. Fruit small, cylindrical, green.

316960. ARISTOLOCHIA MANSHURIENSIS Komarov Aristolochiaceae.

Col. No. K-307. Along trail to Paek Tam Sa, Mt. Sorak. Scrambling vine. Fruits long, angular, green.

316961. BETULA ERMANNII Champ. Betulaceae.

Col. No. K-364. Along top of Mt. Sorak. Elevation 1,500 meters. Deciduous tree to 5 meters high. Bark whitish.

316962. CAULOPHYLLUM ROBUSTUM Maxim. Berberidaceae.

Col. No. K-353. In shade along trail up Mt. Sorak. Elevation 900 meters. Herbaceous perennial. Fruit (seed) blue.

316963. CELASTRUS ARTICULATUS Thunb. Celastraceae. Oriental bitter-sweet.

Col. No. K-335. Along trail up Mt. Sorak. Elevation 750 meters. Scrambling vine. Fruit in clusters, yellow.

316964. CRATAEGUS KOMAROVII Sargent Rosaceae.

Col. No. K-382. Near top of Mt. Sorak, in valley between two main peaks. Elevation 1,530 meters. Deciduous shrub to 2 meters high. Fruits bright red.

316965. CRATAEGUS PINNATIFIDA Bunge Chinese hawthorn.

Col. No. K-309. Paek Tam Sa, Mt. Sorak. Growing in open. Deciduous shrub to 4 meters high. Fruit in clusters, red.

316966. EUONYMUS SIEBOLDIANA Blume Celastraceae.

Col. No. K-389. Along trail on stream near Sorak Dong, Kangwando. Deciduous shrub to 2 meters high. Fruit pink.

316967. FORSYTHIA OVATA Nakai Oleaceae.

Col. No. K-396. Along stream near Sorak Dong, Kangwando. Deciduous shrub to 2 meters high. Fruit small, cordate.

316968. LILIUM sp. Liliaceae.

Col. No. K-367. (Received as *L. distichum*). Near top of Mt. Sorak. Growing in open on eastern slope. Elevation 1,530 meters. Bulbous perennial. Leaves whorled. Stem rooting, bulb scales jointed.

316969. LILIUM sp.

Col. No. K-330. (Received as *L. distichum*). Shady moist areas along trail of western slope of Mt. Sorak, between Ose Am and Pong Jeung Am. Elevation 810 meters. Whorled leaf, bulbous perennial to 1 meter high. Stems rooting. Scales jointed.

316970. LILIUM sp.

Col. No. K-327. (Received as *L. miquelianum*). Shady moist area along trail up Mt. Sorak, western slope. Elevation 750 meters. Whorled leaf, bulbous perennial. Stems rooting. Scales jointed.

316958 to 316992—Continued

- 316971 and 316972. *MAGNOLIA SIEBOLDII* K. Koch. Magnoliaceae. Oyama magnolia.
316971. Col. No. K-378. In protected area near summit of Mt. Sorak. Elevation 1,500 meters. Deciduous, small tree to 3 meters high. Fruit red.
316972. Col. No. K-303. Along trail to Paek Tam Sa, Mt. Sorak, in partial shade. Elevation 450 meters. Deciduous, small tree. Fruit red.
316973. *MALUS BACCATA* (L.) Moench Rosaceae. Siberian crabapple.
Col. No. K-393. Along trail beside stream near Sorak Dong, Kangwando. Deciduous tree to 6 meters high. Fruit small, red.
316974. *MALUS MICROMALUS* Makino Midget crabapple.
Col. No. K-297. Grounds of Forest Experiment Station, Seoul. Deciduous tree to 6 meters high. Fruit single; one cm. diameter; orange red when ripe.
316975. *PHOTINIA VILLOSA* (Thunb.) DC. Rosaceae.
Col. No. K-345. Along trail up Mt. Sorak. Elevation 1,020 meters. Deciduous shrub to 1.5 meters high. Fruit reddish.
316976. *PINUS DENSIFLORA* Sieb. & Zucc. Pinaceae. Japanese red pine.
Col. No. K-390. On rocky island in stream near Sorak Dong, Kangwando. Needleleaf evergreen tree. Collection made from small trees. Two needles in a fascicle.
316977. *PINUS KORAIENSIS* Sieb. & Zucc. Korean pine.
Col. No. K-359. Near Pong Jeung Am, Mt. Sorak. Elevation 1,350 meters. Needleleaf evergreen to 20 meters high. Needles 5 in a fascicle.
316978. *QUERCUS GLANDULIFERA* Blume Fagaceae. Glandbearing oak.
Col. No. K-385. Along stream near Sorak Dong, Kangwando. Deciduous tree to 5 meters high. Cup covers one-fourth of acorn.
- 316979 and 316980. *QUERCUS MONGOLICA* Fisch. ex Turcz.
316979. Col. No. K-328. Along trail up western slope of Mt. Sorak. Elevation 810 meters. Deciduous tree to 20 meters high. Leaves dentate. Cup covers one-third of acorn, bracts on cap with tubercles.
316980. Col. No. K-360. Near summit of Mt. Sorak. Elevation 1,530 meters. Deciduous tree to 4 meters high. Cup covers one-third of acorn.
316981. *QUERCUS* (hybrid)
Col. No. K-354. (*mongolica* one parent). In rocky area along trail up Mt. Sorak. Elevation 870 meters. Deciduous tree to 8 meters high. Leaves with dentate margins. Cup covers one-half of acorn.
- 316982 and 316983. *RHODODENDRON BRACHYCARPUM* var. *ROSAEFLORUM* Miyoshi Ericaceae.
316982. Col. No. K-374. Near summit of Mt. Sorak, growing in partial shade. Elevation 1,530 meters. Leather-leaved evergreen shrub to 2 meters high. Fruits terminal on branches.
316983. Col. No. K-322. On trail to summit of Mt. Sorak. Growing in shade. Elevation 870 meters. Evergreen shrub to 2 meters high. Leaves lepidote.
316984. *RHODODENDRON SCHILIPPENBACHII* Maxim. Royal azalea.
Col. No. K-404. In oak woods on Taek Wal Yong, near road west from Kang Nung. Deciduous shrub to 2 meters high.

316958 to 316992—Continued

316985. *SMILAX CHINA* L. Liliaceae. Greenbrier.

Col. No. K-399. On rocky cliff exposed to sea south of Yang Yang, Kangwando. Restricted thorny vine with leathery leaves. Fruit red.

316986. *SORBUS ALNIFOLIA* (Sieb. & Zucc.) Koch Rosaceae. Mountain-ash.

Col. No. K-384. Along streambed near Sorak Dong, Kangwando. Deciduous tree to 4 meters high. Fruit red.

316987. *SORBUS COMMIXTA* Hedl.

Col. No. K-346. Along trail up Mt. Sorak. Growing in open along streambed. Deciduous tree to 10 meters high. Leaves pinnately compound. Fruit red orange.

316988. *STYRAX JAPONICA* Sieb. & Zucc. Styracaceae. Japanese snowball.

Col. No. K-386. Along stream near Sorak Dong, Kangwando. Deciduous shrub to 3 meters high. Fruit ovate, green.

316989. *STYRAX OBASSIA* Sieb. & Zucc. Fragrant snowball.

Col. No. K-312. Along trail to Paek Tam Sa, Mt. Sorak. Small tree to 5 meters high. Fruit green, ovate with elongate tip.

316990 and 316991. *SYRINGA AMURENSIS* Rupr. Oleaceae. Manchurian lilac.

316990. Col. No. K-308. Along trail to Paek Tam Sa, Mt. Sorak. Growing in open shade. Deciduous shrub to 4 meters high.

316991. Col. No. K-395. Along stream near Sorak Dong, Kangwando. Deciduous shrub to 3 meters high. In fruit.

316992. *WEIGELA FLORIDA* (Bunge) A. DC. Caprifoliaceae.

Col. No. K-391. On rocky cliffs along stream near Sorak Dong, Kangwando. Deciduous shrub to 1 meter high. Fruit axillary, long and thin.

316993 to 317000. *SACCHARUM* (hybrid) Gramineae.

From the British West Indies. Cuttings presented by the British West Indies Station, Barbados. Received Oct. 19, 1966.

316993. B-5650. 316997. B-50135.

316994. B-5789. 316998. B-51410.

316995. B-5840. 316999. B-55228.

316996. B-6130. 317000. B-58114.

317001 to 317004. *SACCHARUM* (hybrid) Gramineae.

From the United States Virgin Islands. Cuttings presented by the Virgin Islands Agricultural Program, Kingshill, St. Croix. Received Oct. 20, 1966.

317001. 'Blue Ribbon'. 317003. 'White'.

317002. 'Mongolian'. 317004. B-4098.

317005 to 317007. *TRITICUM AESTIVUM* L. Gramineae.

From Yugoslavia. Seeds presented by Mirko Koric, Institute for Plant Breeding and Plant Production, Faculty of Agriculture, University, Zagreb. Received Oct. 21, 1966.

317005. No. 317. (Received as *T. vulgare* var. *floribunda*)

317006. No. 599. (Received as *T. vulgare* var. *ramifera*)

317007. No. 312/17. (Received as *T. vulgare* var. *tetrastichon*.)

317008 to 317029. PHASEOLUS VULGARIS L. Leguminosae.**Common bean.**

From Honduras. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Collected in April 1965. Numbered Oct. 21, 1966.

Market in Coyoles, Yoro Department.

317008. Col. No. 20695. Red.

317009. Col. No. 20696. Dark reddish.

317010. Col. No. 20697. Mixture of red and brownish red.

317011. Col. No. 20698. Red and brownish.

317012. Col. No. 20700. Dark red.

317013. Col. No. 20701. Mostly red, some black and dark red.

Market in Olanchito, Yoro Department.

317014. Col. No. 20702. Dark red.

317015. Col. No. 20703. Red.

317016. Col. No. 20704. 'Coloraditas'. Pink.

317017. Col. No. 20707. 'Zamorano'. Round, red.

317018. Col. No. 20708. Common, red.

317019. Col. No. 20709. No data.

317020. Col. No. 20710. Bright red.

317021. Col. No. 20711. Dark red.

317022. Col. No. 20712. Mixed red.

317023. Col. No. 20713. Small, mixed red.

317024. Col. No. 20715. Dark red.

317025. Col. No. 20716. Common, red.

317026. Col. No. 20717. Mixed red and black.

317027. Col. No. 20718. Pale red.

317028. Col. No. 20719. Mixed red.

317029. Col. No. 20720. 'Frijol blanco'. White.

317030 to 317035.

From the Canary Islands. Seeds presented by Jardin de Aclimatacion de La Orotava, Puerto de La Cruz, Tenerife. Received Oct. 21, 1966.

317030. CYTISUS CANARIENSIS (L.) Kuntze Leguminosae.

Canary broom.

No. 105. El Mocanillo.

317031. CYTISUS PALMENSIS (Christ) Hutchinson

No. 108. Bco. de Los Hombres.

317032. CYTISUS PROLIFERUS L. f.

Tagasaste.

No. 106. Aguamansa.

317033. CYTISUS ROSMARINIFOLIUS Masf.

No. 109. Tirajana.

317034. OENOTHERA ROSEA Soland. Onagraceae.

Rose sundrops.

No. 124. Puerto de la Cruz.

317035. ILEX CANARIENSIS Poir. Aquifoliaceae.

No. 733.

317036 to 317040.

From the Republic of South Africa. Seeds presented by National Botanic Gardens, Kirstenbosch, Newlands, Cape Province. Received Oct. 21, 1966.

317036. *APTENIA LANCIFOLIA* L. Bolus Aizoaceae.

No. 44.

317037 and 317038. *DIMORPHOTHECA PLUVIALIS* (L.) Moench Compositae.
Cape-marigold.

317037. No. 207.

317038. No. 208A.

317039. *DIMORPHOTHECA SINUATA* DC.

Cape-marigold.

No. 209.

317040. *ILEX MITIS* Radlk. Aquifoliaceae.

No. 327.

317041. *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Oct. 21, 1966.

I.W. 2613.

317042 to 317044. *ARMORACIA LAPATHIFOLIA* Gilib. Cruciferae.
Horseradish.

From Czechoslovakia. Scions presented by Research Institute for Plant Production, Prague-Ruzyne. Numbered Oct. 21, 1966.

317042. 'Malinsky'. Crinkled leaves.

317043. 'Malinsky No. 1'. Large roots.

317044. 'Malinsky No. 2'. Small roots.

317045 to 317060.

From Hawaii. Seeds presented by Peter P. Rotar, Agricultural Experiment Station, University of Hawaii, Honolulu. Numbered Oct. 21, 1966.

317045. *DESMODIUM CANUM* (Gmel.) Schinz & Thell. Leguminosae.

Kaimi-clover.

No. 5009. Originally from Tifton, Georgia. Ascending bushy shrub to 2 feet high.

317046 to 317048. *DESMODIUM DISTORTUM* (Aubl.) Macbride

317046. No. 4525. Originally from Guatamala. Ascending shrub to 8 feet high.

317047. No. 5390. Originally from Federal Experiment Station, Mayaguez, Puerto Rico. Ascending shrub to 8 feet high.

317048. No. 5408. Originally from Sisal Research Station, Milingano, Tanganyika. Ascending shrub to 8 feet high.

317049. *DESMODIUM HETEROCARPUM* (L.) DC.

No. 4530. Originally from Forest Research Institute, Dehra Dun, Uttar Pradesh, India. Decumbent shrub to 2 feet high.

317050. *DESMODIUM INTORTUM* (Mill.) Urb.

No. 4247. Originally from Turrialba, Costa Rica. Trailing vine to 25 feet long.

317051. *DESMODIUM SALICIFOLIUM* (Poir. ex Lam.) DC.

No. 5526. Originally from Sierra Leone. Decumbent shrub to 5 feet high.

317045 to 317060—Continued

317052 to 317060. *DESMODIUM TORTUOSUM* (Sw.) DC.

317052. No. 4348. Originally from University of Puerto Rico. Ascending shrub to 7 feet high.

317053. No. 4383. Originally from Imperial College of Tropical Agriculture, Trinidad, British West Indies. Ascending shrub to 8 feet high.

317054. No. 5050. Originally from St. Augustine, Trinidad, British West Indies. Ascending shrub to 8 feet high.

317055. No. 5333. Originally from Palmira Valley, Colombia. Ascending shrub to 8 feet high.

317056. No. 5400. Originally from U.S. Virgin Islands. Ascending shrub to 8 feet high. Similar to *D. tortuosum*.317057. No. 5401. Originally from U.S. Virgin Islands. Ascending shrub to 6 feet high. Similar to *D. tortuosum*.317058. No. 5502. Originally from U. S. Virgin Islands. Ascending shrub to 8 feet high. Similar to *D. tortuosum*.

317059. No. 5519. Originally from Commonwealth Scientific and Industrial Research Organization, Brisbane, Australia. Ascending shrub to 8 feet high.

317060. No. 5534. Originally from Lucknow, India. Ascending shrub to 8 feet high.

317061 to 317177. *CAJANUS CAJAN* (L.) Millsp. Leguminosae.

Pigeon-pea.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received October 24, 1966.

317061. I.C. 13057. 'Barmasi Tur'.	317082. N.P. 24.
317062. N.P. 1.	317083. N.P. 25.
317063. N.P. 2.	317084. N.P. 26.
317064. N.P. 3.	317085. N.P. 27.
317065. N.P. 4.	317086. N.P. 28.
317066. N.P. 5.	317087. N.P. 29.
317067. N.P. 6.	317088. N.P. 30.
317068. N.P. 8.	317089. N.P. 31.
317069. N.P. 9.	317090. N.P. 32.
317070. N.P. 10.	317091. N.P. 33.
317071. N.P. 12.	317092. N.P. 34.
317072. N.P. 13.	317093. N.P. 35.
317073. N.P. 14.	317094. N.P. 36.
317074. N.P. 15.	317095. N.P. 37.
317075. N.P. 17.	317096. N.P. 38.
317076. N.P. 18.	317097. N.P. 39.
317077. N.P. 19.	317098. N.P. 40.
317078. N.P. 20.	317099. N.P. 41.
317079. N.P. 21.	317100. N.P. 42.
317080. N.P. 22.	317101. N.P. 43.
317081. N.P. 23.	317102. N.P. 44.

317061 to 317177—Continued

317103. N.P. 45.	317141. PLA No. 54.
317104. N.P. 46.	317142. PLA No. 55.
317105. N.P. 47.	317143. PLA No. 58.
317106. N.P. 48.	317144. PLA No. 59.
317107. N.P. 49.	317145. PLA No. 62.
317108. N.P. 50.	317146. PLA No. 63.
317109. N.P. 51.	317147. PLA No. 65.
317110. N.P. 53.	317148. PLA No. 67.
317111. N.P. 54.	317149. PLA No. 68.
317112. N.P. 57.	317150. PLA No. 72.
317113. N.P. 59.	317151. PLA No. 74.
317114. N.P. 60.	317152. PLA No. 81.
317115. N.P. 61.	317153. PLA No. 87.
317116. N.P. 62.	317154. PLA No. 97.
317117. N.P. 64.	317155. PLA No. 98.
317118. N.P. 65.	317156. PLA No. 119.
317119. N.P. 66.	317157. PLA No. 121.
317120. N.P. 67.	317158. PLA No. 124.
317121. N.P. 68.	317159. PLA No. 126.
317122. N.P. 69.	317160. PLA No. 134.
317123. N.P. 70.	317161. PLA No. 137.
317124. N.P. 72.	317162. PLA No. 140.
317125. N.P. 73.	317163. PLA No. 142.
317126. N.P. 74.	317164. PLA No. 156.
317127. N.P. 77.	317165. PLA No. 158.
317128. N.P. 78.	317166. PLA No. 159.
317129. N.P. 79.	317167. PLA No. 162.
317130. N.P. 80.	317168. PLA No. 163.
317131. N.P. 82.	317169. PLA No. 165.
317132. N.P. 83.	317170. PLA No. 168.
317133. N.P. 84.	317171. PLA No. 170.
317134. N.P. 96.	317172. PLA No. 179.
317135. PLA No. 2.	317173. PLA No. 186.
317136. PLA No. 5.	317174. T. 1.
317137. PLA No. 46.	317175. T. 7.
317138. PLA No. 48.	317176. T. 17.
317139. PLA No. 51.	317177. T. 21.
317140. PLA No. 52.	

317178. *CEDRUS DEODARA* (Roxb.) Loud. Pinaceae.

From Great Britain. Plant purchased from Hillier and Sons, Winchester, England. Numbered Oct. 31, 1966.

'Pygmaea'.

317179. FRAGARIA VESCA L. Rosaceae. European strawberry.

From Great Britain. Plants presented by the East Malling Research Station, Maidstone Kent, England. Received Oct. 25, 1966.

Clone E.M. 1.

317180 to 317182.

From Great Britain. Plants purchased from Hillier & Sons, Winchester, England. Received Oct. 26, 1966.

317180. ACER FLABELLATUM Rehd. in Sarg. Aceraceae.

317181. QUERCUS ACUTA Thunb. Fagaceae. Japanese evergreen oak.

317182. QUERCUS VARIABILIS Blume

317183. PENNISETUM (hybrid). Gramineae.

From India. Plants presented by the Poona Agricultural College, Poona. Received Oct. 27, 1966.

EB-4.

317184. SACCHARUM (hybrid) Gramineae.

From Australia. Cuttings presented by the Bureau of Sugar Experiment Stations, Brisbane, Queensland. Received Oct. 28, 1966.

Q. 74.

317185. VICIA PEREGRINA L. Leguminosae.

From the Union of Soviet Socialist Republics. Seeds collected by agricultural explorers Quentin Jones, Crops Research Division, and Wesley Keller, Forage and Range, Research Branch Plant Industry Station, Beltsville, Md. Collected in June, 1965. Numbered Oct. 31, 1966.

Col. No. 202. Garcheretti, 90 km. east of Tbilisi, Ga. Annual, to 14 inches high.

317186. ZINGIBER OFFICINALIS Rosc. Zingiberaceae.

Jamaica ginger.

From the United States. Roots presented by the McCormick & Company, Baltimore, Md. Numbered Oct. 31, 1966.

Foreign source unknown.

317187. FRAGARIA (hybrid). Rosaceae. Strawberry.

From Germany. Plants presented by Sengana GmbH. & Co., Hamburg, Waldredder, Received Nov. 2, 1966.

'Sengana Precosana'.

317188 to 317314.

From Korea. Seeds collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Numbered Nov. 4, 1966.

317188. ABIES KOREANA Wilson Pinaceae. Korean fir.

Col. No. K-449. Near top of Mt. Halla, Cheju Island. Elevation 1,650 meters. Needleleaf evergreen to 4 meters high. Cones purple.

317189. ABIES NEPHROLEPIS (Trautv.) Maxim.

Col. No. K-381. Along trail on eastern slope of Mt. Sorak. Elevation 1,500 meters. Needleleaf evergreen tree to 3 meters high. Cones purplish.

317190. ACER PSEUDO-SIEBOLDIANUM Komarov Aceraceae.

Col. No. K-343. Along trail up Mt. Sorak. Elevation 840 meters. Small tree to 6 meters high. Good fall color.

317188 to 317314—Continued

317191. *ACER TRIFLORUM* Komarov Three-flower maple.
Col. No. K-355. Along trail up Mt. Sorak. Elevation 780 meters. Deciduous tree to 15 meters high. Leaves trifoliate.
- 317192 and 317193. *ACER TSCRONOSKII* var. *RUBRIPES* Komarov
317192. Col. No. K-344. Along trail up Mt. Sorak. Elevation 1,050 meters. Small tree to 4 meters high. Petioles red. Good fall color.
317193. Col. No. K-379. In area between two peaks at summit of Mt. Sorak. Elevation 1,500 meters. Deciduous tree to 2 meters high.
- 317194 and 317195. *ACER UKURUNDUENSE* Trautv. & Meyer
317194. Col. No. K-333. Along trail up Mt. Sorak. Elevation 960 meters. Small tree. Leaves slightly lobed and serrate.
317195. Col. No. K-380. Near summit of Mt. Sorak. Elevation 1,500 meters. Deciduous tree to 3 meters high.
317196. *AKEBIA QUINATA* Decne. Lardizabalaceae.
Col. No. K-469. In *Torreya* forest 25 km. east of Cheju City. Vine. Leaves digitately compound.
317197. *ALNUS MANSCHURICA* (Call.) Hand.-Mazz. Betulaceae.
Col. No. K-352. In open area along trail up Mt. Sorak. Elevation 840 meters. Deciduous small tree to 4 meters high. Fruit conelike.
317198. *AMPELOPSIS BREVIPEDUNCULATA* (Maxim.) Koehne Vitaceae.
Col. No. K-415. On trail up Cheju's Mt. Halla. Elevation 150 meters. Vine. Fruit bluish purple.
317199. *ANEMONE NARCISSIFOLIA* L. Ranunculaceae.
Col. No. K-376. In alpine area top of Mt. Sorak. Elevation 1,530 meters. Herbaceous perennial. Fruit in umbel.
317200. *ARISAEMA AMURENSE* Maxim. Araceae.
Col. No. K-361. On trail down eastern side of Mt. Sorak to O Saik. Elevation 1,290 meters. Cormous herbaceous perennial. Fruit red.
317201. *ARISAEMA JAPONICUM* Bl.
Col. No. K-351. Along trail up Mt. Sorak. Growing in moist shade. Elevation 870 meters. Cormous perennial. Fruit red orange.
317202. *ARISAEMA PENINSULAE* Nakai
Col. No. K-407. Mun Jae Hill between Jin Bu and Hoeng Song. Robust cormous perennial. Fruit red in very large head.
317203. *ARISAEMA* sp.
Col. No. K-457. Along trail on Mt. Halla, Cheju Island. Elevation 800 meters. Cormous perennial. Fruit red.
317204. *ARUNCUS AETHUSIFOLIUS* (Lév) Nakai Rosaceae.
Col. No. K-460. In alpine meadows, Mt. Halla, Cheju Island. Herbaceous perennial.
317205. *ASPARAGUS OLIGOCLONOS* Maxim. Liliaceae.
Col. No. K-400. On sandy beach south of Yang Yang, Kangwon Province. Herbaceous perennial. Fruit red.
317206. *ASPARAGUS SCHOBERIOIDES* Kunth.
Col. No. K-427. Along trail up Mt. Halla, Cheju, Island. Herbaceous perennial. Fruit translucent.

317188 to 317314—Continued

317207. *ASTER* sp. Compositae.

Col. No. K-440. In open alpine meadow, Mt. Halla, Cheju Island. Elevation 420 meters. Very low herbaceous perennial. Flowers radiate, blue.

317208. *BETULA CHINENSIS* Maxim. Betulaceae.

Col. No. K-365. Near summit of Mt. Sorak. Elevation 1,530 meters. Deciduous tree to 6 meters high. Leaves with serrate margins.

317209 and 217210. *BETULA ERMANNII* Champ.

317209. Col. No. K-447. Along trail on Mt. Halla, Cheju Island. Elevation 480 meters. Deciduous tree to 5 meters high. Branches spreading. Bark white.

317210. Col. No. K-459. Mt. Halla, Cheju Island, Just below summit. Elevation 570 meters. Deciduous "shrub" to 1 meter high. Bark white.

317211. *BETULA PLATYPHYLLA* var. *JAPONICA* (Miq.) Hara

Col. No. K-310. Along trail to Paek Tam Sa, Mt. Sorak. Growing in mixed deciduous forest. Deciduous tree to 15 meters high. Bark white to gray, exfoliating.

317212. *CARPINUS LAXIFLORA* Blume Betulaceae. Hornbeam.

Col. No. K-383. Along trail down eastern slope of Mt. Sorak. Elevation 1,410 meters. Deciduous tree to 15 meters high. Trunk ridged.

317213. *CELTIS SINENSIS* Pers. Ulmaceae.

Col. No. K-467. Growing in forest edge 25 km. east of Cheju City. Tree to 15 meters high.

317214. *CLEMATIS FLABELLATA* Nakai Ranunculaceae.

Col. No. K-372. Near summit of Mt. Sorak. Growing along trail. Elevation 1,530 meters. Restricted vine. Leaves entire.

317215 and 317216. *CLEMATIS KOREANA* Komar.

317215. Col. No. K-373. Near summit of Mt. Sorak. Growing on shrubs along trail. Elevation 1,530 meters. Deciduous vine. Leaves trifoliolate.

317216. Col. No. K-448. Near Crown Rock on Mt. Halla, Cheju Island. Elevation 480 meters. Deciduous vine.

317217. *CLEMATIS PANICULATA* Thunb. Sweet autumn clematis.

Col. No. K-405. Mun Jae Hill between Jin Bu and Hoeng Song. Deciduous vine. Fruit in panicles.

317218. *CLEMATIS PATENS* Morr. & Decne.

Col. No. K-325. Along trail up Mt. Sorak. Usually in open areas. Elevation 900 meters. Restricted vine to 2 meters high. Fruiting head large.

317219. *CLEMATIS TRICHOTOMA* Nakai

Col. No. K-301. Along side of trail to Paek Tam Sa, Mt. Sorak. Deciduous vine. Not seen in flower.

317220. *CLERODENDRUM TRICHOTOMUM* Thunb. Verbenaceae.

Harlequin glorybower.

Col. No. K-392. Along road to Sin Hung Sa, Sorak Dong, Kangwando. Deciduous small tree to 3 meters high. Fruit blue with red bracts.

317221. *CONVALLARIA KEISKEI* Miq. Liliaceae. Lily-of-the-valley.

Col. No. K-332. In moist shade along trail up Mt. Sorak. Elevation 960 meters. Herbaceous perennial. Fruit red.

317188 to 317314—Continued

317222. *CORNUS COREANA* Wanger. Cornaceae.

Col. No. K-435. In open area along trail on north slope of Mt. Halla, Cheju Island. Elevation 240 meters. Deciduous tree to 5 meters high. Fruit bluish, peduncles pink.

317223. *CORNUS KOUSA* Hance

Kousa dogwood.

Col. No. K-436. Along trail up Mt. Halla, Cheju Island. Elevation 1,000 meters. Deciduous tree to 6 meters high. Fruit red.

317224. *CORYDALIS HETEROCARPA* var. *JAPONICA* (Fr. & Sav.) Ohwi PAPAVERACEAE.

Col. No. K-342. In open field along trail up Mt. Sorak. Elevation 750 meters. Herbaceous perennial. Flowers yellow in spikes.

317225. *CRATAEGUS KOMAROVII* Sargent Rosaceae.

Col. No. K-369. Near summit of Mt. Sorak, growing in valley between two main peaks. Elevation 1,530 meters. Deciduous shrub to 2 meters high. Fruit bright red, shiny.

317226. *DAPHNIPHYLLUM MACROPODUM* Miq. EUPHORBIAEAE.

Col. No. K-432. Under *Carpinus* and oak along trail up Mt. Halla, Cheju Island. Elevation 900 meters. Broad-leaved evergreen shrub or tree to 6 meters high. Fruit bluish.

317227. *EUONYMUS MACROPTERUS* Rupr. CELASTRACEAE.

Col. No. K-337. Along trail up western slope of Mt. Sorak. Elevation 600 meters. Deciduous shrub to 2 meters high. Fruit red.

317228. *EURYA JAPONICA* Thunb. THEACEAE.

Col. No. K-430. In dense shade along trail up Mt. Halla, Cheju Island. Elevation 850 meters. Evergreen shrub to 2.5 meters high. Fruit black.

317229. *FORSYTHIA* sp. OLEACEAE.

Col. No. K-293. Grounds of Forest Experiment Station, Seoul. Deciduous shrub, branches mostly upright. Leaves dark green.

317230. *GENTIANA UCHIYAMAI* Nakai GENTIANACEAE.

Col. No. K-411. Mun Jae Hill between Jin Bu and Hoeng Song. Herbaceous perennial to $\frac{3}{4}$ meters high. Flowers blue.

317231. *HEMEROCALLIS* sp. LILIACEAE.

Col. No. K-439. On open slope near summit of Mt. Halla, Cheju Island. Elevation 480 meters. Herbaceous perennial.

317232. *HEMIPTOLEA DAVIDII* (Hance) Planch. ULMACEAE.

Col. No. K-402. At foot of Taekwalyong on road west from Kang Klung. Deciduous shrub to 2 meters high. Leaves small.

317233. *HYPERICUM ASCYRON* L. GUTTIFERAE.

Giant St.-Johns-wort.

Col. No. K-357. In open field along trail up Mt. Sorak. Elevation 780 meters. Herbaceous annual. Flowers yellow.

317234 and 317235. *ILEX CRENATA* f. *MICROPHYLLA* Rehd. AQUIFOLIACEAE.

317234. Col. No. K-442. In open alpine meadow, Mt. Halla, Cheju Island. Elevation 1,400 meters. Low, broad-leaved evergreen shrub. Fruit black.

317235. Col. No. K-426. Along trail up Mt. Halla, Cheju Island. Elevation 700 meters. Evergreen shrub to 1.5 meters high. Fruit black.

317236. *IRIS ENSATA* Thunb. IRIDACEAE.

Russian iris.

Col. No. K-408. Mun Jae Hill between Jin bu and Hoeng Song. Strap-leaved perennial. Not seen in flower.

317188 to 317314—Continued

317237. IRIS sp.

Col. No. K-394. Along stream edge near Sorak Dong, Kangwando. Strap-leaved perennial. Herbaceous.

317238. JUNIPERUS CHINENSIS var. SARGENTII Henry Pinaceae.

Col. No. K-458. Mt. Halla, Cheju Island. Elevation 1,900 meters. Prostrate coniferous evergreen. Fruit greenish.

317239. LINARIA JAPONICA Miq. Scrophylariaceae.

Col. No. K-398. On sandy beach south of Yang Yang, Kangwando. Herbaceous annual. Flowers yellow.

317240. LINDERA ERYTHROCARPA Makino Lauraceae.

Col. No. K-419. Along trail up Mt. Halla, Cheju Island. Elevation 600 meters. Deciduous shrub or small tree to 3.5 meters high. Leaves lance-elliptic. Fruit red.

317241. LINDERA OBTUSILOBA Blume

Col. No. K-315. Along trail to Paek Tam Sa, Mt. Sorak. Small tree to 4.5 meters high. Leaves lobed. Fruit red, ripening unevenly.

317242. LOBELIA SESSILIFLORA Lamb. Campanulaceae.

Col. No. K-409. Mun Jae Hill between Jin Bu and Hoeng Song. Herbaceous perennial to 1 meter high. Flowers spicate, blue.

317243. LONICERA SUBSESSILIS Rehd. Caprifoliaceae.

Col. No. K-350. Along trail up Mt. Sorak. Elevation 720 meters. Deciduous shrub to 1 meter high. Fruit red.

317244. LYSIMACHIA VULGARIS var. DAVURICA (Ledeb.) R. Kunth. Primulaceae.

Col. No. K-311. Along streambed on trail to Paek Tam Sa, Mt. Sorak. Growing in open. Herbaceous perennial. In fruit, terminal.

317245. MAACKIA FAURIEI (Levl.) Takeda Leguminosae.

Col. No. K-421. Along trail up Mt. Halla, Cheju Island. Elevation 650 meters. Deciduous small tree to 3 meters high. Fruit a pod in racemes. Leaves pinnately compound.

317246. MALUS sp. Rosaceae.

Col. No. K-416. In open trail up Mt. Halla, Cheju Island. Elevation 600 meters. Deciduous tree to 2.5 meters high. Fruit yellow.

317247. MELAMPYRUM SETACEUM (Maxim.) Nakai Scrophylariaceae.

Col. No. K-387. On rocky island in stream near Sorak, Kangwando. Growing under pines. Herbaceous annual. Flowers purple red in a spike.

317248. MELIOSMA OLDHAMII Miq. Sabiaceae.

Col. No. K-465. Plantation six km. inland and 25 km. east of Cheju City. Tree to 4 meters high. Fruit red, seed black.

317249. MITCHELLA UNDULATA Sieb. & Zucc. Rubiaceae.

Col. No. K-433. In shade along trail on north slope of Mt. Halla, Cheju Island. Elevation 900 meters. Prostrate broad-leaved evergreen vine. Fruit red.

317250. MOMORDICA sp. Cucurbitaceae.

Col. No. K-320. Hotel garden, Chunchon. Vining plant, monoecious. Fruit warty, yellow when ripe. Seed with red, fleshy aril. Flowers yellow.

317251. PENNISETUM JAPONICUM Trin. Gramineae.

Col. No. K-299. Streambed on trail to Baek Tam Sa, Mt. Sorak. Perennial grass. Inflorescence dark colored. Possible ornamental.

317188 to 317314—Continued

317252. *PHILADELPHUS SCHRENKII* Rupr. Saxifracaceae. **Schrenk mockorange.**
Col. No. K-313. Along trail to Paek Tam Sa, Mt. Sorak. Deciduous shrub to 2 meters high. In fruit.
317253. *PHOTINIA VILLOSA* (Thunb.) DC. Rosaceae.
Col. No. K-420. Along trail up Mt. Halla, Cheju Island. Elevation 600 meters. Shrub to 1.5 meters high. Fruit red.
317254. *PINUS DENSIFLORA* Sieb. & Zucc. Pinaceae. **Japanese red pine.**
Col. No. K-444. Around alpine meadow, Mt. Halla, Cheju Island. Needleleaf evergreen tree to 7 meters high.
- 317255 and 317256. *PINUS KORAIENSIS* Sieb. & Zucc. **Korean pine.**
317255. Col. No. K-318. Paek Tam Sa, Mt. Sorak. Elevation 600 meters. Five-needle pine to 20 meters high. Cones large. Seeds edible.
317256. Col. No. K-412. Forest of Chunchon Agricultural College, Chunchon. Five-needle pine to 20 meters high. Fruit large. Seeds edible.
317257. *PINUS PARVIFLORA* Sieb. & Zucc. **Japanese white pine.**
Col. No. K-319. Seoul National University, College of Agriculture Campus, Suwon. Five-needle pine to 7 meters high. Cones small.
317258. *PINUS THUNBERGII* Parl. **Japanese black pine.**
Col. No. K-413. Along trail up Mt. Halla, Cheju Island. Elevation 600 meters. Needle-leaf evergreen tree to 5 meters high.
317259. *PITTOSPORUM TOBIRA* (Willd.) Ait. Pittosporaceae. **Tobira.**
Col. No. K-461. Garden of Cheju Tourist Hotel. Cheju Island. Broad-leaved evergreen shrub to 1.5 meters high. Fruit green.
317260. *PLATYCARYA STROBILACEA* Sieb. & Zucc. Juglandaceae.
Col. No. K-294. Grounds of Forest Experiment Station, Seoul. Tree to 9 meters high. Fruits conelike. Leaves pinnately compound.
317261. *POLYGONUM ELLIPTICUM* Willd. ex Spreng. Liliaceae.
Col. No. K-445. In partial shade at edge of alpine meadow, Mt. Halla, Cheju Island. Elevation 1,500 meters. Herbaceous, low. Seed in terminal clusters.
317262. *POLYGONATUM INFLATUM* Komar. Liliaceae.
Col. No. K-356. In shady areas along trail up Mt. Sorak. Elevation 810 meters. Herbaceous perennial. Fruit blue.
317263. *PRIMULA MODESTA* Biss. & Moore Primulaceae.
Col. No. K-456. Mt. Halla, Cheju Island. Elevation 1,900 meters. Herbaceous plant living on exposed rock.
317264. *PRIMULA* sp. Primulaceae.
Col. No. K-455. Mt. Halla, Cheju Island. Elevation 1,800 meters. Herbaceous perennial.
317265. *PRUNUS PADUS* L. Rosaceae.
Col. No. K-363. Near summit of Mt. Sorak. Elevation 1,500 meters. Deciduous tree to 5 meters high. Fruit black, in racemes.
317266. *QUERCUS GLANDULIFERA* Blume Fagaceae.
Col. No. K-417. In open along trail up Mt. Halla, Cheju Island. Elevation 600 meters. Deciduous tree to 9 meters high. Fruit acorn one-fourth covered by cap.

317188 to 317314—Continued

317267. *RHAMNELLA FRANGULOIDES* (Maxim.) Weberbauer Rhamnaceae.

Col. No. K-418. Along trail on north side of Mt. Halla, Cheju Island. Elevation 600 meters. Deciduous shrub to 2.5 meters high. Fruit turns from yellow to red to black.

317268. *RHAMUS SCHNEIDERI* Leveille & Vaniot Rhamnaceae.

Col. No. K-314. Along trail to Paek Tam Sa, Mt. Sorak. Deciduous shrub to 2 meters high. Fruit small, black.

317269. *RHODODENDRON MUCRONULATUM* Turcz. Ericaceae.
Korean rhododendron.

Col. No. K-452. Mt. Halla, Cheju Island. Elevation 1,600 meters. Deciduous shrub to 1.5 meters high. Leaves not ciliate.

317270 and 317271. *RHODODENDRON MUCRONULATUM* var. *CILIATUM* Nakai

317270. Col. No. K-368. Near summit of Mt. Sorak. In open alpine habitat. Elevation 1,530 meters. Deciduous shrub to 1 meter high.

317271. Col. No. K-451. Mt. Halla, Cheju Island. Elevation 1,600 meters. Deciduous shrub to 1.5 meters high. Leaves ciliate.

317272. *RHODODENDRON YEDOENSE* var. *POUKHANENSE* Nakai

Col. No. K-453. Mt. Halla, Cheju Island. Elevation 1,300 meters. Deciduous shrub to 1 meter high. Leaves wine red in fall.

317273. *RHODODENDRON WEYRICHII* Maxim. Weyrichi azalea.

Col. No. K-422. In shade along trail up Mt. Halla, Cheju Island. Elevation 700 meters. Deciduous shrub to 1.5 meters high.

317274. *RODGERSIA PEDOPHYLLA* A. Gray Saxifragaceae.

Col. No. K-346. In moist area along trail up Mt. Sorak. Elevation 960 meters. Herbaceous perennial.

317275. *ROSA ACICULARIS* var. *GMELINII* (Bunge) C. Schneid. Rosaceae.

Col. No. K-323. Along stream edge on trail to Pong Jeung Am, Mt. Sorak. Elevation 960 meters. Deciduous shrub to 2 meters high. Canes armed, slender. Fruits elongate, pointed at blossom end, orange red.

317276. *ROSA WICHURAIANA* Crep.

Col. No. K-414. Along trail up Mt. Halla, Cheju Island. Elevation 600 meters. Prostrate shrub, spiny or thorny. Fruit red.

317277. *RUBUS TRIPHYLLUS* Thunb. Rosaceae.

Col. No. K-336. In open field along trail up Mt. Sorak. Elevation 720 meters. Spiny deciduous bramble. Fruit red. Torus yellow. Separates from torus.

317278. *SCABIOSA MANSENENSIS* Nakai Dispsaceae.

Col. No. K-358. At Pong Jeung Am on Mt. Sorak. Elevation 1,350 meters. Herbaceous perennial. Flowers blue.

317279. *SCUTELLARIA STRIGILLOSA* Hemsl. Labiatae.

Col. No. K-401. On sandy beach south of Yang Yang, Kangwando. Herbaceous perennial. Very low.

317280 and 317281. *SMILACINA JAPONICA* A. Gray Liliaceae.

317280. Col. No. K-334. In shade along trail up Mt. Sorak. Elevation 810 meters. Herbaceous perennial. Fruit red. Terminal.

317281. Col. No. K-348. In shady areas along trail up Mt. Sorak. Elevation 900 meters. Herbaceous perennial. Fruit red.

317188 to 317314—Continued

317282. *SOPHORA FLAVESCENS* Ait. Leguminosae.

Col. No. K-317. Along trail to Paek Tam Sa, Mt. Sorak. Dwarf shrub to 1 meter high. Leaves pinnately compound. Received as *Sophora angustifolia*.

317283. *SORBUS AMURENSIS* Koehne Rosaceae.

Col. No. K-295. Grounds of Forest Experiment Station, Seoul. Deciduous shrub or small tree to 5 meters high. Leaves pinnately compound. Fruit orange red.

317284. *SORBUS COMMIXTA* Hedl. Japanese mountain ash.

Col. No. K-450. Mt. Hallam Cheju Island. Elevation 1,650 meters. Deciduous tree to 4 meters high. Fruit red. Leaves pinnately compound.

317285 and 317286. *SPIRAEA FRITSCHIANA* Schn. Rosaceae.

317285. Col. No. K-300. Along edge of stream on trail to Paek Tam Sa, Mt. Sorak. Deciduous shrub to 1 meter high. Fruit in cyme.

317286. Col. No. K-339. Along edge of stream on trail up Mt. Sorak. Growing in open on rocks. Elevation 750 meters. Deciduous shrub.

317287. *SPIRAEA PUBESCENS* Turcz.

Col. No. K-338. Along stream on trail up Mt. Sorak. Deciduous shrub to 1 meter high. Fruit in cyme.

317288. *SPIRAEA SALICIFOLIA* L. Willowleaf spirea.

Col. No. K-410. Mun Jae Hill between Jin Bu and Hoeng Song. Deciduous shrub to 1 meter high.

317289. *STAPHYLEA BUMALDA* DC. Staphylaceae.

Col. No. K-388. Along trail on stream near Sorak Dong, Kangwando. Deciduous shrub to 2 meters high. Fruit bladdery.

317290. *STREPTOPUS AJANENSIS* Tiling ex Regel & Tiling Liliaceae.

Col. No. K-348a. In shady areas along trail up Mt. Sorak. Herbaceous perennial. Fruit red.

317291 and 317292. *SYRINGA PALABINIANA* Nakai Oleaceae.

317291. Col. No. K-370. Near summit of Mt. Sorak. Elevation 1,500 meters. Deciduous shrub to 2 meters high. Capsules punctate.

317292. Col. No. K-371. Near summit of Mt. Sorak. Elevation 1,500 meters. Deciduous shrub to 2 meters high. Capsules not punctate.

317293. *SYRINGA VELUTINA* Komarov

Col. No. K-296. Grounds of Forest Experiment Station, Seoul. Deciduous shrub to 2.5 meters high. Leaves dark green.

317294. *TAXUS CAESPITOSA* Nakai Taxaceae.

Col. No. K-377. In alpine area near summit of Mt. Sorak. Elevation 1,530 meters. Needleleaf evergreen shrub to 1 meter high. Needles flat. Fruit red, fleshy.

317295. *THALICTRUM TUBEROSUM* L. Ranunculaceae.

Col. No. K-347. Along trail up Mt. Sorak. Elevation 1,020 meters. Herbaceous perennial. Roots tuberous.

317296 and 317297. *THUJA KORAIENSIS* Nakai Pinaceae.

317296. Col. No. K-375. In alpine area near summit of Mt. Sorak, Kangwando. Elevation 1,530 meters. Evergreen tree to 3 meters high. Needles flattened.

317188 to 317314—Continued

317296 to 317297—Continued

317297. Col. No. K-331. Along trail on western slope of Mt. Sorak. Elevation 900 meters. Flat-leaved evergreen with somewhat ferny appearance. Either upright or trailing.

317298. *TILIA INSULARIS* Nakai Tiliaceae.

Col. No. K-290. Grounds of Forest Experiment Station, Seoul. Deciduous tree to 15 meters high. Fruit small.

317299. *TILIA MANDSHURICA* Rupr. & Maxim.

Col. No. K-291. Grounds of Forest Experiment Station, Seoul. Deciduous tree to 20 meters high. Fruit large.

317300. *TILIA OVALIS* Nakai

Col. No. K-292. Grounds of Forest Experiment Station, Seoul. Deciduous tree to 10 meters high. Fruit small coming to a dull point. Leaves small.

317301. *TORREYA NUCIFERA* Sieb. & Zucc. Taxaceae.

Col. No. K-464. Plantation 6 km. inland and 25 km. east of Cheju City. Needleleaf evergreen to 15 meters high.

317302. *TRIPTEROSPERMUM JAPONICUM* (Sieb. & Zucc.) Maxim. Gentianaceae.

Col. No. K-434. Along trail on Mt. Halla, Cheju Island. Elevation 900 meters. Trailing vine. Leaves mostly cordate to ovate. Fruit purple. Flowers whitish.

317303. *VACCINIUM JAPONICUM* Miq. Ericaceae.

Col. No. K-429. Along trail up Mt. Halla, Cheju Island. Deciduous shrub to 0.5 meter high. Fruit red.

317304. *VACCINUM OLDHAMII* Miq.

Col. No. K-425. In semishade along trail up Mt. Halla, Cheju Island. Elevation 800 meters. Deciduous shrub to 2 meters high. Fruit black in racemes.

317305. *VIBURNUM AWABUKII* C. Koch Caprifoliaceae.

Col. No. K-468. Clearing in Torreya Forest 25 km. east of Cheju City. Evergreen shrub to 4 meters high. Fruits red.

317306. *VIBURNUM EROSUM* Thunb.

Col. No. K-423. In shady areas along trail up Mt. Halla, Cheju Island. Elevation 800 meters. Deciduous shrub to 2 meters high. Fruit small, red, in cymes.

317307. *VIBURNUM EROSUM* var. *TAQUETII* (Levl.) Rehder

Col. No. K-437. Along trail up Mt. Halla, Cheju Island. Elevation 1,100 meters. Deciduous shrub to 2 meters high. Leaves lobed. Fruit red.

317308. *VIBURNUM KOREANUM* Nakai

Col. No. K-406. Mun Jae Hill between Jin Bu and Hoeng Song. In cutover area. Deciduous shrub to 1.5 meters high. Fruit yellow-pink.

317309. *VIBURNUM WRIGHTII* Miq.

Wright viburnum.

Col. No. K-341. Along trail up Mt. Sorak. Elevation 810 meters. Deciduous shrub to 2 meters high. Fruit bright shining red.

317310. *VICIA VENOSISSIMA* Nakai Leguminosae.

Col. No. K-349. Along trail up Mt. Sorak. Elevation 780 meters. Herbaceous perennial to 0.5 meter high. Fruit a pod.

317188 to 317314—Continued

317311. VIOLA sp. Violaceae.

Col. No. K-454. In alpine meadow, Mt. Halla, Cheju Island. Elevation 1,400 meters. Matted herbaceous plant.

317312. VITEX ROTUNDIFOLIA L. f. Verbenaceae.

Col. No. K-470. Along seashore in sand and sun 15 km. east of Cheju City. Subshrub to $\frac{3}{4}$ meter high. Flowers lavender blue. Leaves blue green.

317313. VITIS FLEXUOSA Thunb. Vitaceae.

Col. No. K-424. Along trail up Mt. Hall, Cheju Island. Elevation 700 meters. Deciduous vine. Fruits dark purple black, edible, tart.

317314. (Undetermined.) Compositae.

Col. No. K-471. On beach 15 km. east of Cheju City. Herbaceous perennial to 30 cm. high. Leaves yellow green. Flowers yellow.

317315. FRAGARIA (hybrid). Rosaceae. **Strawberry.**

From Denmark. Plants presented by the Spangsbjorg Forscke Station, Esbjerg. Received Nov. 8, 1966.

'Zefyr'.

317316 to 317320. ORYZA SATIVA L. Gramineae. **Rice.**

From the Dominican Republic. Seeds presented by the Department of Agriculture Research, Juma Rice Experiment Station, Juma. Received Nov. 8, 1966.

317316. 'Juma 1'.

317319. 'PH 411'.

317317. 'Juma 2'.

317320. 'Tono Brea 439'.

317318. 'Juma 3'.

317321 to 317324.

From Canada. Seeds presented by G. R. Boughton, Canada Department of Agriculture, Research Branch, Regina, Saskatchewan. Numbered Nov. 8, 1966.

317321. AGROPYRON ELONGATUM (Host) Beauv. Gramineae. **Tall wheatgrass.**

'Orbit'. Breeder seed.

317322. BROMUS INERMIS Leyss. Gramineae. **Smooth bromegrass.**

'Redpatch'. Canada Foundation No. 2.

317323. ELYMUS JUNCEUS Fisch. Gramineae. **Russian wildrye.**

'Sawki'. Breeder seed.

317324. LINUM USITATISSIMUM L. Linaceae. **Flax.**

'Noralta'. Registered No. 1.

317325 to 317331. ZEA MAYS L. Gramineae. **Corn.**

From Guatemala. Seeds presented by J. M. Hooper, United States Peace Corps, Guatemala City. Numbered Nov. 8, 1966.

Seeds from white cobs; grown on Guatemala Pacific coast.

317325. 'Arroz'. Kernel white, early-medium maturity.

317326. 'Dorado Tiquisate'. Kernel yellow, early-medium maturity.

317327. 'Guayaqueno'. Kernel, white, medium-late maturity.

317328. Kernel white, early maturity.

317325 to 317331—Continued

317329. Kernel yellow, early-medium maturity.

317330. Kernel yellow, medium maturity.

317331. Kernel black, medium maturity.

317332 to 317337. GLYCINE MAX (L.) Merr. Leguminosae.**Soybean.**

From the United States. Seeds grown at Iowa State University, Ames, Iowa. Original seeds from Hokkaido National Experiment Station, Sapporo, Japan. Numbered Nov. 8, 1966.

317332. 'Isuzu 9-7 na'.

317335. 'Koganeshiro 9-2 na'.

317333. 'Karikachi 8-28'.

317336. 'Shinsei 8-26'.

317334. 'Kitamishiro 9-11'.

317337. 'Suzunari 8-26 na'.

317338 to 317341.

From Finland. Plants and seeds presented by K. Multamaki, Agricultural Research Center, Department of Plant Breeding, Jokioinen. Numbered Nov. 8, 1966.

317338 and 317339. TRIFOLIUM MEDIUM Huds. Leguminosae.

Zigzag clover.

317338. No. 1. Susceptible to powdery mildew.

317339. No. 2. Resistant to powdery mildew.

317340 and 317341. TRIFOLIUM MEDIUM Huds.

Zigzag clover.

317340. 'Jokioinen'.

317341. 'Mietoinen'.

317342. CHLORIS GAYANA Kunth Gramineae. Rhodesgrass.

From Tanzania. Seeds presented by Livestock Breeding Station Mpwapwa. Numbered Nov. 8, 1966.

'Mpwapwa'.

317343 and 317344.

From Malagasy Republic. Seeds collected by P. A. Lemoine, United States Department of Agriculture survey team to Malagasy Republic, International Agricultural Development Service, Washington, D.C. Numbered Nov. 8, 1966.

317343. ORYZA SATIVA L. Gramineae.

Rice.

Sample No. 1. Collected at Tananarive.

317344. STYLOSANTHES GRACILIS HBK. Leguminosae.

Collected at Babetville.

317345 and 317346.

From Japan. Seeds presented by H. Kawada, Faculty of Agriculture, Miki-Cho, Kagawa-Ken. Numbered Nov. 8, 1966.

317345. HIBISCUS MOSCHEUTOS L. Malvaceae.

Common rosemallow.

2n=38.

317346. HIBISCUS × MUTA-MOSCHEUTOS Kuwada

'Ai-Fuyo'. (*H. mutabilis* × *H. moscheutos*). Amphidiploid. 2n=130.**317347 and 317348.**

From Switzerland. Seeds collected in St. Moritz and presented by Alma Zodiag, New York, N.Y. Numbered Nov. 8, 1966.

317347 and 317348—Continued

317347. *ERYNGIUM ALPINUM* L. Umbelliferae. **Bluetop eryngo.**

317348. *LEONTOPODIUM ALPINUM* Cass. Compositae. **Common edelweiss.**

317349 and 317350.

From the United States. Seeds produced at U. S. Plant Introduction Station, Glenn Dale, Md. Collected April, 1949 and presented by O. W. Norvell, Palo Alto, Calif. Numbered Nov. 8, 1966.

317349. *PHASEOLUS* sp. Leguminosae.

M 542. Original seed collected on the side of Volcan de Colima above Tonila, Jalisco, Mexico.

317350. *PHASEOLUS* sp.

M 570. Original seed collected on the side of Volcan de Colima above Tonila, Jalisco, Mexico.

317351 and 317352. CHLORIS GAYANA Kunth Gramineae.**Rhodesgrass.**

From Rhodesia. Seeds presented by Salisbury Research Station. Salisbury. Numbered Nov. 9, 1966.

Commercial certified seed.

317351. 'Giant'. From Lord Graham.

317352. 'Katambora'. Crop No. 132/01/M. T. Gubb.

317353 to 317387.

From Korea. Seeds collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Numbered Nov. 9, 1966.

317353. *ACER OKAMOTOANUM* Nakai Aceraceae.

Col. No. K-481. Edge of woods near Forestry greenhouse, Suwon. Deciduous tree to 7 meters high. Fruits green. Leaves palmately lobed.

317354. *ALNUS HIRSUTA* Turcz. Betulaceae. **Manchurian alder.**

Col. No. K-500. Mt. Kwan Ak, An Yang. Deciduous tree to 4 meters high. Leaves oval, rugose.

317355. *ALNUS JAPONICA* Sieb. & Zucc. **Japanese alder.**

Col. No. K-499. Mt. Kwan Ak, An Yang. Deciduous tree to 7 meters high. Fruits conelike. Leaves elliptic, serrate.

317356. *ALNUS MAYRII* Callier

Col. No. K-478. Growing along edge of road, Suwon. Deciduous tree to 8 meters high. Fruits conelike.

317357. *AMELANCHIER ASIATICA* (Sieb. & Zucc.) Endl. ex Walp. Rosaceae.

Col. No. K-479. In small arboretum woods near College of Agriculture campus, Suwon. Deciduous shrub or small multistemmed tree to 7 meters high. Fruit bluish.

317358. *BETULA CHINENSIS* Maxim. Betulaceae.

Col. No. K-498. Near top of Mt. Kwan Ak, An Yang. Elevation 600 meters. Deciduous tree to 3 meters high. Leaves ovate, serrate.

317359. *CALLICARPA JAPONICA* Thunb. Verbenaceae.

Japanese beautyberry.

Col. No. K-495. Mt. Kwan Ak, An Yang. Deciduous shrub to 1.5 meters high. Fruit purplish.

317353 to 317387—Continued

- 317360.** *CARPINUS CORDATA* Blume Betulaceae. **Heartleaf hornbeam.**
Col. No. K-501. Mt. Kwan Ak, An Yang. Deciduous tree to 6 meters high. Leaves elliptic, serrate.
- 317361.** *CLEMATIS APIFOLIA* DC. Ranunculaceae.
Col. No. K-489. Mt. Kwan Ak, An Yang. Deciduous vine. Leaves trifoliolate. Flowers small.
- 317362.** *CLEMATIS PANICULATA* Thunb. **Sweet autumn clematis.**
Col. No. K-490. Mt. Kwan Ak, An Yang. Deciduous vine. Leaves pinnately compound.
- 317363.** *CROTALARIA SESSILIFLORA* L. Leguminosae.
Col. No. K-477. In open sandy area, Suwon. Dwarf annual. Flowers blue, on spikes. Fruits brown, enclosed in papery husk.
- 317364.** *DISPORUM SESSILE* (Thunb.) Don ex Roem. & Schult. Liliaceae.
Col. No. K-508. In garden of Professor Lee Tchang Bok, Suwon. Herbaceous perennial. Fruit blue.
- 317365.** *FIRMIANA SIMPLEX* (L.) W. F. Wight Sterculiaceae. **Chinese parasol tree.**
Col. No. K-483. Growing on grounds of Buddhist Temple, Suwon. Deciduous tree to 10 meters high. Diameter 10 inches at breast height. Leaves large. Fruit borne on edge of bracts.
- 317366.** *HEMEROCALLIS* sp. Liliaceae.
Col. No. K-494. Mt. Kwan Ak, An Yang. Herbaceous perennial. No flower seen.
- 317367.** *MALUS BACCATA* (L.) Moench Rosaceae. **Siberian crabapple.**
Col. No. K-497. Mt. Kwan Ak, An Yang. Deciduous tree to 4 meters high. Fruit small, red.
- 317368.** *PICEA KOYAMAI* Shiras. Pinaceae. **Spruce.**
Col. No. K-507. On campus of College of Agriculture, Suwon. Needle-leaf evergreen tree to 10 meters high.
- 317369.** *PINUS DENSIFLORA* Sieb. & Zucc. Pinaceae. **Japanese red pine.**
Col. No. K-502. On campus of College of Agriculture, Suwon. Needle-leaf evergreen tree to 6 meters high. Multiple stems.
- 317370.** *PINUS KORAIENSIS* Sieb. & Zucc. **Korean pine.**
Col. No. K-210. Kwang Nung, Kyunggido. Cones from several trees in area. Needleleaf evergreen to 25 meters high. Needles in fascicles of 5. Fruit large. Seed hard, edible.
- 317371.** *PYRUS CALLERYANA* var. *FAURIEI* (C. Schneid.) Rehd. Rosaceae.
Col. No. K-475. Growing on very dry, sandy slope, Suwon. Deciduous shrub or tree to 1 meter high; spurs spiny-tipped. Fruit brownish, punctate.
- 317372.** *QUERCUS ACUTISSIMA* Carruthers Fagaceae. **Sawtooth oak.**
Col. No. K-482. In College of Agriculture forest, Suwon. Deciduous tree to 15 meters high. Leaves serrate. Acorns large.
- 317373 and 317374.** *QUERCUS ALIENA* Blume
317373. Col. No. K-484. In College of Agriculture forest, Suwon. Deciduous tree to 10 meters high. Leaves large, obovate with crenate margins. Cap covers one-fourth of acorn.

317353 to 317387—Continued

317373 and 317374—Continued

317374. Col. No. K-485. In College of Agriculture forest, Suwon. Deciduous tree to 10 meters high. Leaves large, obovate with crenate margins. Cap covers one-fourth of acorn. Later maturity than P.I. 317373.

317375 to 317377. *QUERCUS GLANDULIFERA* Blume **Glandbearing oak.**

317375. Col. No. K-486. In College of Agriculture forest, Suwon. Deciduous tree to 11 meters high. Leaves elliptic, margins serrate. Acorns elongate, cap covers one-fourth of acorn.

317376. Col. No. K-487. In College of Agriculture forest, Suwon. Deciduous tree to 11 meters high. Leaves elliptic, margins serrate. acorns shorter than P.I. 317375.

317377. Col. No. K-488. Mt. Kwan Ak, An Yang. On cutover, eroded, hillside. Deciduous small tree to 2 meters high. Leaves narrow elliptic, serrate. Acorns small.

317378. *RHODODENDRON MUCRONULATUM* Turcz. Ericaceae. **Korean rhododendron.**

Col. No. K-492. Growing on exposed slopes of Mt. Kwan Ak, An Yang. Deciduous shrub to 2 meters high.

317379. *RHODODENDRON DAURICUM* var. *MUCRONULATUM* (Turcz.) Maxim. **Korean rhododendron.**

Col. No. K-506. In garden of Professor Lee Tchang Bok, Suwon. Deciduous shrub to 1 meter high. Flowers white.

317380. *RHODODENDRON SCHLIPPENBACHII* Maxim. **Royal azalea.**

Col. No. K-493. Growing on exposed slopes of Mt. Kwan Ak, An Yang. Deciduous shrub to 2 meters high.

317381. *ROSA MAXIMOWICZIANA* Regel Rosaceae.

Col. No. K-476. Growing in sandy soil in pine woods, Suwon. Deciduous thorny, prostrate shrub. Fruit red.

317382 and 317383. *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**

317382. Col. No. K-503. Market in Suwon. Seed black.

317383. Col. No. K-504. Market in Suwon. Seed white.

317384. *SORBUS ALNIFOLIA* (Sieb. & Zucc.) Koch Rosaceae. **Mountain-ash.**

Col. No. K-496. Mt. Kwan Ak, An Yang. Deciduous shrub to 2.5 meters high. Fruit red.

317385. *STEWARTIA KOREANA* Nakai Theaceae.

Col. No. K-480. In small arboretum area near College of Agriculture campus, Suwon. Deciduous tree to 10 meters high. Bark tan, exfoliating on trunk.

317386. *TRICHOSANTHES* sp. Cucurbitaceae.

Col. No. K-519. Growing on shrubs and trees, Kurume City, Japan. Annual vine. Fruits orange red, tapered at both ends. Seeds dark brown with "wings." Fruit persistent.

317387. (Undetermined.) Leguminosae.

Col. No. K-474. Growing in open, sandy area, Suwon. Subfruticose perennial. Leaves pinnately compound.

317388. SACCHARUM (hybrid) Gramineae.

From India. Cuttings presented by the Sugarcane Breeding Institute, Coimbatore. Received Nov. 9, 1966.

I.A. 1481. Grown at the Regional Sugarcane Substation, Olavakkot, Palghat, Kerala State.

317389 to 317504.

From Afghanistan. Seeds purchased from Reading University Exploration Society, The Orchard, Chalk Lane, East Horsley, Surrey, England. Numbered Nov. 14, 1966.

317389. AEGILOPS sp. Gramineae.

No. 103. Three miles west of Obek. Elevation 4,300 feet. Bottom of dry streambed on edge of wheat field.

317390. AEGILOPS sp.

No. 211. Forty-six km. north of Herat. Elevation 4,700 feet. Dry road bank. Locally common.

317391. AEGILOPS sp.

No. 238. Ten miles east of Armalik. Elevation 5,400 feet. Edges of wheat field. Common.

317392. AEGILOPS sp.

No. 337. Four miles southeast of Qala Nau. Elevation 3,200 feet. Dry hillside. Locally common.

317393. AEGILOPS sp.

No. 355. Eleven miles southeast of Qala Nau. Elevation 3,500 feet. Separated from threshed wheat No. 354. Said to be used as animal food.

317394. AEGILOPS sp.

No. 378. Eighteen miles northwest of Qaddis, 7 miles southwest of Qala Nau. Elevation 3,500 feet. Steep slope, dry banks between fields. Locally common.

317395. AEGILOPS sp.

No. 422. Seven and one half miles east of Karock. Elevation 4,000 feet. Roadside on dry bank of irrigation ditch. Locally common.

317396. AEGILOPS sp.

No. 1514. Four miles west of Kunduz. Semidesert plain. Common.

317397. AEGILOPS sp.

No. 1519. Forty-eight miles west of Kunduz. Elevation 2,100 feet. Dry hillside on edge of desert. Common.

317398. AEGILOPS sp.

No. 1590. *A. cylindrica* type. Five miles southwest of Haibak. Elevation 3,700 feet. Dry roadside. Common.

317399. AEGILOPS sp.

No. 1592. *A. trinicialis* type. Ten miles southwest of Haibak. Elevation 3,600 feet. Dry watercourse. Locally very common.

317400. AEGILOPS sp.

No. 1593. *A. squarrosa* type. Ten miles southwest of Haibak. Wild and mixed with wheat. Chaff used for cattle food. Moderately common.

317401. AGROPYRON sp. Gramineae.

No. 146. Safed Koh Mountains. Three miles west of Besha. Elevation 8,500 feet. Sparse on mountainside.

317389 to 317504—Continued

317402. AGROPYRON sp.

No. 159. Foothills of Safed Koh Mountains, 3 miles west of Besha. Elevation 5,900 feet. Wet soil along stream; to 30 cm. high.

317403. EREMOPYRUM BUONAPARTIS var. SUBLANUGINOSUM (Drob.) Meld. Gramineae.

No. 189. Twenty-two km. north of Herat. Roadside. Elevation 4,200 feet. Small dry streambed. Fairly common.

317404. AGROPYRON sp. Gramineae.

No. 196. Forty km. north of Herat. Elevation 4,900 feet. Generally distributed in valleys and hills. Nonhairy.

317405. AGROPYRON sp.

No. 224. Five miles west of Armalik. Elevation 4,800 feet. Generally distributed in uncultivated, dry areas.

317406. AGROPYRON sp.

No. 405. Twelve miles southeast of Yaklak. Elevation 7,100 feet. Irrigated field. Fairly common.

317407. EREMOPYRUM BUONAPARTIS var. SUBLANUGINOSUM (Drob.) Meld. Gramineae.

No. 401. South of Herat, 110 miles. Elevation 4,500 feet. Dry, rocky hillside. Locally common.

317408. AGROPYRON sp. Gramineae.

No. 561. Fifteen km. east of Besha. Elevation 5,200 feet. On dry banks of Hari Rud River. Moderately common.

317409. AGROPYRON sp.

No. 699. Seven km. west of Qala Shaharak. Elevation 7,500 feet. On banks of dry irrigation ditch. Moderately common.

317410. AGROPYRON sp.

No. 769. 'Qhaav'. Ten miles east of Shaharak. Elevation 8,200 feet. Locally common along streambanks.

317411. EREMOPYRUM BUONAPARTIS var. SUBLANUGINOSUM (Drob.) Meld. Gramineae.

No. 942. 'Alaf'. Seven miles west of Chakhcharan, (Qala Qausi), north side of Hari Rud River. Elevation 7,200 feet. Weed in wheat stand. Irrigated. Moderately common.

317412. AGROPYRON sp. Gramineae.

No. 1218. Fourteen miles west of Panjao. Elevation 10,000 feet. Dry hillside. Moderately common.

317413. AGROPYRON sp.

No. 1224. 'Alaf'. Thirteen miles north of Panjao. Elevation 10,000 feet. Dry roadside. Locally common.

317414. AGROPYRON sp.

No. 1414. Eight miles east of Shufur Shah village. Elevation 5,500 feet. Damp rocky roadside cliff. Locally common.

317415. EREMOPYRUM BUONAPARTIS (Spreng.) Nevski var. BUONAPARTIS Gramineae.

No. 1467. 'Alaf'. Five miles south of Pul-I-Khumri; flood plain of Surkhhab River. Elevation 2,600 feet.

317389 to 317504—Continued

317416. *AGROPYRON CANINUM* (L.) Beauv. Gramineae.

No. 1523. Forty-eight miles west of Kunduz. Dry hillside on edge of desert. Elevation 2,100 feet. Both hairy and nonhairy. Common.

317417. *BRACHYPODIUM DISTACHYON* (L.) Beauv. Gramineae.

No. 1547. 'Alaf'. Balkh, grounds of old Mosque. Dry waste land. Locally fairly common.

317418. *EREMOPYRUM TRITICEUM* (Gaertn.) Nevski Gramineae.

No. 1930. Thirty miles west of Jalalabad. Elevation 2,500 feet.

317419. *AGROSTIS SEMIVERTICILLATA* (Forsk.) Christ. Gramineae.

No. 167. Foothills of Safed Koh, 3 miles west of Besha. Elevation 6,100 feet. Only by stream in damp soil. Locally uncommon. To about 30 cm. high.

317420. *BROMUS MACROSTACHYS* Desf. Gramineae.

No. 190. Twenty-two km. north of Herat. Elevation 4,200 feet. Small dry streambed. Common.

317421. *BROMUS TECTORUM* L.

No. 488. Hot springs, 10 miles north of Obek. Dry side of deep valley. Elevation 5,000 feet. Fairly common.

317422. *BROMUS SERICEUS* Drob.

No. 1229. 'Alaf'. Twenty-five miles north of Oanjao. Elevation 9,500 feet. Irrigated field. Probably cultivated.

317423. *CICER* sp. Leguminosae.

No. 1711. 'Naghood'. Ten miles west of Kandahar. Elevation 3,400 feet. Grown as crop for human consumption.

317424. *ERAGROSTIS* sp. Gramineae.

No. 507. Two miles west of Obek. Elevation 4,300 feet. Growing on edge of irrigation ditch. Uncommon.

317425. *FESTUCA* sp. Gramineae.

No. 1156. 'Alaf'. Seventeen miles east of Qala Sakawa. Elevation 10,000 feet. On dry, steep hillside above wheatfield. Moderately common.

317426. *HEDYSARUM* sp. Leguminosae.

No. 177. North side of river, 4 miles west of Besha. Elevation 4,800 feet. Weed in wheat stack. Moderately common.

317427. *HORDEUM SPONTANEUM* C. Koch Gramineae.

No. 334. Four miles southeast of Qala Nau. Elevation 3,200 feet. Wild on dry steep hillside. Common.

317428. *HORDEUM* sp.

No. 108a. Three miles west of Obek. Elevation 4,700 feet. Weeds around wheatfield.

317429. *HORDEUM GLAUCUM* Steud.

No. 115. 'Alaf'. Near Barrigabuf. Elevation 4,200 feet. Growing under grapevines.

317430. *HORDEUM* sp.

No. 149. Safed Koh Mountains, 3 miles west of Besha. Elevation 7,500 feet. Wild above stream. To 25 cm. high. Uncommon.

317431. *HORDEUM* sp.

No. 155. Foothills of Safed Koh. Three miles west of Besha. Elevation 5,000 feet. Growing along streambank. To 80 cm. high. Uncommon.

317389 to 317504—Continued

317432. HORDEUM sp.

No. 169. Foothills of Safed Koh. Three miles west of Besha. Elevation 5,900 feet. Wild on dry slopes above stream. Locally common. To 100 cm. high.

317433. HORDEUM sp.

No. 198. Forty km. north of Herat. Elevation 4,900 feet. Fairly common in dry habitat.

317434. HORDEUM sp.

No. 327. One mile west of Qala Nau. Elevation 3,000 feet. Dry roadside, also as weed in wheat stack. Locally common.

317435. HORDEUM sp.

No. 407. Twelve miles southeast of Yakak. Elevation 7,100 feet. Dry roadside wheat field. Locally common.

317436. HORDEUM sp.

No. 654. Three miles south of Tagao Ishlan river valley, two miles east of Qala Hissar. Elevation 7,800 feet. On steep dry mountainside. Uncommon.

317437. KOELERIA ARGENTEA Griseb. Gramineae.

No. 491. Hot springs, 10 miles north of Obek. Elevation 5,600 feet. Steep, dry hillside of narrow valley. Uncommon.

317438 to 317443. LATHYRUS SATIVUS L. Leguminosae. Grass peavine.

317438. No. 113. Tunian. Elevation 4,100 feet. In wheat stack.

317439. No. 133. 'Mushak'. Eight miles east of Obek. Elevation 4,500 feet. Cultivated in irrigated field near Hari Rud River.

317440. No. 174. 'Mashing'. North side of Hari Rud. Four miles west of Besha. Elevation 4,800 feet. Cultivated.

317441. No. 178. 'Mashing'. North side of Hari Rude River. Four miles north of Besha. Elevation 4,800 feet. Weed in wheat stack. Common.

317442. No. 546. One mile east of Dakhan. Elevation 5,100 feet. Weed in wheat stack. Fairly common.

317443. No. 1921. 'Potak'. Thirty-nine miles south of Farkhar village, at Orsoj. Elevation 6,000 feet. Being milled with barley; used for bread. Grown as a crop; *not* a weed.

317444. LATHYRUS sp.

No. 147. Tributary of Hari Rud River. Three miles west of Besha. Weed in wheat stack.

317445. LATHYRUS sp.

No. 173. 'Maschak'. North side of Hari Rude River. Four miles west of Besha. Elevation 4,800 feet. Cultivated type. In wheat stack.

317446. LATHYRUS sp.

No. 508. Two miles west of Obek. Elevation 4,300 feet. Roadside. Locally frequent.

317447. LATHYRUS sp.

No. 522. Twenty miles west of Besha. Elevation 4,600 feet. Weed in wheat stack. Uncommon.

317448. LATHYRUS sp.

No. 1352. 'Mushang'. Four miles north of Gandak. Elevation 7,400 feet. Irrigated field. In separate stack for animal consumption.

317389 to 317504—Continued

317449. *LENS CULINARIS* Medic. Leguminosae. **Lentil.**
No. 1456. 'Mushak or Mushung'. Sixty-six miles north of Kabul, Salang Pass. Elevation 7,900 feet. Moderately common.
317450. *LOLIUM PERSICUM* Boiss. & Hohen. Gramineae.
No. 853. 'Alaff'. Tarbulock, 35 miles northeast of Qala Shaharak. Elevation 8,700 feet. In wheatfields and along paths. Locally common.
- 317451 and 317452. *LOLIUM RIGIDUM* Gaud. **Wimmera ryegrass.**
317451. No. 135. Eight miles east of Obek near road. Elevation 4,500 feet. Bank of irrigation ditch.
317452. No. 183. North side of Hari Rud River, four miles west of Besha. Elevation 4,800 feet. By stream; damp conditions. Common.
- 317453 to 317460. *MEDICAGO SATIVA* L. Leguminosae. **Alfalfa.**
317453. No. 267. Eleven miles east of Armalik. Elevation 5,500 feet. Irrigated, cultivated valley floor. Weed in wheat crop.
317454. No. 371. At Qaddis. Elevation 4,100 feet. From wheat stack. Common.
317455. No. 402. Eleven miles southeast of Yakak. Elevation 7,200 feet. Weed in wheat stack.
317456. No. 503. Eight miles north of Obek. Elevation 4,700 feet. In wheat stack. Relatively common. Used as horse feed.
317457. No. 506. Two miles west of Obek. Elevation 4,300 feet. Growing by roadside on edge of barleyfield. Common.
317458. No. 671. 'Alaf'. Three miles south of Tangi Azao. Elevation 7,300 feet. On banks of Tagao Ishlan River. In wheat stack. Irrigated. Moderately common.
317459. No. 838. Thirty-six miles southeast of Dasht-I-Pam, on Taiwara Road. Elevation 8,600 feet. In wheat stack. Relatively common.
317460. No. 1158. Twenty miles east of Qala Sakawa. Elevation 9,900 feet. Irrigated valley. Grown for winter forage.
317461. *MELILOTUS* sp. Leguminosae.
No. 623. Tagao Ishlan River, 2 miles east of Qala Hissar. Elevation 7,200 feet. Wild, on river bank. Locally common.
317462. *PANICUM* sp. Gramineae.
No. 579. Two and one-half miles east of Margha. Elevation 6,500 feet. Dry steep mountainside. Locally common.
- 317463 to 317465. *PHASEOLUS AUREUS* Roxb. Leguminosae. **Mungbean.**
317463. No. 1413. Three miles west of Ghorband. Elevation 6,700 feet. Main crop in irrigated field.
317464. No. 1648. 'Mush'. Sixty-three miles southwest of Ghazni. Elevation 6,800 feet. Grown as main crop.
317465. No. 1680. Ten miles west of Kandahar. Elevation 3,300 feet. In separate stack of wheat.
317466. *POLYPOGON* sp. Gramineae.
No. 139. Three miles west of Besha. Elevation 4,700 feet. On banks of Hari Rud River. Uncommon.
317467. *POLYPOGON* sp.
No. 396. Ten miles southeast of Yakhak. Elevation 7,400 feet. In damp soil by stream. To 40 cm. high. Locally common.

317389 to 317504—Continued

- 317468 to 317473. *POA BULBOSA* L. Gramineae. **Bulbous bluegrass.**
 317468. No. 108b. Three miles west of Obek. Elevation 4,300 feet. As weeds around wheatfield.
 317469. No. 111. Three miles west of Obek. Elevation 4,300 feet. Growing beside wheatfield on arid land.
 317470. No. 250. Ten miles east of Armalik. Elevation 5,400 feet. Growing near dry stream. To 20 cm. high. Locally fairly common.
 317471. No. 304. Thirty-four miles northeast of Armalik. Elevation 6,900 feet. Dry streambed. Locally common.
 317472. No. 652. Three miles south of Tagoa Ishlan River, 2 miles east of Qala Hissar. Elevation 7,900 feet. On bottom of dry streambed. Moderately common.
 317473. No. 1085. 'Alaf'. Daulat Yar, on steep, dry river banks. Elevation 8,100 feet. To 20 cm. high. Moderately common locally.
317474. *STIPA* sp. Gramineae.
 No. 777. Ten miles east of Qala Shaharak. On dry hillside near road. Long-curved, hairy awn, head enclosed in leaf sheaths. Uncommon.
317475. *TAENIATHERUM CRINITUM* (Schreb.) Nevski Gramineae.
 No. 153. Foothills of Safed Koh. Elevation 5,100 feet. On sides and tops of hills. Locally common. About 15 cm. high.
317476. *TAENIATHERUM CRINITUM* (Schreb.) Nevski
 No. 489. Hot Spring, 10 miles north of Obek. Elevation 5,600 feet. On dry side of deep, narrow valley. Fairly common.
317477. *TAENIATHERUM* sp.
 No. 776. Ten miles east of Qala Shaharak. Elevation 8,200 feet. On dry hillside near road. Similar to *Hordeum spontaneum* with some *Secale* characters. Long red anthers. Locally fairly common.
317478. *TRIFOLIUM REPENS* L. Leguminosae. **White clover.**
 No. 903. Twenty-eight miles northeast of Dasht-I-Pam. Elevation 8,700 feet. On damp, steep, stream bank. Creeping prostrate clover, white flower. Forming complete ground cover. Locally common.
317479. *TRIFOLIUM* sp.
 No. 158. Foothills of Safed Koh, three miles west of Besha. Growing by stream. Widely distributed.
317480. *TRIFOLIUM* sp.
 No. 179. North of Hari Rud River, four miles west of Besha. Elevation 4,800 feet. On banks between ricefields. Common.
317481. *TRIFOLIUM* sp.
 No. 370. Qaddis. Elevation 4,200 feet. Wild; white flower. Growing in profusion in Governors "garden," on edge of dry irrigation ditch.
317482. *TRIFOLIUM* sp.
 No. 1009. 'Shaftal'. Qala Qausi. Elevation 7,500 feet. Winter forage with lucerne, grass, bean, etc.
317483. *TRIFOLIUM* sp.
 No. 1027. 'Shaftal'. Twelve miles east of Qala Qausi. Elevation 7,600 feet. Blue flowers. Winter forage. Irrigated field.
317484. *TRIFOLIUM* sp.
 No. 1929. No data.

317389 to 317504—Continued

317485 to 317489. *TRITICUM AESTIVUM* L. Gramineae.

317485. No. 277. 'Gondum'. Seventeen miles east of Armalik. Elevation 6,100 feet. Irrigated. Fairly common.

317486. No. 990. 'Gondum Sividak'. Kilmin. Elevation 9,600 feet. Hairy, white, medium length awn. Moderately common. Irrigated.

317487. No. 1064. 'Gondum Sifidak'. Daulat Yar. Elevation 8,100 feet. Irrigated valley fields. White, lax, hairless, long awn.

317488. No. 1105. 'Gondum Kalak'. Garmao village. Elevation 9,100 feet. Irrigated hillsides. White, lax, hairy, very short curved awn. Common in stacks.

317489. No. 1427. 'Gondum Sifidak'. Seven miles east of Jalrez. Elevation 8,400 feet. Irrigated valley fields. Fairly uncommon in stack.

317490. *TRITICUM COMPACTUM* Host Club wheat.

No. 1108. 'Gondum Kalak'. Garmao village. Elevation 9,100 feet. Irrigated hillsides. White, very compact, hairless, very short awn. Uncommon.

317491 to 317495. *TRITICUM POLONICUM* L. Polish wheat.

317491. No. 918. 'Gondum Ishtur'. Seven miles west of Chakhcharan, (Qala Qausi). North side of Hari Rud River. Elevation 7,200 feet. Compact, white, hairy, very long, dark awns. Irrigated. Uncommon.

317492. No. 919. 'Gondum Ishtur'. Seven miles west of Qala Qausi, north side of Hari Rud River. Elevation 7,200 feet. Dark, lax head; hairy white, very long awns. Irrigated. Very uncommon.

317493. No. 980. 'Gondum Ishtur'. At Kilmin. Elevation 6,900 feet. Hairy, brown or one-half black awns. Irrigated. Moderately common.

317494. No. 981. 'Gondum Ishtur'. At Kilmin. Elevation 6,900 feet. Hairy, black awns. Irrigated. Moderately common.

317495. No. 1338. 'Gondum Joharikoton'. Bamian, near hotel. Elevation 8,500 feet. Irrigated field. Common.

317496. *TRITICUM* sp.

No. 315. Thirty-eight miles northeast of Armalik. Elevation 5,400 feet. Unirrigated plateau fields. Rare inclusion in stack.

317497 and 317498. *VICIA ERVILIA* (L.) Willd. Leguminosae.

Bitter vetch.

317497. No. 1008. 'Shafhal'. Qala Qausi. Elevation 7,500 feet. Small, bean. Winter forage with alfalfa clover and grass.

317498. No. 1228. Twenty-five miles north of Panjao. Elevation 9,500 feet. Used with grass and crucifer specifically as fodder. Irrigated field.

317499 and 317500. *VICIA FABA* L. Broadbean.

317499. No. 1341. 'Boccli'. Bamian, about 3 miles west of town. Elevation 8,500 feet. Irrigated field. Main crop for humans and animals.

317500. No. 1354. 'Boccli'. Four miles north of Gandak. Elevation 7,400 feet. Irrigated field. In separate stack. For human consumption.

317501. *VICIA* sp.

No. 1353. 'Bang'. Four miles north of Gandak. Elevation 7,400 feet. Irrigated field. Separate stack. For animal and human consumption.

317389 to 317504—Continued

317502. (Undetermined.)

No. 114. Mixture of *Bromus* sp. and *Lolium rigidum* Gaud. Near Barugabaf. Elevation 4,200 feet. Growing under grapevine.

317503. (Undetermined.)

No. 141. Three miles west of Besha. Elevation 4,700 feet. Growing along bank of Hari Rud River. Rhizomatous.

317504. (Undetermined.)

No. 423. Thirty-eight miles south of Herat. Elevation 5,100 feet. Very dry, sandy roadbank. Fairly common.

317505 to 317508. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. **Sweetpotato.**

From the Union of South Africa. Cuttings presented by the Division of Seed Control, Agricultural Technical Services, Pretoria. Received Nov. 14, 1966.

317505. 'Eland'.

317507. 'Kudu'.

317506. 'Impala'.

317508. 'Wildebees'.

317509 to 317530. ORYZA SATIVA L. Gramineae. **Rice.**

From Malagasy Republic. Seeds collected by P. A. Lemoine, United States Department of Agriculture survey team to Malagasy Republic, International Agricultural Development Service, U. S. Department of Agriculture, Washington, D.C. Numbered Nov. 18, 1966.

Originally grown at the Agronomy Research Institute, Tananarive.

317509. 'Bekasaka'.

317520. No. 996.

317510. 'Makalioka-34'.

317521. No. 1055.

317511. MK-34.

317522. No. 1139.

317512. VK x AC.

317523. No. 1216.

317513. No. 109.

317524. No. 1285.

317514. No. 342.

317525. No. 1300.

317515. No. 552.

317526. No. 1302.

317516. No. 697.

317527. No. 1318.

317517. No. 752.

317528. No. 1329.

317518. No. 823.

317529. No. 1381.

317519. No. 923.

317530. No. 1583.

317531. MEDICAGO SATIVA L. Leguminosae. **Alfalfa.**

From Argentina. Seeds presented by G. A. Tome, Dean, Faculty of Agronomy and Veterinary Sciences, University of Buenos Aires. Numbered Nov. 18, 1966.

'San Martin FAV'.

317532 to 317547.

From Scotland. Cuttings presented by Royal Botanic Garden, Edinburgh. Growing at Longwood Gardens, Kennett Square, Pa. Numbered Nov. 18, 1966.

317532 to 317534. CALLUNA VULGARIS (L.) Salisb. Ericaceae. **Heather.**

317532. 'Alportii'.

317533. 'Goldsworth Crimson'.

317534. 'Peter Sparkes'.

317532 to 317547—Continued

317535. *CALLUNA VULGARIS* var. *HIRSUTA* (Waitz) S. F. Gray
 317536. *CALLUNA VULGARIS* f. *SEROTINA* (Loud.) Rehd.
 317537 and 317538. *ERICA CARNEA* L. Ericaceae. Spring heath.
 317537. 'Alan Coates'.
 317538. 'Winter Beauty'.
 317539 to 317543. *ERICA CINEREA* L. Twisted heath.
 317539. 'Atrosanguinea'. 317542. 'C. G. Best'.
 317540. 'Cevenne'. 317543. 'Colligan Bridge'.
 317541. 'C. D. Eason'.
 317544 and 317545. *ERICA* × *DARLEYENSIS* Bean Heath.
 317544. 'Arthur Johnson'.
 317545. 'Silber Schmelze'.
 317546 and 317547. *ERICA VAGANS* L. Cornish heath.
 317546. 'Diana Hornibrook'.
 317547. 'Lyonesse'.

317548 and 317549. *MEDICAGO SATIVA* L. Leguminosae. Alfalfa.

From the United States. Seeds presented by Vernon L. Thomas, Inc., Huron, Calif. Numbered Nov. 22, 1966.

317548. 'Mega'. Registry No. 6-1358-UTI. Originally developed by the Swedish Seed Association, Svalof, Sweden. Synthetic variety of 75 clones selected from alfalfa of Flemish origin.
 317549. 'Tuna'. Registry No. 6-1293-RTIX. Originally developed by Hammenhogs, Ultuna, Sweden. Reported to be more winter hardy than Flemish varieties presently available.

317550 to 317597.

From Guatemala. Seeds presented by the Regional Office for the Northern Zone of Interamerican Institute of Agricultural Sciences, Caimaltenango. Numbered Nov. 22, 1966.

- 317550 to 317585. *PHASEOLUS COCCINEUS* L. Leguminosae. Scarlet runner bean.
 317550. Plot No. 1216. 'Piligue rojo Antigua'. Resistant to anthracnose.
 317551. Plot No. 1217. 'Piloy de Antigua'. Resistant to anthracnose.
 317552. Plot No. 1219. 'Enredo rojo Antigua'. Resistant to anthracnose.
 317553. Plot No. 1230. 'Piligue rojo'. Izapa. Resistant to anthracnose.
 317554. Plot No. 1235. 'Piloy rojo'. Recpan. Resistant to anthracnose.
 317555. Plot No. 1262. 'Piligue'.
 317556. Plot No. 1295. 'Rojo de suelo'.
 317557. Plot No. 1325. 'Piloy Nebaj'.
 317558. Plot No. 1355. 'Piloy negro de Nebaj'. Resistant to anthracnose.
 317559. Plot No. 1358. 'Piloy negro de Nebaj'. Resistant to anthracnose.

317550 to 317597—Continued

317550 to 317585—Continued

317560. Plot No. 1360. 'Grande chaluj'. Resistant to anthracnose. Mixture of *P. coccineus* and *P. vulgaris*.
317561. Plot No. 1367. 'Piloy rojo de Quiche'. Resistant to anthracnose.
317562. Plot No. 1389. 'Piloy rojo de Comanchaj'. Resistant to anthracnose.
317563. Plot No. 1400. 'Piligue Chuy'. Resistant to anthracnose.
317564. Plot No. 1407. 'Nun'.
317565. Plot No. 1410. 'Piloy'. Resistant to anthracnose.
317566. Plot No. 1414. 'Piligue Nun'.
317567. Plot No. 1420. 'Piloy de Carcha'. Resistant to anthracnose.
317568. Plot No. 1448. 'Piloy grande'.
317569. Plot No. 1480. 'Piloy de Tonicapan'. Resistant to anthracnose.
317570. Plot No. 1493. 'Piloy de Chichicastenango'.
317571. Plot No. 1496. 'Piloy de Chichicastenango'. Resistant to anthracnose.
317572. Plot No. 1507. 'Piloy negro de Chichicastenango.' Resistant to anthracnose.
317573. Plot No. 1509. 'Mezcla de piloy de Chichicastenango'.
317574. Plot No. 1514. 'Piloy de Quetzaltenango'. Resistant to anthracnose.
317575. Plot No. 1528. 'Piloy de Tecpan'. Resistant to anthracnose.
317576. Plot No. 1591. 'Mezcla de piloy'. Jalapa.
317577. Plot No. 1597. 'Mezcla de piloy'. Jalapa.
317578. Plot No. 1602. 'Mezcla de piloy'. Jalapa.
317579. Plot No. 1608. 'Mezcla de piloy'. San Jeronimo. Resistant to anthracnose.
317580. Plot No. 1613. 'Mezcla de piloy'. Coban.
317581. Plot No. 1616. 'Mezcla de piloy'. Coban. Resistant to anthracnose.
317582. Plot No. 1623. 'Mezcla de piloy'. Rabinal. Resistant to anthracnose.
317583. Plot No. 1636. 'Mezcla de piloy'. Carcha. Resistant to anthracnose.
317584. Plot No. 1651. 'Mezcla de piloy'. Juruna. Resistant to anthracnose.
317585. Plot No. 1654. 'Mezcla de piloy'. Juruna. Resistant to anthracnose.
- 317586 to 317597. PHASEOLUS VULGARIS L. Leguminosae. Common bean.
317586. Plot No. 1043. IAN 2465-29-6 VN.
317587. Plot No. 1049. S 443 N TU.
317588. Plot No. 1051. IAN.
317589. Plot No. 1054. S 452 B1. TU.
317590. Plot No. 1062. S 85 B TU.

317550 to 317597—Continued**317586 to 317597—Continued**

317591. Plot No. 1063. San Andres No. 1 ES.
 317592. Plot No. 1067. IAN 2465-26-9 VN IAN.
 317593. Plot No. 1069. IAN 2829-1 G IAN.
 317594. Plot No. 1079. Veronic 2 NIC.
 317595. Plot No. 1081. IAN 2809-36 IAN.
 317596. Plot No. 1486. 'Piloy de Totonicapan'. Resistant to anthracnose.
 317597. Plot No. 1629. 'Negro de Quiche'.

317598. ARMORACIA LAPATHIFOLIA Gilib. Cruciferae.**Horseradish.**

From Turkey. Roots presented by the Crops Research and Introduction Centre, Karsiyaka, Izmir. Received November 25, 1966.

317599 to 317617.

From Great Britain. Plants purchased from Hillier and Sons, Winchester, England. Numbered Dec. 7, 1966.

317599. ARBUTUS × ANDRACHNOIDES Link. Ericaceae.
 317600. ARBUTUS UNEDO L. Strawberry tree.
 317601. DABOECIA CANTABRICA (Huds.) Koch Ericaceae.
 317602. ENKIANTHUS CERNUUS var. RUBENS (Maxim.) Makino Ericaceae.
 317603. EPIGAEA ASIATICA Maxim. Ericaceae. Asiatic trailing arbutus.
 317604. ERICA AUSTRALIS L. Ericaceae.
 317605. ERICA PAGEANA L. Bolus
 317606. GAULTHERIA CUNEATA (Rehd. & Wils.) Bean Ericaceae.
 317607. GAULTHERIA HOOKERI C.B. Clarke
 317608. GAULTHERIA SEMI-INFERA (C.B. Clarke) Airy Shaw
 317609. KALMIOPSIS LEACHIANA (Henders.) Rehd. Ericaceae.
 317610. LEIOPHYLLUM BUXIFOLIUM var. HUGERI (Small) Schneid. Ericaceae.
 317611. PHYLLODOCE CAERULEA (L.) Bab. Ericaceae. Blue mountain heath.
 317612. PHYLLODOCE EMPETRIFORMIS (Sm.) D. Don
 317613. PHYLLODOCE NIPPONICA Makino Nippon mountain heath.
 317614. VACCINIUM CYLINDRACEUM Sm. Ericaceae.
 317615. VACCINIUM MOUPINENSE Franch.
 317616. VACCINIUM NUMMULARIA Hook. f. & Thoms. ex Clarke
 317617. VACCINIUM RETUSUM (Griff.) Hook. f.

317618 to 317620. SACCHARUM (hybrid) Gramineae.

From Peru. Cuttings presented by the Agriculture Attache, American Embassy, Lima. Received Dec. 7, 1966.

317618. Lar. 53-3540.
 317619. Lar. 58-4304.
 317620. Lar. 60-1402.

317621. MUSSAENDA PILOSISSIMA (Engl.) Valetton Rubiaceae.

From Ceylon. Seeds presented by Royal Botanic Gardens, Peradeniya. Numbered Dec. 7, 1966.

317622 to 317672.

From the United States. Seeds presented by H. J. Gorz, University of Nebraska, Lincoln. Seeds originally from Brandon, Manitoba, Canada unless otherwise indicated. Numbered Dec. 7, 1966.

317622. MELILOTUS ALTISSIMUS Thuill. Leguminosae.

Col. No. A-963. Hungary. Bdn. 58-262.

317623. MELILOTUS ELEGANS Salzm. ex DC.

Col. No. A-1011. Bdn. 61-134. Flowers yellow.

317624 to 317632. MELILOTUS INDICA (L.) All. Annual yellow sweetclover.

317624. Col. No. A-964. Bdn. 58-5.

317625. Col. No. A-965. Bdn. 58-247.

317626. Col. No. A-966. Bdn. 525.

317627. Col. No. A-967. Bdn. 547.

317628. Col. No. A-968. Bdn. 632.

317629. Col. No. A-969. Bdn. 776.

317630. Col. No. A-970. Bdn. 60-71. CR-c2-60-4.

317631. Col. No. A-971. Chile. CR-c2-59-63.

317632. Col. No. A-972. Bdn. 60-70. CR-c2-60-3.

317633. MELILOTUS SEGITALIS (Brot.) Seringe

Col. No. A-1010. Algeria. N 688 o.p. Flowers yellow. A Nebraska selection from P.I. 208685.

317634 to 317638. MELILOTUS ITALICA (L.) Lam.

317634. Col. No. A-973. Bdn. 523.

317635. Col. No. A-974. Czechoslovakia. Bdn. 58-256.

317636. Col. No. No. A-975. Stockholm, Sweden. Bdn. 852. To 16 inches high.

317637. Col. No. A-976. Sweden. Bdn. 856.

317638. Col. No. A-977. Israel. Bdn. 978.

317639 to 317643. MELILOTUS MESSANENSIS (L.) All.

317639. Col. No. A-978. Origin unknown. Bdn. 60-33.

317640. Col. No. A-979. Origin unknown. Bdn. 60-34.

317641. Col. No. A-980. Portugal. Bdn. 524.

317642. Col. No. A-981. Portugal. Bdn. 859.

317643. Col. No. A-992. Italy. Bdn. 58-195.

317644. MELILOTUS NEAPOLITANA Ten.

Col. No. A-1012. Algeria. Bdn. 61-97. Flowers yellow.

317645. MELILOTUS NEAPOLITANA Ten.

Col. No. A-1013. Portugal. Bdn. 58-245. Flowers yellow.

317646 to 317649. MELILOTUS SEGETALIS (Brot.) Seringe

317646. Col. No. A-982. Poland. Bdn. 58-129.

317647. Col. No. A-983. Iowa (United States). Bdn. 535.

317622 to 317672—Continued**317646 to 317649—Continued**

317648. Col. No. A-984. Malta. Bdn. 863. Flowers yellow.

317649. Col. No. A-985. Czechoslovakia. Bdn. 1017. Flowers yellow.

317650 to 317652. MELILOTUS SPECIOSA Durieu

317650. Col. No. A-986. Bdn. 59-51. Flowers white.

317651. Col. No. A-987. Origin unknown. Bdn. 60-40. Flowers white.

317652. Col. No. A-988. Iowa (United States). Bdn. 536. Flowers white.

317653 to 317661. MELILOTUS SULCATA Desf.

317653. Col. No. A-989. Bdn. 60-72. Flowers yellow.

317654. Col. No. A-990. Nebraska (United States). Bdn. 58-4. Flowers yellow.

317655. Col. No. A-991. Czechoslovakia. Bdn. 58-194. Flowers yellow.

317656. Col. No. A-993. Czechoslovakia. Bdn. 58-263.

317657. Col. No. A-994. Morocco. Bdn. 61-31.

317658. Col. No. A-995. Sweden. Bdn. 862.

317659. Col. No. A-996. Israel. Bdn. 1018.

317660. Col. No. A-997. Germany. Bdn. 1019.

317661. Col. No. A-998. France. Bdn. 1020.

317662 and 317663. MELILOTUS TAURICA (Bieb.) Seringe

317662. Col. No. A-999. Bdn. 546.

317663. Col. No. A-1000. Czechoslovakia. Bdn. 58-253.

317664 to 317672. MELILOTUS WOLGICA Poir.

317664. Col. No. A-1001. Denmark. Bdn. 1022. To 36 inches high. Flowers white.

317665. Col. No. A-1002. Denmark. Bdn. 58-244.

317666. Col. No. A-1003. Czechoslovakia. Bdn. 58-254.

317667. Col. No. A-1004. Italy. Bdn. 59-34.

317668. Col. No. A-1005. Hungary. Bdn. 59-50.

317669. Col. No. A-1006. Hungary. Bdn. 60-111.

317670. Col. No. A-1007. Origin unknown. Bdn. 244.

317671. Col. No. A-1008. Iowa (United States). Bdn. 534.

317672. Col. No. A-1009. Czechoslovakia.

317673. ZEA MAYS L. Gramineae. Corn.

From the United States. Seed presented by Department of Agronomy, University of Wisconsin, Madison. Numbered Dec. 8, 1966.

Col. No. A-543. 'Mais Mano 16'. Open pollinated. Originally from Japan. Early yellow flint. Plants to 4 feet high; 7 nodes; 0-2 suckers. Silking 49 days after planting; 1 to 2 ears per stalk. Poor vigor.

317674 to 317679. ZEA MAYS L. Gramineae. Corn.

From the United States. Seed collected by Mr. Heddon, Bureau of Indian Affairs, Phoenix, Ariz., from the Havasupai Indians in the Grand Canyon. Numbered December 8, 1966.

317674 to 317679—Continued

317674. Col. No. A-728. Medium maturity, purple-orange flour corn. To 6 feet high; 13 nodes; 3 to 5 suckers; 1 to 2 ears per stalk; silking 70 days after planting. Good vigor.
317675. Col. No. A-729. Pure blue. Used by Indians in piki bread.
317676. Col. No. A-730. Medium maturity, white kernel flour corn. Plants to 9 feet high; 12 nodes; 3 to 6 suckers; 1 ear per stalk; silking 72 days after planting. Good vigor.
317677. Col. No. A-731. Medium maturity, orange flour corn; to 6½ feet high; 12 nodes; 3 to 6 suckers; 1 to 2 ears per stalk; silking 70 days after planting. Good vigor.
317678. Col. No. A-732. Medium maturity, red flour corn; to 6½ feet high; 11 nodes; 4 to 9 suckers; 1 to 2 ears per stalk; silking 69 days after planting. Good vigor.
317679. Col. No. A-733. Medium maturity, white-purple flour corn; to 7 feet high; 12 nodes; 3 to 6 suckers; 1 ear per stalk. Silking 72 days after planting. Good vigor.

317680 to 317682. ZEA MAYS L. Gramineae. Corn.

From the United States. Seeds presented by Joe Curtiss, Vermillion, South Dakota. Numbered December 8, 1966.

317680. Col. No. A-1054. 'Black Beauty'. Early, purple, popcorn; to 3 feet high; 7 nodes; 2 to 5 suckers; 1 to 3 ears per stalk; silking 48 days after planting. Poor vigor.
317681. Col. No. A-1056. May be similar to 'Ivory King'. Medium maturity; cream-tinged pink flour corn; plants to 6 feet high; 9 nodes, 5 to 10 suckers; 2 to 3 ears per stalk; silking 59 days after planting. Good vigor.
317682. Col. No. A-1058. 'Mercer Flint'. An S₁ inbred line of 'Mercer Flint'; otherwise the same as 'Mercer Flint'. Yellow flint; plants to 5 feet high; 7 nodes; 4 to 6 suckers; 1 to 2 ears per stalk; silking 54 days after planting.

317683 and 317684. ZEA MAYS L. Gramineae. Corn.

From the United States. Seeds presented by W. H. Martin, Leesburg, Va. Numbered Dec. 8, 1966.

317683. Col. No. A-1059. 'Blue Ridge White Cap'. Lot No. 54. White and yellow dent; plants to 10 feet high; 15 nodes; 4 to 5 suckers; 1 to 2 ears per stalk; silking 70 days after planting. Good vigor.
317684. Col. No. A-1060. 'Blue Ridge White Cap'. Lot No. 55. Yellow dent; plants to 10 feet high; 15 nodes; 0-2 suckers; 1 ear per stalk; silking 70 days after planting. Good vigor.

317685 to 317688. CAMPTOTHECA ACUMINATA Decaisne Cornaceae.

From Taiwan. Seeds collected by He Ta-wei, Forestry Division, Joint Commission on Rural Reconstruction, Taipei. Received Dec. 9, 1966.

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|---------------------|---------------------|
| 317685. Tree No. 1. | 317687. Tree No. 7. |
| 317686. Tree No. 5. | 317688. Tree No. 8. |

317689 to 317693. TRITICUM AESTIVUM L. Gramineae.

From Yugoslavia. Seeds obtained from the 1965-66 International Rust Nursery, Zagreb. Received Dec. 13, 1966.

317689. Zagreb 1993/65. San Pastore × Minn III-54-28.

317689 to 317693—Continued

317690. Zagreb 3639/65. San Pastore × Heine VII 3x Bobin 2x Gaza × Bobin 4x Pawnee.
 317691. Zagreb 3805/65. Elia × U1 2x Kenya 261-R.
 317692. Zagreb 3815/65. Elia × U1 2x Kenya 261-R.
 317693. Zagreb 4812/65. San Pastore × Heine VII 3x Bobin 2x Gaza × Bobin 4x Pawnee.

317694 to 317815.

From Israel. Seeds presented by the Faculty of Agriculture, The Hebrew University, Jerusalem, under Public Law 480 Project A10-CR-20. Received Dec. 13, 1966.

317694 and 317695. AVENA FATUA L. Gramineae. Wild oats.

317694. No. 1. Wild. Collected by D. Zohary, 1962, between Kutahya and Gediz, West Turkey. Weed in spring wheat cultivation.
 317695. No. 2. Multiplication in Jerusalem, 1966. Collected by D. Zohary, 1965, 2 km. north of Tabriz, Azerbaijan District, Iran. Edges of cultivation.

317696 to 317815. AVENA STERILIS L. Animated oats.

Collected by D. Zohary, 1962.

317696. No. 1. Multiplication in Jerusalem, 1966. Four km. south of Manisa, Izmir area, West Turkey.
 317697. No. 2. Multiplication in Jerusalem, 1965. Three km. south of Gaziantep, south Turkey.
 317698. No. 3. Edge of cultivation, 50 km. south of Sanandadj, Iranian Kurdistan, Iran.
 317699. No. 4. Thirty km. north of Ilam Kermanshah District, Iran. *Quercus persica* park-forest, hard limestone, west-facing escarpments of the Zagros Range.
 317700. No. 5. Marand, 60 km. northwest of Tabriz, Azerbaijan District, Iran. Edge of cultivation.

Resistant at the seedling and adolescent stages to race 6 of *Puccinia graminis* in the greenhouse. Intermediate reaction to stem rust at older age in the 6-6E race nursery.

En Dor, eastern lower Galilee.

317701. 6-174-5-1-101.
 317702. 6-174-5-1-104.
 317703. 6-174-5-2-102.
 317704. 6-1099-126. Ammi'ad, Korasim.
 317705. 6-1277-104. Gan HaDarom, central coastal plain.
 317706. 6-1462-105. Emunim, southern coastal plain.
 Ramat Hadar, central coastal plain.
 317707. 6-1563-102.
 317708. 6-1563-103.
 317709. 6-1563-104.
 317710. 6-1563-106.
 317711. 6-1696-.38 Tirat Carmel, coast of Carmel.
 317712. 6-1730-104. Beerotayim, central coastal plain.

317694 to 317815—Continued

317696 to 317815—Continued

317713. 6-1755-103. Kefar Bialik, Haifa Bay.

317714. 6-1871-137. Gesher, Bet Shean Valley.

317715. 6-1922-146. Haifa, Haifa Bay.

Resistant at the seedling and adolescent stages to race 6E of *P. graminis* in the greenhouse. Intermediate reaction to stem rust at older age in the 6-6E race nursery.

Herzliyya, central coastal plain.

317716. 6-952-113.

317717. 6-952-115.

317718. 6-964-113. Kefar Netter, central coastal plain.

317719. 6-999-112. Urim, Northern Negev.

317720. 6-1278-113. Gan HaDarom, central coastal plain.

317721. 6-1304-118. Tequma, southern coastal plain.

Emunim, southern coastal plain.

317722. 6-1462-111.

317723. 6-1462-114.

317724. 6-1462-115.

317725. 6-1462-116.

317726. 6-1462-119.

317727. 6-1563-114. Ramat Hadar, central coastal plain.

317728. 6-1598-113. N. Tut, Plateau of Menashe.

Even Yizhaq, Plateau of Menashe.

317729. 6-1744-112.

317730. 6-1744-113.

317731. 6-1744-116.

317732. 6-1744-117.

317733. 6-1758-115. En HaShofet, Plateau of Menashe.

Kefar Hasidim, Haifa Bay.

317734. 6-1785-112.

317735. 6-1785-116.

N. Tut, Plateau of Menashe.

317736. 6-1795-119.

317737. 6-1811-118.

317738. 6-2135. Bat Shelomo, Mount Carmel.

Resistant to race 6 of stem rust in the greenhouse both at seedling and mature stages.

Maghar, eastern lower Galilee.

317739. 6-76-3-1-105.

317740. 6-76-4-2-103.

En Dor, eastern lower Galilee.

317741. 6-174-5-3-104.

317742. 6-174-5-3-105.

317694 to 317815—Continued

317696 to 317815—Continued

317743. 6-688-111. Devira, Judean Foothills.

317744. 6-2007-101. Even Menachem, upper Galilee.

Resistant to race 6E of stem rust in the greenhouse both at the seedling and mature stages.

Devira, Judean foothills.

317745. 6-688-3-101.

317746. 6-688-3-103.

317747. 6-1197-112. Kefar Tavor, eastern lower Galilee.

Intermediate stem reactions in the 6-6E race nursery. All selections produced by seed harvested from plants that showed stem rust resistance in their natural habitats.

Herzliyya, central coastal plain.

317748. 6-952-130.

317751. 6-952-133.

317749. 6-952-131.

317752. 6-953-130.

317750. 6-952-132.

Can HaDaron, central coastal plain.

317753. 6-1245-131.

317754. 6-1246-130.

317755. 6-1246-131.

317756. 6-1251-130.

317757. 6-1272-131.

317758. 6-1273-130.

317759. 6-1273-131.

317760. 6-1273-132.

317761. 6-1274-130.

317762. 6-1275-131.

317763. 6-1278-130.

317764. 6-1279-130.

317765. 6-1281-130. Erez, southern coastal plain.

317766. 6-1292-130. Shetulim, southern coastal plain.

Sede Uziyyahu, southern coastal plain.

317767. No data. Sample discarded.

317768. 6-1308-130.

317769. 6-1310-130.

317770. 6-1310-131.

317771. 6-1310-132.

317772. 6-1311-133.

317773. 6-1312-130.

317774. 6-1312-131.

317775. 6-1312-132.

317694 to 317815—Continued

317696 to 317815—Continued

Nes Ziyzona, central coastal plain.

317776. 6-1399-131. 317778. 6-1401-131.

317777. 6-1400-130. 317779. 6-1406-130.

Bet Gamliel, central coastal plain.

317780. 6-1415-133. 317786. 6-1425-130.

317781. 6-1419-130. 317787. 6-1437-130.

317782. 6-1419-131. 317788. 6-1440-130.

317783. 6-1420-130. 317789. 6-1440-131.

317784. 6-1424-131. 317790. 6-1447-130.

317785. 6-1424-132. 317791. 6-1447-131.

N. Tut, Plateau of Menashe.

317792. 6-1604-130.

317793. 6-1605-130.

317794. 6-2025-101. M'alot, upper Galilee.

317795. 6-2034-101. Bar'am, upper Galilee.

Resistant to stem rust in mature stage under natural conditions and exhibiting partial resistance when transferred to the greenhouse and artificially infected with race 6 of *Puccinia graminis avenae*.

Bat Shelomo, Mount Carmel.

317796. 6-2146. 317802. 6-2152.

317797. 6-2147. 317803. 6-2154.

317798. 6-2148. 317804. 6-2155.

317799. 6-2149. 317805. 6-2156.

317800. 6-2150. 317806. 6-2157.

317801. 6-2151. 317807. 6-2158.

From single plants that were tested only in the 6-6E race nursery and produced intermediate reactions.

317808. 6-922-1. Mazzuva.

317809. 6-1426-130. Bet Gamliel.

317810. 6-1426-131. Bet Gamliel.

317811. 6-1730-1.

317812. 6-1836-1. Nordiyya

317813. 6-1841-17. N. Tut.

317814. 6-1922-146. Haifa.

317815. 6-1966-130. Peqi'in.

317816. HIBISCUS LILIFLORUS Cav. Malvaceae.

From Mauritius. Seeds presented to R. E. Vaughan, Sugar Industry Research Institute, Reduit. Received Dec. 20, 1966.

From tree grafted at Labourdonnais in 1938 from budwood collected at Rodriguez.

317817. MYRCIARIA CAULIFLORA Berg. Myrtaceae.

From Brazil. Seeds presented by Theodore Hymowitz, Instituto de Pesquisas, IRI, Campinas, Sao Paulo. Received Dec. 20, 1966.

Mother plant purchased in Campinas market, 1941. Seedlings produced by Mrs. Benedita Martins Vicente, Rau Americo Brasiliense, 98. Fruit reported larger and sweeter than local market types.

317818. EUCARYA ACUMINATA (R. Br.) Sprague & Summerhayes
Santalaceae. **Quandong nuts.**

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Numbered Dec. 20, 1966.

Viability reported to last up to 40 years. Plant is parasitic on *Acacia* and *Eucalyptus* species. For previous introduction see P. I. 35323 (*Mida acuminata*).

317819. ERYTHROXYLON COCA Lam. Erythroxylaceae.

From Honduras. Seeds presented through John L. Creech, Plant Industry Station, Beltsville, Md. Received Dec. 20, 1966.

317820 to 317841.

From Great Britain. Scions presented by J. W. Archer, Doone Valley, Wrecclesham, Faraham, England. Numbered Dec. 20, 1966.

317820 to 317822. CHAMAECYPARIS LAWSONIANA (Murray) Parl. Pina-
ceae. **Lawson cypress.**

317820. 'Green Spire'.

317821. 'Spire'.

317822. 'Warnham Gnome'.

317823. CHAMAECYPARIS LAWSONIANA f. **FLETCHERI** Rehd.**317824. CHAMAECYPARIS OBTUSA** f. **PYGMAEA** (Gord.) Beissner
'Aurescens'.**317825. CHAMAECYPARIS OBTUSA** f. **SANDERI** (Sander) Rehd.**317826 to 317829. COTONEASTER** (hybrid) Rosaceae.

317826. No. 1. **317828.** No. 3.

317827. No. 2. **317829.** No. 4.

317830. COTONEASTER CONGESTA Baker

'Minor'.

317831. CYTISUS SCOPARIUS (L.) Link Leguminosae. **Scotch broom.****317832. CYTISUS SCOPARIUS** var. **PROSTRATA** (C. Bailey) Hanbury ex A. B.
Jackson**317833. LAVENDULA OFFICINALIS** Chaix in Vill. Labiatae.

'Nana alba'.

317834. PICEA ABIES (L.) Karst. Pinaceae. **Norway spruce.**

'Gnome'.

317835. PODOCARPUS ANDINA Poepp. Taxaceae.

'P.T.O.'

317836. THUJA OCCIDENTALIS L. Pinaceae. **American arborvitae.**

'Pygmaea'.

317820 to 317841—Continued

- 317837 and 317838. *THUJA PLICATA* D. Don **Giant arborvitae.**
 317837. 'Doone Valley'.
 317838. 'Ericoides'.
 317839. *VIBURNUM* (hybrid). *Caprifoliaceae.* **Viburnum.**
 'Fullbrook'.
 317840. *VIBURNUM FRAGRANS* var. *NANUS* Boom
 317841. *VITIS* sp. *Vitaceae.*

317842 to 317845.

From Great Britain. Scions presented by the Royal Horticultural Society, Wisley, Ripley, Surrey. Numbered Dec. 21, 1966.

- 317842 to 317844. *CALLUNA VULGARIS* (L.) Salisb. *Ericaceae.* **Heather.**
 317842. 'Alba Plena'.
 317843. 'Barnett Angley'.
 317844. 'Serlei Aurea'.
 317845. *ERICA VAGANS* L. *Ericaceae.* **Cornish heath.**
 'Mrs. D. F. Maxwell'.

317846. AVENA SATIVA L. Gramineae. Common oats.

From Scotland. Seeds presented by MacFarlan, Shearer & Company Greenock. Received Dec. 21, 1966.

'Bell'.

317847. AVENA SATIVA L. Gramineae. Common oats.

From Sweden. Seeds presented by Swedish Seed Association, Svalof. Received Dec. 21, 1966.

'Linda'. Cross between Eho and Blenda.

317848 to 317880.

From Honduras. Scions collected by Harold F. Winters, Crops Research Division, Plant Industry Station, Beltsville, Md., at the Lancetilla Experimental Station, Tela. Received Dec. 21, 1966.

317848. *MANGIFERA CAESIA* Jack ex Wallich *Anacardiaceae.* **Binjai mango.**

Col. No. 1024.

317849 to 317864. MANGIFERA INDICA L.

317849. Col. No. 1025. 'Alphonse'.
 317850. Col. No. 1026. 'Amini'.
 317851. Col. No. 1027. 'Bombay'.
 317852. Col. No. 1028. 'Concord'.
 317853. Col. No. 1029. 'Fairchild'.
 317854. Col. No. 1030. 'Gadoeng'.
 317855. Col. No. 1031. 'Goa Alphonse'.
 317856. Col. No. 1032. 'Lancetilla'.
 317857. Col. No. 1033. 'Langra benarsi'.
 317858. Col. No. 1034. 'Langra bhadra'.
 317859. Col. No. 1035. 'Lolita'.

317848 to 317880—Continued**317849 to 317864—Continued**

317860. Col. No. 1036. 'Martinique'.

317861. Col. No. 1037. 'Rosa'.

317862. Col. No. 1038. 'Manila'.

317863. Col. No. 1039. No. 11.

317864. Col. No. 1040. 'Tibombo'.

317865. *MANGIFERA ODORATA* Griffith
Col. No. 1041.317866. *NEPHELIUM LAPPACEUM* L. Sapindaceae. **Rambutan.**
Col. No. 1057. Germinating seed. Mixed varieties.317867 to 317879. *PERSEA AMERICANA* Mill. Lauraceae. **Avocado.**

317867. Col. No. 1042. 'Aycock No. 19'. Red.

317868. Col. No. 1043. 'Aycock No. 3'.

317869. Col. No. 1044. 'Belize'. Early April.

317870. Col. No. 1045. 'Donaldson'.

317871. Col. No. 1046. 'Dora'. March.

317872. Col. No. 1047. 'Kilo 4 Ceiba'.

317873. Col. No. 1048. 'Progreso Late'. December.

317874. Col. No. 1049. 'Queen'. December.

317875. Col. No. 1050. 'Raul Arango'.

317876. Col. No. 1051. 'Roatan'. Resembles Simmonds. June.

317877. Col. No. 1052. 'Tito Perla'.

317878. Col. No. 1053. 'Wilson Popenoe'. Extremely elongate fruit.

317879. Col. No. 1056. 'Lima Late'. December.

317880. *PERSEA SCHIEDIANA* Nees **Coyo avocado.**
Col. No. 1055.**317881 to 317889.****From Hondunas.** Seeds and rhizomes collected by Harold F. Winters, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Dec. 21, 1966.

Seeds unless otherwise indicated.

317881. *CANNA GENERALIS* Baily Cannaceae.

Col. No. 1058. 'Chinese Dragon'. Escuela Agricola Panamericana, Zamorano. Medium height; flowers yellow with pale red spots. (Rhizomes)

317882. *GLIRICIDIA* sp. Leguminosae.

Col. No. 1016. In pine woods near Ojojona. Woody shrub.

317883. *HELICONIA BIHAI* L. Musaceae.

Col. No. 1023. Lancetilla Experiment Station, Tela. Plant tall; inflorescence erect, yellow; stems pubescent.

317884. *HELICONIA COLLINSIANA* Griggs

Col. No. 1021. Lancetilla Experiment Station, Tela. Plant tall.

317885. *HELICONIA CRASSA* Griggs

Col. No. 1019. Lancetilla Experiment Station, Tela.

317881 to 317889—Continued

317886. *HELICONIA LIBRATA* Griggs

Col. No. 1022. Lancetilla Experiment Station, Tela. Inflorescence erect, yellow.

317887. *HELICONIA PSITTACORUM* L. f.

Col. No. 1020. Lancetilla Experiment Station, Tela. Semidwarf, inflorescence erect, orange red.

317888. *OPERCULINA TUBEROSA* (L.) Meisn. Convolvulaceae.

Col. No. 1018. 'Wooden Rose'. Escuela Agricola Panamericana. Vine with ornamental fruit.

317889. *ZINNIA* sp. Compositae.

Col. No. 1017. Along main road to Pacific coast from Tegucigalpa, 10 km. from Tegucigalpa. Annual, small.

317890. ANTIGONON sp. Polygonaceae.

From El Salvador. Seeds collected by Harold F. Winters, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Dec. 21, 1966.

Col. No. 1059. Old lava flow near San Salvador, El Salvador. Vine; flowers pale pink, large for the genus.

317891. AVENA SATIVA L. Gramineae. **Common oats.**

From Yugoslavia. Seeds presented by Slavko Borojevic, Institut Za Poljoprivredna Istrazivanja, Novi Sad, Maksima Gorkog 30. Received Dec. 22, 1966.

'Novi Sad 2'.

317892. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received Dec. 22, 1966.

No. 2312. 'Early Maturing Siberian'. Originally from West Siberia.

317893. CUCURBITA MAXIMA Duchesne Cucurbitaceae. **Squash.**

From Hungary. Seeds presented by A. Janossy, National Institute of Agrobotany, Tapioszele. Received Dec. 22, 1966.

'Grey Mammoth'. Fruit large, ribbed, silver grey; flesh light yellow. Leaves large, nonlacerated, round.

317894 to 317903.

From Brazil. Seeds presented by Theodore Hymowitz, Instituto de Pesquisas, IRI, Campinas, Sao Paulo. Received Dec. 22, 1966. Originally from localities in Tanzania as indicated.

317894. *DESMODIUM INTORTUM* (Mill.) Urb. Leguminosae.

IRI 2805. Tengeru.

317895. *DESMODIUM* sp.

IRI 2895. Tengeru.

317896 to 317901. *PUERARIA MONTANA* (Lour.) Merr. Leguminosae.

317896. IRI 2887. Kisongo Musa.

317897. IRI 2888. Masama Moshi.

317898. IRI 2889. Kisongo Lesiraa, Masailand.

317899. IRI 2891. Burka Estate, Itigi near Tabora.

317900. IRI 2892. Burka Estate, Itigi near Tabora.

317894 to 317903—Continued**317896 to 317901—Continued****317901.** IRI 2896. Aridai.**317902.** *RHYNCHOSIA CHRYSADENIA* Taub. Leguminosae.

IRI 2890. Masailand.

317903. *RHYNCHOSIA FLAVISSIMA* Hochst. ex Baker

IRI 2894. Karangai Prison, Lyamungu.

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Plant Inventory No. 175

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D.C., July 1969



PLANT MATERIAL INTRODUCED JANUARY 1 TO DECEMBER 31, 1967 (NOS. 317904 TO 324307)

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This inventory, No. 175, lists the plant material (Nos. 317904 to 324307) received by the New Crops Research Branch, Crops Research Division, Agricultural Research Service, during the period from January 1 to December 31, 1967. The inventory is a historical record of plant material introduced for Department and other specialists and is not to be considered as a list of plant material for distribution.

The species names used are those under which the plant material was received. These have been corrected only for spelling, authorities, and obvious synonymy. Questions related to the names published in the inventory and obvious errors should be directed to the author. If misidentification is apparent, please submit an herbarium specimen with flowers and fruit for reidentification.

HOWARD L. HYLAND
Botanist

*Plant Industry Station
Beltsville, Md.*

INVENTORY

317904. SACCHARUM (hybrid) Gramineae. Sugarcane.

From Brazil. Cuttings presented by Escola Superior de Agricultura 'Luiz de Queiroz', Piracicaba, Sao Paulo. Received Sept. 19, 1966. Numbered Jan. 6, 1967.

CB 36-14.

317905 and 317906.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Numbered Jan. 6, 1967.

317905. VICIA DISPERMA DC. Leguminosae.

C.P.I. 1074.

317906. VICIA PANNONICA Crantz

C.P.I. 22901.

317907. CLEMATIS VITICELLA L. Ranunculaceae.

Italian clematis.

From Great Britain. Plants presented by Fisk's Clematis Nursery, Westleton, Saxmundham, Suffolk. Numbered Jan. 6, 1967.

'Venosa violaceae'.

317908 to 317918.

From the United States. Seeds grown at College of Tropical Agriculture, University of Hawaii, Honolulu, Hawaii. Original sources as indicated. Numbered Jan. 6, 1967.

317908 to 317913. LEUCAENA LEUCOCEPHALA (Lam.) de Wit Leguminosae.
Leadtree.

317908. UH 83. Pulu Sankit Island, Indonesia. Shrub to 10 feet, free seeding.

317909. UH 84. Near Lautoka, Fiji. Common shrub to 8 feet, free seeding.

317910. UH 85. 'Lopa'. Experiment Farm 15 miles from Pago Pago, Samoa. Widely distributed; free-seeding shrub.

317911. UH 86. Near Papeete, Tahiti. Free-seeding shrub, common below 1,000 feet elevation.

317912. UH 91. Twenty miles south of Calabozo, Venezuela.

317913. UH 92. Near Belem, Brazil.

317914. LEUCAENA TRICHODES (Jacq.) Benth.

UH 90. Large leaves similar to *L. lanceolata*. $2n=52$.

317915. LEUCAENA sp.

UH 93. Asanite Bay, Guam. Small seeded, low-growing type, resembles *L. leucocephala*.

317916. LEUCAENA sp.

UH 103. Synthetic derived from F_2 of P.I. 286223. *L. pulverulenta* \times *L. leucocephala* (P.I. 288000). Chromosome number of synthetic range from 60 to 90.

F_1 hybrid $2n=80$.

317908 to 317918—Continued

317917. *LEUCAENA* sp.

UH 107. Cacao plantation at N'Kolbisson about 8 km. west of Yaounde, Cameroun. Elevation 600 meters. Tall shade plant to 6 meters, very small seed.

317918. *LEUCAENA* sp.UH 108. Melen, about 3 km. southwest of Yaounde, Cameroun. Plant to 4 meters; pods 5 cm; seeds resemble *L. leucocephala*.

317919 to 318400.

From Israel. Seeds presented by the Faculty of Agriculture, The Hebrew University, Jerusalem, under Public Law 480 Project A10-CR-20. Numbered Jan. 9, 1967.

317919 to 317959. *AVENA BARBATA* Brot. Gramineae. **Slender oats.**

Antipatris, central coastal plain.

317919. 7-215-2-31.

317920. 7-215-2-35.

317921. 7-215-2-37.

Haruvit.

317922. 7-278-11-31.

Maravi'im.

317923. 7-320-7-37.

317924. 7-320-7-39.

317925. 7-320-7-40.

Migdal Afeq, Judean foothills.

317926. 7-217-3-31.

317927. 7-217-3-32.

317928. 7-217-3-34.

Nahariyya, coast of Galilee.

317929. 7-24-3-31.

317933. 7-24-3-36.

317930. 7-24-3-32.

317934. 7-24-8-34.

317931. 7-24-3-33.

317935. 7-24-8-37.

317932. 7-24-3-34.

Sede Zevi, northern Negev.

317936. 7-378-3-33.

317939. 7-378-3-36.

317937. 7-378-3-34.

317940. 7-378-3-38.

317938. 7-378-3-35.

Shave Zion, coast of Galilee.

317941. 7-37-1-31.

317944. 7-37-1-34.

317942. 7-37-1-32.

317945. 7-37-1-35.

317943. 7-37-1-33.

317946. 7-37-1-36.

Tal Shahaar, Judean foothills.

317947. 7-261-4-32.

Yishi, Judean foothills.

317948. 7-281-7-31.

317950. 7-281-7-33.

317949. 7-281-7-32.

317951. 7-281-7-36.

317919 to 318400—Continued

317919 to 317959—Continued

317952.	7-281-7-37.	317956.	7-281-10-34.
317953.	7-281-10-31.	317957.	7-281-10-35.
317954.	7-281-10-32.	317958.	7-281-10-36.
317955.	7-281-10-33.	317959.	7-281-10-39.

317960 to 318400. AVENA STERILIS L.

Animated oats.

Ammiqam, plateau of Menashe.

317960.	6-1677-1.	317965.	6-1676-22.
317961.	6-1676-2.	317966.	6-1676-23.
317962.	6-1676-4.	317967.	6-1676-25.
317963.	6-1676-5.	317968.	6-1676-26.
317964.	6-1676-21.		

Ashqelon, southern coastal plain.

317969. 6-1-1524-1.

Barqay, Samaritan foothills.

317970.	6-2136-1.	317973.	6-2136-6.
317971.	6-2136-2.	317974.	6-2140-4.
317972.	6-2136-3.		

Bat Shelomi, plateau of Menashe.

317975.	6-2133-1.	317979.	6-2133-7.
317976.	6-2133-3.	317980.	6-2133-9.
317977.	6-2133-4.	317981.	6-2133-10.
317978.	6-2133-5.		

Beerotayim, central coastal plain.

317982.	6-272-4-1-21-1.	317987.	6-1730-1.
317983.	6-272-4-1-21-6.	317988.	6-1723-21.
317984.	6-272-4-36.	317989.	6-1723-23.
317985.	6-272-4-40.	317990.	D204-21.
317986.	6-938-1.	317991.	D204-23.

Bet Leham Hagelilit, lower Galilee.

317992.	6-112-1-4-7.	317996.	6-112-1-52.
317993.	6-112-1-5-1.	317997.	6-112-1-53.
317994.	6-112-1-15-6.	317998.	6-112-1-54.
317995.	6-112-1-51.	317999.	6-112-1-55.

Bet Nehemya, Judean foothills.

318000. 6-1942-1.

Binyamina, coast of Carmel.

318001. 6-1667-21.

318002. 6-2137-1.

Carmel Nesher, Mount Carmel.

318003.	D136-6-9.	318005.	D136-35-8.
318004.	D136-33-9.	318006.	D143-23-8.

317919 to 318400—Continued

317960 to 318400—Continued

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|----------------------------------|--------------------|
| 318007. D136-6-8. | 318013. D136-22-6. |
| 318008. D136-11-7. | 318014. D136-24-1. |
| 318009. D136-22-2. | 318015. D136-31-1. |
| 318010. D136-22-5. | 318016. D136-31-2. |
| 318011. D136-33-6. | 318017. D136-33-1. |
| 318012. D136-11-1. | 318018. D136-33-2. |
| Damon, Mount Carmel. | |
| 318019. 6-1717-2. | |
| 318020. 6-1717-3. | |
| Eilaboon, lower Galilee. | |
| 318021. D40-4-8. | 318030. D40-22-6. |
| 318022. D40-4-9. | 318031. D40-22-9. |
| 318023. D40-4-10. | 318032. D40-22-10. |
| 318024. D40-13-10. | 318033. D40-31-6. |
| 318025. D40-13-12. | 318034. D40-32-10. |
| 318026. D40-13-13. | 318935. D40-33-9. |
| 318027. D40-15-19. | 318036. D40-35-8. |
| 318028. D40-21-7. | 318037. 6-2122-3. |
| 318029. D40-21-9. | |
| Elyaqim, plateau of Menashe. | |
| 318038. 6-1735-1. | |
| Emunim, southern coastal plain. | |
| 318039. 6-1463-21. | |
| En Dor, eastern lower Galilee. | |
| 318040. D143-6-6. | 318042. D143-23-7. |
| 318041. D143-23-6. | 318043. D143-32-8. |
| En HaShofet, plateau of Menashe. | |
| 318044. 6-1014-12. | 318058. 6-1763-20. |
| 318045. 6-1015-11. | 318059. 6-1763-21. |
| 318046. 6-1018-13. | 318060. 6-1764-2. |
| 318047. 6-1019-2. | 318061. 6-1764-3. |
| 318048. 6-1022-11. | 318062. 6-1766-2. |
| 318049. 6-1023-11. | 318063. 6-1767-1. |
| 318050. 6-1024-13. | 318064. 6-1767-2. |
| 318051. 6-1026-11. | 318065. 6-1767-3. |
| 318052. 6-1026-13. | 318066. 6-1768-1. |
| 318053. 6-1028-16. | 318067. 6-1772-13. |
| 318054. 6-1762-6. | 318068. 6-1772-15. |
| 318055. 6-1762-7. | 318069. 6-1773-14. |
| 318056. 6-1762-8. | 318070. 6-1773-18. |
| 318057. 6-1763-18. | 318071. 6-1843-1. |

317919 to 318400—Continued

317960 to 318400—Continued

318072.	6-1843-3.	318082.	6-1852-1.
318073.	6-1844-3.	318083.	6-1852-2.
318074.	6-1845-19.	318084.	6-1852-12.
318075.	6-1845-20.	318085.	6-1854-2.
318076.	6-1845-21.	318086.	6-1854-3.
318077.	6-1847-2.	318087.	6-1856-11.
318078.	6-1847-3.	318088.	6-1864-1.
318079.	6-1847-12.	318089.	6-1869-1.
318080.	6-1850-11.	318090.	6-1869-2.
318081.	6-1850-16.		

Even Yizhaq, plateau of Menashe.

318091.	6-1737-1.	318094.	6-1744-1.
318092.	6-1737-3.	318095.	6-1744-3.
318093.	6-1738-1.		

Ginnosar, Sea of Galilee.

318096.	6-89-3-37.	318098.	6-89-3-42.
318097.	6-89-3-38.	318099.	6-89-3-43.

Giv'at Hamore, eastern lower Galilee.

318100. 6-1159-1.

Giv'at Hayyim, central coastal plain.

318101.	6-257-1-4-1.	318117.	6-257-1-37.
318102.	6-257-1-6-8.	318118.	6-257-1-39.
318103.	6-257-1-14-1.	318119.	6-257-17-22-7.
318104.	6-257-1-21-1.	318120.	6-1718-1.
318105.	6-257-1-21-2.	318121.	6-1718-2.
318106.	6-257-1-21-7.	318122.	6-1718-3.
318107.	6-257-1-21-8.	318123.	6-1718-4.
318108.	6-257-1-23-6.	318124.	6-1718-6.
318109.	6-257-1-23-8.	318125.	6-1718-23.
318110.	6-257-1-31-1.	318126.	6-1718-24.
318111.	6-257-1-32-1.	318127.	6-1718-27.
318112.	6-257-1-31-7.	318128.	6-1718-29.
318113.	6-257-1-32-2.	318129.	6-1718-30.
318114.	6-257-1-34-1.	318130.	6-1718-31.
318115.	6-257-1-35-6.	318131.	6-1718-34.
318116.	6-257-1-36.		

Hadera, central coastal plain.

318132.	D11(70)-20-1.	318135.	6-1683-23.
318133.	6-1683-1.	318136.	6-1683-24.
318134.	6-1683-21.	318137.	6-1683-25.

317919 to 318400—Continued

317960 to 318400—Continued

HaHoterium, coast of Carmel.

318138.	6-105-5-1-1.	318161.	6-105-5-5-8.
318139.	6-105-5-1-2.	318162.	6-105-5-5-9.
318140.	6-105-5-1-7.	318163.	6-105-5-6-1.
318141.	6-105-5-1-9.	318164.	6-105-5-6-2.
318142.	6-105-5-2-1.	318165.	6-105-5-6-6.
318143.	6-105-5-2-3.	318166.	6-105-5-11-7.
318144.	6-105-5-2-7.	318167.	6-105-5-13-6.
318145.	6-105-5-3-1.	318168.	6-105-5-13-9.
318146.	6-105-5-3-2.	318169.	6-105-5-15-1.
318147.	6-105-5-3-3.	318170.	6-105-5-15-6.
318148.	6-105-5-4-1.	318171.	6-105-5-15-7.
318149.	6-105-5-4-8.	318172.	6-105-5-17-8.
318150.	6-105-5-4-21-7.	318173.	6-105-5-17-10.
318151.	6-105-5-4a-21-9.	318174.	6-105-5-21-1.
318152.	6-105-5-4a-25-1.	318175.	6-105-5-24-1.
318153.	6-105-5-4-25-6.	318176.	6-105-5-34-6.
318154.	6-105-5-4-25-7.	318177.	6-105-5-35-8.
318155.	6-105-5-4-25-8.	318178.	6-105-5-35-9.
318156.	6-105-5-4-25-9.	318179.	6-105-5-23-7.
318157.	6-105-5-5-1.	318180.	6-105-5-23-8.
318158.	6-105-5-5-2.	318181.	6-105-5-50.
318159.	6-105-5-5-3.	318182.	6-1691-1.
318160.	6-105-5-5-7.		

Haifa, Haifa Bay.

318183.	6-1694-1.	318185.	6-1922-22.
318184.	6-1694-3.	318186.	6-1922-23.

Hazav, southern coastal plain.

318187. 6-1469-21.

Holot Yavne, central coastal plain.

318188.	D40-41.	318198.	6-313-5-3-7.
318189.	D40-42.	318199.	6-313-5-3-8.
318190.	D40-43.	318200.	6-313-5-3-32-6.
318191.	D40-44.	318201.	6-313-5-7-6.
318192.	D40-45.	318202.	6-313-5-7-7.
318193.	D40-47.	318203.	6-313-5-23-8.
318194.	D136-22-3.	318204.	6-313-5-38.
318195.	6-257-1-32-3.	318205.	6-313-5-39.
318196.	6-313-5-2-6.	318206.	6-313-5-40.
318197.	6-313-5-2-7.	318207.	6-313-5-3-6.

317919 to 318400—Continued**317960 to 318400—Continued**

I'billin, lower Galilee.

318208.	6-82-5-1-8.	318220.	6-82-5-6-1.
318209.	6-82-5-1-9.	318221.	6-82-5-6-2.
318210.	6-82-5-2-1.	318222.	6-82-5-7-1.
318211.	6-82-5-2-2.	318223.	6-82-5-7-8.
318212.	6-82-5-2-3.	318224.	6-82-5-7-9.
318213.	6-82-5-2-6.	318225.	6-82-5-15-1.
318214.	6-82-5-3-1.	318226.	6-82-5-15-2.
318215.	6-82-5-3-6.	318227.	6-82-5-15-3.
318216.	6-82-5-3-7.	318228.	6-82-5-15-8.
318217.	6-82-5-4-1.	318229.	6-82-5-22-1.
318218.	6-82-5-5-6.	318230.	6-82-5-22-3.
318219.	6-82-5-5-9.	318231.	6-82-5-23-1.

Kafir Qasim, Samaritan foothills.

318232. 6-1917-23.

318233. 6-1917-24.

Kefar Alta, Haifa Bay.

318234. 6-93-2-2-21-1. 318239. 6-1789-22.

318235. 6-93-3-31. 318240. 6-1789-23.

318236. 6-93-3-32. 318241. 6-1789-24.

318237. 6-93-4-45. 318242. 6-1789-25.

318238. 6-93-4-47.

Kefar Bialik, Haifa Bay.

318243. 6-1753-1.

318244. 6-1753-2.

Kefar Gallim, coast of Carmel.

318245. 6-1703-1. 318249. 6-1703-27.

318246. 6-1703-23. 318250. 6-1703-28.

318247. 6-1703-24. 318251. 6-1703-30.

318248. 6-1703-25.

Kefar Hanasi, Korazim.

318252. 6-52-2-31-1.

Kefar Hasidim, Haifa Bay.

318253. D65-21.

318254. D65-25.

Kefar Pines, central coastal plain.

318255. 6-1635-1. 318260. 6-1635-23.

318256. 6-1635-2. 318261. 6-1635-24.

318257. 6-1635-3. 318262. 6-1635-25.

318258. 6-1635-21. 318263. 6-1635-27.

318259. 6-1635-22. 318264. 6-1635-28.

317919 to 318400—Continued

317960 to 318400—Continued

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| 318265. 6-1635-30. | 318267. 6-1635-33. |
| 318266. 6-1635-32. | |
| Kerem Maharal, Mount Carmel. | |
| 318268. 6-153-4-1-8. | 318272. 6-153-4-40. |
| 318269. 6-153-4-11. | 318273. 6-1698-2. |
| 318270. 6-153-4-37. | 318274. 6-1698-3. |
| 318271. 6-153-4-39. | |
| Kefar Yehezkiel, valley of Esdraelon. | |
| 318275. 6-1172-1. | |
| Ma'alot, upper Galilee | |
| 318276. 6-2026-21. | |
| Megadim, coast of Carmel. | |
| 318277. 6-1692-22. | |
| Megiddo, valley of Esdraelon. | |
| 318278. 6-1873-21. | 318282. 6-1873-26. |
| 318279. 6-1873-22. | 318283. 6-1873-27. |
| 318280. 6-1873-23. | 318284. 6-1873-28. |
| 318281. 6-1873-25. | 318285. 6-2131-3. |
| Midrakh Oz, valley of Esdraelon. | |
| 318286. 6-216-2-24-1. | 318289. 6-216-2-41. |
| 318287. 6-216-2-33-1. | 318290. 6-216-2-42. |
| 318288. 6-216-2-33-2. | |
| Midreshet Rupin, central coastal plain. | |
| 318291. 6-1576-1. | |
| 318292. 6-1576-2. | |
| Miqwe Yisrael, central coastal plain. | |
| 318293. 6-1629-1. | |
| Muzzuva, upper Galilee. | |
| 318294. D167-25. | |
| Nahshon, Judean foothills. | |
| 318295. 6-1131-1. | |
| Nesher, Haifa Bay | |
| 318296. 6-110-1-36. | |
| 318297. 6-110-1-37. | |
| 318298. 6-110-1-38. | |
| Neveh Ya'ar, lower Galilee. | |
| 318299. 6-2124-1. | |
| 318300. 6-2126-1. | |
| Nordiyya, central coastal plain. | |
| 318301. 6-1835-1. | 318304. 6-1836-1. |
| 318302. 6-1835-2. | 318305. 6-1836-2. |
| 318303. 6-1835-3. | |

317919 to 318400—Continued

317960 to 318400—Continued

N.Tut, plateau of Menashe.

318306.	6-1795-1.	318327.	6-1833-25.
318307.	6-1797-4.	318328.	6-1833-26.
318308.	6-1797-5.	318329.	6-1833-29.
318309.	6-1797-6.	318330.	6-1833-30.
318310.	6-1797-15.	318331.	6-1833-31.
318311.	6-1800-1.	318332.	6-1833-32.
318312.	6-1800-2.	318333.	6-1837-1.
318313.	6-1801-1.	318334.	6-1837-14.
318314.	6-1802-1.	318335.	6-1837-15.
318315.	6-1802-2.	318336.	6-1837-17.
318316.	6-1833-1.	318337.	6-1838-6.
318317.	6-1833-2.	318338.	6-1838-7.
318318.	6-1833-3.	318339.	6-1838-8.
318319.	6-1833-4.	318340.	6-1838-10.
318320.	6-1833-9.	318341.	6-1838-11.
318321.	6-1833-10.	318342.	6-1838-12.
318322.	6-1833-11.	318343.	6-1839-1.
318323.	6-1833-13.	318344.	6-1839-17.
318324.	6-1833-15.	318345.	6-1839-19.
318325.	6-1833-21.	318346.	6-1841-19.
318326.	6-1833-23.		

Pardes-Hana, central coastal plain.

318347. 6-2141-1.

318348. 6-2144-1.

Qiryat Tiv'on, lower Galilee.

318349. 6-2085-1.

Regavim, plateau of Menashe.

318350. 6-1666-21.

Sedot Yam, central coastal plain.

318351. 6-1915-21.

318352. 6-1915-22.

318353. 6-1915-23.

Sha'ar HaAliyya, coast of Carmel.

318354.	6-90-3-2-1.	318362.	6-90-3-5-9.
318355.	6-90-3-2-2.	318363.	6-90-3-6-3.
318356.	6-90-3-2-3.	318364.	6-90-3-6-6.
318357.	6-90-3-2-4.	318365.	6-90-3-6-7.
318358.	6-90-3-4-7.	318366.	6-90-3-6-9.
318359.	6-90-3-5-2.	318367.	6-90-3-7-3.
318360.	6-90-3-5-3.	318368.	6-90-3-17-1.
318361.	6-90-3-5-6.	318369.	6-90-3a-17-1.

317919 to 318400—Continued**317960 to 318400—Continued**

Sharsheret, northern Negev.

318370. 6-1070-1.

Shefar'am, lower Galilee.

318371. 6-94-3-7-6.

318372. 6-94-3-7-7.

318373. 6-105-5-1-6.

Shefer, upper Galilee.

318374. 6-1541-9.

318377. 6-1542-7.

318375. 6-1541-10.

318378. 6-1542-8.

318376. 6-1542-6.

Tal Shaha, Judean foothills.

318379. 6-336-3-9-6.

318380. 6-336-3-24-1.

318381. 6-336-3-24-2.

Tel Yoqne'am, Mount Carmel.

318382. 6-167-5-22-1.

318389. 6-167-5-40.

318383. 6-167-5-22-6.

318390. 6-167-5-46.

318384. 6-167-5-24-8.

318391. 6-168-1-22-6.

318385. 6-167-5-26-1.

318392. 6-168-1-36.

318386. 6-167-5-26-6.

318393. 6-2132-1.

318387. 6-167-5-37.

318394. 6-2132-3.

318388. 6-167-5-38.

318395. 6-2132-4.

Tirat Carmel, coast of Carmel.

318396. 6-1696-1.

318398. 6-1696-3.

318397. 6-1696-2.

318399. 6-1696-22.

Zikhron Ya'acov, Mount Carmel.

318400. 6-939-11.

**318401 to 318404. ARMORACIA LAPATHIFOLIA Gilib. Cruciferae.
Horseradish.**

From Germany. Roots presented by the Max-Planck-Institut, Koln-Vogelsang. Received Jan. 9, 1967.

318401. 'Baiersdorfer'.

318403. 'Laufener'.

318402. 'Hamburger'.

318404. 'Spreewalder'.

**318405 and 318406. ACTINIDIA LATIFOLIA (Gardn. & Champ.)
Merr. Dilleniaceae.**

From France. Cuttings presented by the Service des Cultures du Museum National d'Histoire Naturelle, Paris. Received Jan. 9, 1967.

318405. Female.

318406. Male.

318407 and 318408. PYRUS CALLERYANA Decne. Rosaceae. Callery pear.

From Japan. Seeds collected by Muneo Iizuka, Agricultural Research Station, Ministry of Agriculture and Forestry, Hiratsuka, Kanagawa. Received Jan. 10, 1967.

318407. Tree No. 1.

318408. Tree No. 2.

318409 and 318410. MALUS SYLVESTRIS Mill. Rosaceae. Apple.

From Italy. Budsticks presented by the Instituto di Coltivazioni Arboree, Torino. Received Jan. 10, 1967.

318409. 'Goldjon'.

318410. No. 32C (Golden × Comercio).

318411 to 318414.

From Poland. Cuttings and seeds presented by the Research Institute of Pomology Skierniewice. Received Jan. 17, 1967.

318411. PYRACANTHA sp. Rosaceae. 318413. PYRACANTHA sp.

A. (Cuttings).

A. (Seeds).

318412. PYRACANTHA sp.

318414. PYRACANTHA sp.

B. (Cuttings).

B. (Seeds).

318415 to 318433. CUCURBITA MAXIMA Duchesne Cucurbitaceae. Squash.

From the United States. Seeds presented by A. E. Hutchins, Department of Horticultural Science, University of Minnesota, St. Paul. Numbered Jan. 17, 1967.

318415. No. A-706. Inbred selection No. 1.63, Bush × Greengold. Vigorous, medium maturing, bush. Fruits many, oblate 5 to 6 by 6 to 8 inches, orange or salmon; 3.75 pounds; flesh $\frac{3}{4}$ to 1 $\frac{1}{2}$ inches, orange.

318416. No. A-707. Inbred selection F₁₁, Minnesota No. 2.63, Bush × Greengold. Vigorous, medium maturing, bush. Fruits many, oblate 4 $\frac{1}{2}$ to 5 $\frac{1}{2}$ by 6 $\frac{1}{2}$ to 8 inches, orange or salmon; 4.75 pounds; flesh 1 to 1 $\frac{1}{2}$ inches, orange.

318417. No. A-708. Inbred selection F₁₁, Minnesota No. 3.63, Bush × Greengold. Vigorous, medium maturing, bush. Fruits many, oblate 5 to 6 $\frac{1}{2}$ by 7 $\frac{3}{4}$ inches, orange or salmon; 4.20 pounds; flesh $\frac{3}{4}$ to 1 $\frac{1}{2}$ inches, orange.

318418. No. A-709. Inbred selection F₁₁, No. 4.63, Bush × Greengold. Vigorous, medium maturity, bush. Fruit oblate 4 by 7 to 9 inches, dark green with light stripes; 3.20 pounds; flesh $\frac{1}{2}$ to 1 $\frac{1}{4}$ inches, orange.

318419. No. A-710. Inbred selection F₁₁, No. 5.63, Bush × Greengold. Vigorous, medium maturing, bush. Fruits 6 by 7 $\frac{1}{2}$ to 8 $\frac{1}{4}$ inches, orange or salmon; 3.21 pounds; flesh 1 to 2 inches, orange.

318420. No. A-711. Inbred selection F₁₁, No. 6.63, Bush × Greengold. Vigorous, medium maturing, bush. Fruits many, oblate 5 to 5 $\frac{1}{2}$ by 7 $\frac{1}{2}$ to 9 inches, orange or salmon; 4.82 pounds; flesh 1 to 1 $\frac{1}{2}$ inches, orange.

318421. No. A-712. Inbred line F₁₁, No. 7.63, Bush × Greengold. Vigorous, medium maturing, bush. Fruits many, oblate 4 $\frac{1}{2}$ by 6 $\frac{1}{2}$ to 8 inches, dark green; 3.56 pounds; flesh 1 inch, bright orange.

318422. No. A-713. Inbred line selection F₁₁, No. 8.63, Bush × Greengold. Vigorous, medium maturity, bush. Fruits many, 6 to 7 by 7 to 8 inches, orange or salmon; 3.55 pounds; flesh 1 to 1 $\frac{1}{2}$ inches, orange.

318415 to 318433—Continued

318423. No. A-714. Inbred selection F₁₀, No. 9.63, Bush × Greengold. Vigorous, medium maturing, bush. Fruits many, oblate 4 to 4½ by 7½ to 8 inches, orange or salmon; 3.72 pounds; flesh ¾ to 1½ inches, yellow.
318424. No. A-715. Inbred selection F₁₁, No. 10.63, Bush × Greengold. Vigorous, medium maturing, bush. Fruits many, oblate 5 to 6 by 7 to 8 inches, orange or salmon; 3.57 pounds; flesh 1 to 2 inches, light orange.
318425. No. A-716. Inbred selection F₁₀, No. 11.63, Bush × Greengold. Vigorous, medium maturing, bush. Fruits many, oblate 5 by 7 to 8 inches, orange or salmon; 4.75 pounds; flesh 1 to 2 inches, light orange.
318426. No. A-717. Inbred selection F₁₁, No. 12.63, Bush × Greengold. Vigorous, medium maturity, bush. Fruits many, oblate 5 by 7 to 8 inches, copper; 4.90 pounds; flesh 1 to 2 inches, orange.
318427. No. A-718. Inbred selection F₁₁, No. 13.63, Bush × Greengold. Vigorous, medium maturity, bush. Fruits many, oblate 4 to 5 by 6 to 7¾ inches, copper; 4.47 pounds; flesh 1½ inches, orange.
318428. No. A-719. Male sterile A; Golden Delicious type. Segregates (approximately) 1 normal to 1 male sterile. Vigorous, medium maturing, vining. Fruits many, globose or ovate, 7 to 13 by 9 to 10 inches tapered toward blossom end, orange; 9.4 pounds; flesh 1¼ to 2¼ inches, orange.
318429. No. A-720. Male sterile B. Segregates (approximately) 1 normal to 1 male sterile. Vigorous, medium maturity, semibush. Fruits oblate 7 to 9 by 8 to 12 inches, orange-red; 10 pounds; flesh 1¼ to 2¼ inches, orange.
318430. No. A-721. Male sterile C. Buttercup type. Segregates (approximately) 1 normal to 1 male sterile. Vigorous, medium maturity, medium-sized vines. Fruits many, oblate turbinate 4¼ by 6 to 9 inches, dark green; 4.5 pounds; flesh ¾ to 1¼ inches, orange.
318431. No. A-722. Male sterile D. Kitchenette type. Segregates (approximately) 1 normal to 1 male sterile. Vigorous, medium-sized vine. Fruits many, Green Hubbard shaped, 6 to 8 by 7 to 9 inches, dark green with medium green markings; 4.2 pounds; flesh 1 to 2 inches, light orange.
318432. No. A-723. Male sterile E. Kitchenette type. Segregates 1 normal to 1 male sterile. Large, vigorous, semibush. Fruits obovate, 6½ to 8 by 7 to 9 inches, dark green, medium maturity; flesh ¾ to 1½, light orange.
318433. No. A-724. Male sterile F. Segregates (approximately) 1 normal to 1 male sterile. Vigorous, bush type. Fruits many, oblate, 3 to 4 by 6 to 7 inches, dark green, medium maturity; 2.8 pounds; flesh 1 to 1¼ inches, light orange.

318434. PISUM SATIVUM L. Leguminosae.

Pea.

From the United States. Seeds held at Regional Plant Introduction Station, Ames, Iowa. Original seed obtained from England by Inter-State Nurseries, Hamburg, Iowa. Received Jan. 17, 1967.

No. A-446. 'Sutton's Chieftain'. Plant of medium maturity and vigor. Vine to 30 inches long. Flowers white, single, moderate pod set; peas wrinkled, medium large, green or a few yellow.

318435 and 318436. COLEUS BLUMEI var. VERSCHAFFELTII Lem. Labiatae.

From the United States. Seeds presented by Joseph W. Westbrook, Omaha, Tex. Received Jan. 18, 1967.

318435. No. 1. F₂₅ from seed X-ray irradiated at 100 R.

318436. No. 2. F₂₀ from seed X-ray irradiated at 100 R.

318437 to 318445.

From Great Britain. Tubers presented by J. G. Hawkes, University of Birmingham, Birmingham, England. Numbered Jan. 18, 1967.

318437 and 318438. SOLANUM BRACHISTOTRICHUM (Bitter) Rydb. Solanaceae.

318437. BST H.281—Line 1.

318438. BST H.284—Line 3.

318439. SOLANUM CALVESCENS Bitt.

CLV H.653—Line 4.

318440 and 318441. SOLANUM OPLOCENSE Hawkes

318440. OPL C.P.C. 2116.

318441. OPL H.650.

318442 to 318444. SOLANUM SAMBUCINUM Rydb.

318442. SMB H273/2.

318443. SMB H.275/1.

318444. SMBH.277—Line 1.

318445. SOLANUM VALLIS-MEXICAE Juz.

VLL H.407—Line 4.

318446. PYRUS COMMUNIS L. Rosaceae. **Common pear.**

From Hong Kong. Seeds collected by L. C. Cochran, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Jan. 18, 1967.

Seeds extracted from fruit purchased in market, supposedly imported from interior China. Fruit shaped like 'Comice' but with acuminate neck. Medium number grit cells near core (ref. 'Keiffer'), flavor bland.

318447. ARBUTUS UNEDO L. Ericaceae. **Strawberry tree.**

From Great Britan. Plants purchased from Hillier and Sons, Winchester, England. Numbered Jan. 18, 1966.

'Rubra'.

318448 to 318462. SACCHARUM (hybrid) Gramineae. **Sugarcane.**

From the Dominican Republic. Cuttings presented by the Central Romana Corp., La Romana. Received Jan. 20, 1967.

318448. C.R. 6443.

318456. C.R. 64126.

318449. C.R. 6461.

318457. C.R. 64182.

318450. C.R. 6467.

318458. C.R. 64209.

318451. C.R. 6468.

318459. C.R. 64215.

318452. C.R. 6488.

318460. C.R. 64217.

318453. C.R. 64101.

318461. C.R. 64223.

318454. C.R. 64110.

318462. C.R. 64225.

318455. C.R. 64117.

318463. CORYLUS AVELLANA L. Betulaceae. **Filbert.**

From Turkey. Scions presented by the Ministry of Agriculture, Giresun Filbert Research Institute, Giresun. Received Jan. 10, 1967.

'Tombul'.

318464. GINKGO BILOBA L. Ginkgoaceae. Maidenhair-tree.

From France. Scions presented by the Services Techniques des Parcs et Jardins, Paris. Received Jan. 20, 1967.

'Pendula'.

318465 to 318472.

From Brazil. Seeds presented by Division of Plant Introduction, Instituto Agronomico, Campinas, Sao Paulo. Received Jan. 23, 1967.

318465. ARACHIS HYPOGAEA L. Leguminosae.

'Ameudoin'.

318466. CALOPOGONIUM MUCUNOIDES Desv. Leguminosae.

'Calopogonio'.

318467. DIOCLEA LASIOCARPA Mart. ex Benth. Leguminosae.

'Feijao Bravo do Ceara'.

318468. HELIANTHUS ANNUS L. Compositae.

Sunflower.

'Girassol'.

318469. PHASEOLUS ANGULARIS (Willd.) W. F. Wight Leguminosae.

Adsuki bean.

'Feijao Adzuki'.

318470. PHASEOLUS CALCARATUS Roxb.

Rice bean.

'Feijao Arroz'.

318471. RICINUS COMMUNIS L. Euphorbiaceae.

Castorbean.

'Mamona'.

318472. SESAMUM INDICUM L. Pedaliaceae.

Sesame.

'Gergelin'.

318473 to 318490.

From Israel. Seeds presented by J. Katznelson, Regional Experiment Station Neve-Ya'ar, P.O. Haifa. Original sources are indicated. Numbered Jan. 23, 1967.

318473 to 318476. TRIFOLIUM FRAGIFERUM L. Leguminosae.

Strawberry clover.

318473. NYT 422. Beit Keshet, Israel.

318474. NYT 425. Na'aman, Israel.

318475. NYT 431. Skopje, Yugoslavia.

318476. NYT 436. Rhodos, Greece.

318477. TRIFOLIUM PHYSODES Stev. ex Bieb.

NYT 701. Metzovo, Greece.

318478 to 318480. TRIFOLIUM PRATENSE L.

Red clover.

318478. NYT 719. Klisura, Yugoslavia.

318479. NYT 723. Metzovo, Greece.

318480. NYT 724. Skopje, Yugoslavia.

318481 to 318488. TRIFOLIUM REPENS L.

Whiteclover.

318481. NYT 754. Pendelikon, Greece.

318482. NYT 758. Klisura, Yugoslavia.

318483. NYT 761. Ptolemais, Greece.

318484. NYT 763. Yannina, Greece.

318473 to 318490—Continued**318481 to 318488—Continued**

318485. NYT 764. Kozani-Florina, Greece.
 318486. NYT 765. Skopje-Kumanovo, Yugoslavia.
 318487. NYT 766. Vranje-Leskovac, Yugoslavia.
 318488. NYT 767. Vranje, Yugoslavia.

318489. TRIFOLIUM sp.

NYT 565. Hercegnovi, Yugoslavia.

318490. TRIFOLIUM sp.

NYT 713. Maraton-Thebai, Greece.

**318491 to 318493. SORGHUM BICOLOR (L.) Moench Gramineae.
Kafircorn.**

From Hungary. Seeds presented by Z. Barabas, Agricultural Research Institute, Hungarian Academy of Sciences, Martonvasar, through National Institute of Agrobotany, Taposzele. Received Jan. 23, 1967.

318491. ms6. Male sterile, microanther (mth-2513).
 318492. pgy. Polygynoecious heterozygote (pg-2323-4).
 318493. pgy. Polygynoecious heterozygote (pg-2323-7).

318494 to 318496.

From Great Britain. Seeds presented by Frank P. Knight, Royal Horticultural Society Gardens, Wisley, Ripley, Surrey. Received Jan. 23, 1967.

318494. ROSA ECAE Aitch. Rosaceae. **Eca rose.**
 P.F. 8302.
 318495. ROSA PERSICA Michx. **Persian rose.**
 P.F. 8845.
 318496. ROSA sp.
 P.F. 8816. Large pink, 4 to 6 feet high.

318497 to 318505.

From France. Scions presented by J. P. Nitsch, Phytotron, 91, Gif-sur-Yvette. Numbered Jan. 24, 1967.

318497. CARALLUMA NEWBROWNII A. Berger Asclepiadaceae.
 318498. HOODIA BARKLYI Dyer Asclepiadaceae.
 318499. HOODIA BURKEI N. E. Brown
 318500. HUERNIA ZEBRINA N. E. Brown Asclepiadaceae.
 318501. MUCUNA GIGANTEA (Willd.) DC. Leguminosae.
 318502. PECTINARIA SAXATILIS N. E. Br. Asclepiadaceae.
 318503. SOLANUM MAMMOSUM Linn. Solanaceae.
 318504. STAPELIA PARVIPUNCTATA (N. E. Br.) ex K. Schum Asclepiada-
 caeae.
 318505. STREPTOCARPUS NOBILIS C. B. Clarke Gesneraceae.

318506 and 318507.

From Ghana. Seeds presented by United States Agency for International Development Agricultural Mission to Ghana, Accra. Received Jan. 24, 1967.

318506 and 318507—Continued

318506. *ALLIUM CEPA* L. Liliaceae.

Onion.

'Bawku'. Origin unknown. Common in northern Ghana for many years. Only variety known to flower, seed, produce desirable market product in Ghana.

318507. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae.

Tomato.

'Improved Zuarubgu'. Origin unknown. Consistently productive during all seasons throughout Ghana. Superior to most American varieties in Ghana.

318508 and 308509.

From Greece. Seeds collected by George Sklivanos, Chios and forwarded through Agricultural Attache, Athens. Received Jan. 24, 1967.

318508. *MELILOTUS SEGETALIS* (Brot.) Seringe Leguminosae.

Sweetclover.

Native, uncultivated legume.

318509. *SECURIGERA SECURIDACA* (L.) Deg. & Doerfl. Leguminosae.

Native, uncultivated legume.

318510. *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**

From Thailand. Seeds presented by Richard S. Mann, Center for Uplift of Hill Tribes, P.O. Box 29, Chiangmai. Received Jan. 24, 1967.

Wild, uncultivated.

318511. *TRITICUM AESTIVUM* L. Gramineae.

Wheat.

From Israel. Seeds presented by Volcani Institute of Agricultural Research, Plant Introduction Service, Rehovot. Received Jan. 24, 1967.

Florence × Aurore 8193.

318512 to 318592.

From Korea. Plant material collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Md. For U.S.D.A.-Longwood Gardens Cooperative Program. Numbered Jan. 26, 1967.

318512. *ACER TAKESIMENSE* Nakai Aceraceae.

Col. No. K-44. Mt. Songin Bong, Ullung-do. Elevation 970 meters. Deciduous tree to 10 meters high. Diameter at breast height is about 50 cm. Seedlings.

318513. *ACERIPHYLUM ROSSII* Engl. Saxifragaceae.

Col. No. K-62. Dry streambed at base of Mt. Sorak, Kangwon-do. Low-growing perennial with thick rhizome. Leaves palmately 5 to 9 lobed at ends of rhizomes. Plants.

318514. *ADENOPHORA* sp. Campanulaceae.

Col. No. K-267. On rock cliff along road near Muu Ju. Herbaceous perennial to 1 meter high. Flowers in a graceful raceme, blue. Plants.

318515. *ALLIUM THUNBERGII* G. Don Liliaceae.

Col. No. K-305. Along streambed on trail to Paek Tam Sa, Mt. Sorak. Bulbous perennial. Flowers in umbel, purple. Plants.

318516. *ARUNCUS AETHUSIFOLIUS* (Lév.) Nakai Rosaceae.

Col. No. K-11. In open, wind-swept fields near top of Mt. Halla, Cheju Island. Elevation 1,900 meters. Herbaceous perennial with finely divided leaves. Flowers whitish. Plants.

318512 to 318592—Continued

318517. *ASARUM MACULATUM* Nakai Aristolochiaceae.

Col. No. K-428. In shady moist area along trail up Mt. Halla, Cheju Island. Elevation 750 meters. Fleshy rooted herbaceous perennial. Leaves cordate, mottled. Plants.

318518. *ASTER SPATHULIFOLIUS* Maxim. Compositae.

Col. No. K-53. North coast of Ullung-do, growing on cliff face in open. Elevation 30.5 meters above sea. Herbaceous perennial with fleshy leaves forming rosette. Flowers blue, in heads. Plants.

318519. *CALAMAGROSTIS ARUNDINACEA* var. *BRACHYTRICHA* (Steud.) Hack. Gramineae.

Col. No. K-262. Along trail on Mt. Tok-yu, Ko Chun. Perennial grass to 1 meter high. Flower heads ornamental. Plants.

318520. *CAMPANULA TAKESIMANA* Nakai Campanulaceae.

Col. No. K-55. Above To Dong, Ullung-do. Growing in open areas. Elevation 244 meters. Herbaceous perennial. Leaves roundish. Flowers bell shaped, whitish to magenta. Plants.

318521. *CAREX FUSANENSIS* Ohwi Cyperaceae.

Col. No. K-288. Garden of Professor Tchang Bok Lee, Suwon. Originally from Chunchun, Kangwon-do. Leaves long linear, dark green. Clump forming. Plants.

318522. *CARYOPTERIS INCANA* (Thunb.) Miquel Verbenaceae.

Common bluebeard.

Col. No. K-463. On sea coast 20 km. east of Cheju City. Subfruticose plant. Flowers blue. Plants.

318523. *CHLORANTHUS JAPONICUS* Siebold Chloranthaceae.

Col. No. K-304. In moist shady area along trail to Paek Tam Sa, Mt. Sorak. Herbaceous perennial. Leaves four lobed. Plants.

318524. *CHRYSANTHEMUM SIBIRICUM* Turcz. Compositae.

Col. No. K-299. In open rocky area on Mt. Sokni, Chunchong Pukto. Elevation 610 meters. Herbaceous perennial. Flowers large, white. Plant.

318525. *CHRYSANTHEMUM ZAWADSKII* Herbich

Col. No. K-77. On Taek Wal Yong Mountain, Kangwon-do, growing on open slope; steep, sandy soil. Elevation 800 meters. Low perennial. Leaves finely divided. Inflorescence capitate to 2½ inches across. Lavender pink. Plants.

318526. *CONVALLARIA KEISKEI* Miq. Liliaceae.

Lily-of-the-valley.

Col. No. K-86. Along on Mt. Odai, Kangwon-do, growing in moist, sandy soil in shade. Elevation 823 meters. Rhizomatous herbaceous perennial to ½ meter high. Leaves elliptic, 2 per stem. Plants.

318527. *CYPRIPEDIUM JAPONICUM* Thunb. Orchidaceae.

Col. No. K-527. Tokyo, Japan. Purchased in seed and fruit store. Herbaceous perennial. Plants.

318528. *EUONYMUS FORTUNEI* var. *RADICANS* (Miq.) Rehd. Celastraceae.

Wintercreeper.

Col. No. K-31. Jeu-Dong, Ullung-do at base of pine tree along trail. Elevation 183 meters. Round-leaved, climbing, woody evergreen vine. Cuttings.

318529. *EUONYMUS JAPONICA* Thunb.

Col. No. K-236. Chong Ju. Growing in hotel garden. Evergreen shrub 2½ meters high. Leaves shiny green. Cuttings.

318512 to 318592—Continued

- 318530 and 318531. *FORSYTHIA VIRIDISSIMA* var. *KOREANA* Rehd. Oleaceae.
318530. Col. No. K-177. Near college campus, Suwon. Vigorous deciduous shrub to 2 meters high. Branches arching. Flowers yellow. Cuttings.
318531. Col. No. K-218. Hedge on campus of Agriculture College, Seoul National University, Suwon. Deciduous shrub to 2 meters high. Branches arching. Roots readily at tip. Cuttings.
- 318532 and 318533. *FORSYTHIA OVATA* Nakai
318532. Col. No. K-60. Along trail in sun at edge of woods at base of Mt. Sorak, Kangwon-do. Deciduous shrub to 1½ meters high. Cuttings.
318533. Col. No. K-61. Along trail near streambed at base of Mt. Sorak, Kangwon-do. Deciduous shrub to 1½ meters high. Leaves more round, smaller, darker green than P.I. 318532. Cuttings.
318534. *GENTIANA SCABRA* var. *BUERGERI* (Miq.) Maxim. Gentianaceae.
- Col. No. K-491. Mt. Kwan Ak, An Yang. Growing in grass along trail. Herbaceous perennial. Flowers blue. Plants.
- 318535 and 318536. *GENTIANA UCHIYAMAI* Nakai
318535. Col. No. K-102. In swampy area near Taek Wal Yong Experiment Station, Kangwon-do. Elevation 883 meters. Herbaceous perennial. Leaves linear. Flowers axillary, not open when collected. Plant.
318536. Col. No. K-142. In area of low shrubs along trail on Mt. Chiri, Cholla Nam-do. Elevation 1,494 meters. Herbaceous perennial. Leaves linear. Flowers axillary, blue. Plants.
318537. *GENTIANA* sp.
- Col. No. K-441. In open alpine meadow, Mt. Halla, Cheju Island. Elevation 427 meters. Low herbaceous perennial. Flowers blue. Plants.
- 318538 and 318539. *GERBERA* (hybrid) Compositae.
318538. Col. No. K-524. 'Cleopatra'. Kurume, Japan. Collected at Kurume Branch Horticultural Experiment Station. Herbaceous perennial. Flowers brightest red in field—anemone flowered. Plant.
318539. Col. No. K-525. 'Haru-no-izumi'. Kurume, Japan. Collected at Kurume Branch Horticultural Experiment Station. Herbaceous perennial. Flower color metallic rose. Plants.
318540. *HEDERA RHOMBEA* (Miq.) Bean Araliaceae.
- Col. No. K-21. On road to Cheju, Cheju Island, 16 km. from Sogwipo, on edge of woods. Elevation 495 meters. Trailing evergreen vine. Runners.
318541. *HELONIOPSIS ORIENTALIS* (Thunb.) C. Tanaka Liliaceae.
- Col. No. K-302. Along trail to Paek Tam Sa, Mt. Sorak. Growing in moist bank. Crown forming perennial. Leaves linear. Plants.
- 318542 to 318544. *HEPATICAS ASIATICAS* Nakai Ranunculaceae.
318542. Col. No. K-25. On road to Cheju Island, 20 km. from Sogwipo, in dark moist woods. Elevation 610 meters. Low herbaceous perennial. Leaves tripartite, mottled with silver. Plants.
318543. Col. No. K-83. Along trail on Mt. Odai, Kangwon-do. Usually in moist shade, sandy soil. Elevation 762 meters. Low herbaceous perennial. Leaves three lobed. Plants.
318544. Col. No. K-205. Moist sandy soil in deep shade of mixed deciduous forest, Kwang Nung, Kyunggi-do. Dwarf herbaceous perennial. Leaves three lobed. Small crown. Crowns.

318512 to 318592—Continued

318545. *HOSTA ALBOMARGINATA* (Hook.) Ohwi Liliaceae.

Col. No. K-193. Forest Experiment Station, Kwang Nung, Kyunggi Province. In moist semishade. Herbaceous perennial. Leaves lanceolate. Plants.

318546. *HOSTA LONGIPES* (Fr. & Sav.) L. H. Bailey

Col. No. K-26. On road to Cheju, Cheju Island, 24 km. from Sogwipo. In moist woods usually in open areas. Elevation 640 meters. Herbaceous perennial. Flower stalks to 2 feet. Leaves oblong lanceolate. Flowers lavender purple. Plants.

318547. *HOSTA* sp.

Col. No. K-214. Garden at residence of Professor Tchang Bok Lee, Suwon. Herbaceous perennial to 1 meter high. Flowers large, white. Garden form. Plants.

318548. *HYDRANGEA SERRATA* (Thunb.) DC. Saxifragaceae.

Col. No. K-28. Growing on banks along road in full sun 18 km. from Cheju, Cheju, Island. Elevation 610 meters. Deciduous shrub to 4 feet high. Leaves acuminate, serrate. Flowers blue (both sterile and fertile). Cuttings.

318549. *ILEX CRENATA* f. *MICROPHYLLA* Rehd. Aquifoliaceae.

Col. No. K-13. On south slope of Mt. Halla, Cheju Island, in moist, open, rocky field. Elevation 1,200 meters. Small leaved, evergreen, dwarf shrub with small white flowers. Male plant. Plants.

318550. *IRIS ENSATA* var. *SPONTANEA* (Makino) Nakai Iridaceae.

Col. No. K-12. On south slope of Mt. Halla, Cheju Island, in wet, open field growing with and among rhododendron species. Elevation 1,400 meters. Strap-leaved herbaceous perennial with thick root stocks. Flowers in several shades of purple. Plants.

318551. *IRIS RUTHENICA* Ker

Col. No. K-187. Open grassy fields with stony soil, Kwang Kyo. Leaves long, straplike. Roots wiry. Flowers short, reportedly purple. Plants.

318552. *IRIS SANGUINEA* Donn

Col. No. K-172. Moist pine woods near grave of Korean king, Suwon. Herbaceous perennial. Not seen in flower. Plants.

318553. *IRIS SANGUINEA* Donn

Col. No. K-204. Moist sandy soil in deep shade under mixed deciduous forest. Kwang Nung, Kyunggi-do. Strap-leaved perennial to 7 dm. high. Roots wiry. Flower reportedly yellow. Plant.

318554. *IRIS* sp.

Col. No. K-182. Campus of College, Suwon. Strap-leaved perennial to 1 meter high. Forms large clump. Very floriferous. Said to be yellow flowered. Plants.

318555. *IRIS* sp.

Col. No. K-268. In moist area long trail up Mt. Tok-yu, Ko Chun. Herbaceous perennial. Leaves straplike, to 1 meter long. Plants.

318556. *IRIS* sp.

Col. No. K-273. In moist area near road to Mt. Tok-yu, Ko Chun. Herbaceous perennial with straplike leaves to 1 meter high. Plants.

318557. *IRIS* sp.

Col. No. K-472. Suwon. Growing along edge of rice paddy. Dwarf, lance-leaved, herbaceous perennial. Plants.

318512 to 318592—Continued

318558. *JUNIPERUS CHINENSIS* var. *SARGENTII* Henry Pinaceae.
Sargent juniper.

Col. No. K-9. Open, wind swept east slope at top of Mt. Halla, Cheju Island, with *Empetrum* and grasses. Elevation 1,950 meters. Very low needleleaf evergreen. Prostrate with little evidence of winter damage. Cuttings.

- 318559 and 318560. *LILIUM AMABILE* Palibin Liliaceae.

318559. Col. No. K-125. Growing in open, high shade with grasses on Chung Ke Mountain, Suwon. Elevation 150 meters. Bulbous perennial. Leaves linear. Not seen in flower. Bulb.

318560. Col. No. K-160. Near No Go Dan, Mt. Shiri, Cholla Nam-do. Elevation 1,300 meters. Typical type. Bulbs.

- 318561 and 318562. *LILIUM MIQUELIANUM* Makino

318561. Col. No. K-139. In shade along trail up Mt. Chiri, Cholla Nam-do. Elevation 1,433 meters. Whorled leaf, bulbous perennial. Stem rooting; scales jointed. Bulbs.

318562. Col. No. K-161. Near No Go Dan, Mt. Chiri, Cholla Nam-do, growing with *Lespedeza* and *Sasamorpha*. Elevation 396 meters. Bulbous perennial to 1½ meters. Whorl of leaves at about 1 meter. Stem rooting; jointed scales. Six flowers in a double "umbel." Bulb.

318563. *LILIUM* sp.

Col. No. K-93. On temple grounds, Mt. Odai, Kangwon-do, growing in *Abies* forest. Elevation 700 meters. Bulbous perennial, scales jointed. Stem rooting. Leaves in a single whorl.

318564. *LILIUM* sp.

Col. No. K-111. In dense woods along trail on Mt. Baek Yang, Cholla Nam-do. Elevation 183 meters. Bulbous perennial to 8 dm. Leaves in whorl with one leaf below main whorl; scales jointed. Not seen in flower. Bulb.

318565. *LILIUM* sp.

Col. No. K-123. On drier slope of Chung Ke Mountain, Suwon. Growing in dense shade. Elevation 200 meters. Whorled leaf lily. No stem roots. Scales not jointed. Plants.

318566. *LILIUM* sp.

Col. No. K-234. In moist woods near Pok Chu Sa Temple, Mt. Sokni. Whorled leaf bulbous perennial. Bulb scales jointed. Stems rooting. Bulbs.

318567. *LIRIOPE GRAMINIFOLIA* (L.) Baker Liliaceae.

Col. No. K-110. In moist woods along trail on Mt. Baek Yang, Cholla Nam-do. Elevation 183 meters. Herbaceous perennial. Leaves grasslike. Flowers in a spike, purple. Roots produce small tubers. Plants.

318568. *LIRIOPE SPICATA* Lour.

Col. No. K-173. Moist pine woods near grave of Korean king, Suwon. Herbaceous perennial. About 20 cm. high. Not seen in flower. Plants.

318569. *LYCORIS KOREANA* Nakai Amaryllidaceae.

Col. No. K-120. Along trail on Mt. Baek Yang, Cholla Nam-do, growing in rocky soil in shade. Elevation 427 meters. Bulbous perennial. Flower scape to ½ meter. Flowers 4 in umbel—orange, small. Bulbs.

318570. *MAIANthemum DILATATUM* (Wood) A. Nels. & Macbr. Liliaceae.

Col. No. K-46. On Mt. Songin-Bong, Ullung-do, in dense woods. Elevation 900 meters. Herbaceous perennial with short, thin rhizome. Two shield-shaped leaves on each plant. Plants.

318512 to 318592—Continued

318571. MELANDRIUM sp. Caryophyllaceae.

Col. No. K-99. On grounds of Taek Wal Yong Experiment Station, Kangwon-do. Growing in full sun. Elevation 915 meters. Rosette type perennial. Leaves dark red purple. Not seen in flower. Plant.

318572. MISCANTHUS SINENSIS Anders. Gramineae.

Col. No. K-272. In open areas along trail on Mt. Tok-yu, Ko Chun. Perennial grass to 2 meters high. Flower spike red purple. Plants.

318573. PARNASSIA ALPICOLA Makino Saxifragaceae.

Col. No. K-446. In alpine meadow, Mt. Halla, Cheju Island. Elevation 1,500 meters. Herbaceous perennial. Flowers white. Leaves cordate. Plants.

318574. POLYGONATUM LASIANTHUM Maxim. Liliaceae.

Col. No. K-140. In dense shade along trail on Mt. Chiri, Cholla Nam-do. Elevation 1,403 meters. Herbaceous perennial with fleshy roots. Petioles purple. Plants.

318575. PYROLA JAPONICA Klenze ex Alef. Pyrolaceae.

Col. No. K-243. Woods near Pokchu Sa Temple, Mt. Sokni. Evergreen perennial. Leaves elliptic, veins whitish. Flowers small. Plants.

318576. RHODODENDRON YEDOENSE var. POUKHANENSE Nakai Ericaceae.

Col. No. K-8. Northwest slope Mt. Halla, Cheju Island. Open slopes usually with *R. mucronulatum*. Elevation 1,600 meters. Plants low dense, twiggly. Leaves obovate ciliate, deciduous. Not seen in flower. Cuttings.

318577. RODGERسيا PODOPHYLLA Gray Saxifragaceae.

Col. No. K-108. On road from Taek Wal Yong to Jin Boo, Kangwon-do. Growing on steep slope. Elevation 700 meters. Thick rooted perennial. One large leaf from each tip of rhizome. Not seen in flower. Plants.

318578. ROSA WICHURALANA Crep. Rosaceae.

Col. No. K-27. In open fields near road about 20 km. from Cheju, Cheju Island. Elevation 640 meters. Trailing woody plant. Leaves pinnate, 7 to 9 leaflets. Stems green. Flowers white, single in clusters. Cuttings.

318579. SALIX GRACILIGLANS Nakai Salicaceae.

Col. No. K-196. Forest near Forest Experiment Station, Kwang Nung, Kyunggi-do. Along streambed. Deciduous shrub to 2 meters high. Leaves glaucous beneath. Cuttings.

318580. SALIX KOREENSIS Anders. in DC.

Col. No. K-282. Inchon. Growing on sea coast. Weeping willow to 15 meters high. Leaves linear. Cuttings.

318581. SANGUISORBA HAKUSANENSIS Makino Rosaceae.

Col. No. K-167. No Go Dan, Mt. Chiri, Cholla Nam-do. In alpine meadow. Elevation 1,433 meters. Herbaceous perennial. Leaves pinnately compound. Flowers spicate in shades of red. Plants and seedlings.

318582. SCILLA CHINENSIS Benth. Liliaceae.

Col. No. K-76. On beach south of Yangyang, Kangwon-do. In moist area, common. Bulbous perennial. Flowers in a spike, purplish. Apparently wide spread. Bulbs.

318583. SEDUM sp. Crassulaceae.

Col. No. K-54. On north coast of Ullung-do, growing on open cliff face. Elevation 152 meters. Clump-forming herbaceous plant. Leaves short, roundish, fleshy. Flowers yellow. Plants.

318512 to 318592—Continued

318584. *SELAGINELLA INVOLVENS* (Sw.) Spring Selaginellaceae.

Col. No. K-117. On Mt. Baek Yang, Cholla Nam-do. Growing on open cliff faces. Elevation 488 meters. Flat-leaved evergreen. Roots very fibrous. Comparable to our "Resurrection plant." Plants.

318585. *SPIRAEA SALICIFOLIA* L. Rosaceae. Willowleaf spirea.

Col. No. K-85. On grounds of Buddhist Temple, Mt. Odai, Kangwon-do. Growing in open. Elevation 945 meters. Deciduous shrub to 1½ meters high. Leaves lanceolate. Flowers in a terminal panicle, pink. Cuttings.

318586. *SPIRANTHES SINENSIS* (Pers.) Ames. Orchidaceae.

Col. No. K-1. 'Ta Rai Nan Cho'. On north slope of Mt. Halla, Cheju Island. Open, marshy, field. Elevation 600 meters. Small, terrestrial, white-flowered orchid. Roots fleshy. Plants.

318587. *SYRINGA AMURENSIS* Rupr. Oleaceae. Manchurian lilac.

Col. No. K-88. Along trail on Mt. Odai, Kangwon-do. In semishade. Elevation 854 meters. Deciduous shrub to 1 meter high. Possibly a dwarf form of the species. Plant.

318588. *THALICTRUM ACTAEIFOLIUM* Sieb. & Zucc. Ranunculaceae.

Col. No. K-109. Along trail on Mt. Baek Yang, Cholla Nam-do. Growing in rocky soil in shade. Elevation 305 meters. Herbaceous perennial. Leaves twice compound, leaflets in threes. To 1 meter high. Flowers lilac to purple. Plants.

318589. *THALICTRUM UCHIYAMAI* Nakai

Col. No. K-100. In swampy area near Taek Wal Yong Experiment Station, Kangwon-do. Elevation 883 meters. Tall herbaceous perennial. Flowers in terminal panicle; blue purple. Leaves divided. Plants.

318590. *TRIFOLIUM LUPINASTER* L. Leguminosae.

Col. No. K-7. Northwest slope Mt. Halla, Cheju Island. Open, moist slopes. Elevation 1,500 meters. Herbaceous perennial, repent, crown branching. Flowers purple, 8 in umbel. Leaves digitately five compound. Crowns.

318591. *VALERIANA DAGELETIANA* Nakai ex Maekawa Valerianaceae.

Col. No. K-4. Northwest slope Mt. Halla, Cheju Island. Open, moist slopes. Elevation 1,450 meters. Herbaceous perennial, to 8 dm. high. Leaves pinnately compound. Flowers lilac, in flat-topped corymb. Plants.

318592. *VIOLA CHAEROPHYLLOIDES* (Regel) Makino Violaceae.

Col. No. K-122. On steep, shady, moist slope of Chung Ke Mountain, Suwon. Elevation 200 meters. Herbaceous perennial to 2 dm. high. Leaves tripartite, basal lobes split. Stemless. Not seen in flower. Plants.

318593. *SOLANUM TUBEROSUM* L. Solanaceae. **Potato.**

From Spain. Tubers presented by D. Antonio Garcia Orad, Vitoria. Received Jan. 30, 1967.

'Irish Cobbler'. Virus "X" free.

318594 and 318595.

From England. Plants purchased from Hillier and Sons, Winchester. Received Jan. 30, 1967.

318594. *ACER ARGUTUM* Maxim. Aceraceae. **Maple.**

318595. *CELTIS SINENSIS* Pers. Ulmaceae.

318596 to 318599.

From the Netherlands. Seeds presented by H. Sleumer, Rijksherbarium, Nonnensteeg, Leiden. Received Feb. 1, 1967.

318596 to 318599—Continued

318596. RHODODENDRON CULMINICOLUM F. Muell. Ericaceae.

Obtained from Lae Botanical Garden.

318597. RHODODENDRON GAULTHERIIFOLIUM J. J. Smith

NGF 24818.

318598 and 318599. RHODODENDRON YELLIOTTII Warb.

318598. Obtained from Lae Botanical Garden.

318599. NGF 24877.

318600. HELIANTHUS ANNUS L. Compositae. Sunflower.

From the Union of Soviet Socialist Republics. Seeds presented by the Agricultural Attache, American Embassy, Moscow to Cargill Seeds, Inc., Minneapolis, Minnesota. Received Jan. 11, 1967. Numbered Feb. 1, 1967.

'Peredovic'. Reported to be an improved selection from the older standard variety of the same name.

318601 to 318606.

From Switzerland. Seeds presented by S. V. Badoux, Stations Federales d'Essais Agricoles, Domaine du Chateau de Changins, Lausanne. Received Feb. 1, 1967.

318601. ONOBRYCHIS TRANSCAUCASICA Grossh. Leguminosae.

East European population, multiplied in isolated plot.

318602 to 318606. ONOBRYCHIS VICIFOLIA Scop. Sainfoin.

318602. 'Premier'. Swiss local population of common type persistent in this country.

318603. 'Perly'. Improved (mass selection), Swiss local population of 'giant' type.

318604. 'Pologne'. Polish population.

318605. Cross 8/165. Cross Swiss local \times *O. transcaucasica*. Open pollinated multiplied.

318606. Cross 9/165. Cross Swiss local \times *O. transcaucasica*. Open pollinated multiplied.

318607 to 318623.

From India. Seeds presented by the Director, Sugarcane Breeding Institute, Coimbatore. Received Feb. 1, 1967.

318607 to 318613. ERIANTHUS ELEPHANTINUS Hook. f. Gramineae.

318607. S.E.S. 192.

318611. S.E.S. 283.

318608. S.E.S. 193.

318612. S.E.S. 305.

318609. S.E.S. 265.

318613. S.E.S. 361.

318610. S.E.S. 273.

318614 and 318615. ERIANTHUS MUNJA (Roxb.) Jeswiet

318614. S.E.S. 292.

318615. Unnumbered.

318616. ERIANTHUS RAVENNAE (L.) Beauv.

E. M. Karnal.

318617 to 318623. SACCHARUM (hybrid) Gramineae. Sugarcane.

318617. C.P. 48-103 \times I.A. 1231.

318618. C.P. 52-68 \times I.A. 1145.

318607 to 318623—Continued**318617 to 318623—Continued**

318619. C.P. 52-68 × I.A. 1190.

318620. C.P. 52-68 × I.A. 1219.

318621. C.P. 52-68 × I.A. 1231.

318622. I.A. 880 × C.P. 52-68.

318623. I.A. 1060 × C.P. 52-68.

318624 to 318626. VACCINIUM VITIS-IDAEA L. Ericaceae.

From the Netherlands. Cuttings presented by the Instituut voor Veredeling van Tuinbouwgewassen, Wageningen. Received Feb. 6, 1967.

318624. No. 1.

318625. No. 2.

318626. No. 3.

318627 to 318630. PUNICA GRANATUM L. Punicaceae.**Pomegranate.**

From Iran. Cuttings presented by Walter J. Kaiser, United States Agency for International Development, Teheran. Received Feb. 6, 1967. Collected near the town of Saveh.

318627. 'Alak'. Pericarp thin, red; plup red, juicy, sour. Early maturing in August and September.

318628. 'Malas'. Pericarp thin, red; pulp dark red, juicy, sour. Large, late variety maturing in September and October. Preferred by growers in the Saveh area and grown most widely.

318629. 'Shirin'. Pericarp thin, white; pulp white, juicy, sweet. Early maturing in August and September.

318630. 'Tabestani'. Pericarp thin, red; pulp white and not juicy. Early maturing in August and September.

318631. LIGUSTRUM VULGARE L. Oleaceae. European privet.

From Germany. Plants presented by W. Kordes & Son, Holstein. Received Feb. 7, 1967.

318632. CHAMAECYPARIS OBTUSA f. SANDERI (Sander) Rehd. Pinaceae.

From England. Scions collected by J. W. Archer, Doone Valley, Wrecclesham, Faraham. Received Nov. 10, 1966. Numbered Feb. 6, 1967.

318633. LIRIODENDRON CHINENSE (Hemsl.) Sargent Magnoliaceae.

From England. Cuttings presented by the Royal Botanic Gardens, Kew, Richmond, Surrey. Received Feb. 14, 1967.

1908 H.K.

318634 to 318636. SACCHARUM (hybrid) Gramineae.**Sugarcane.**

From Barbados. Cuttings presented by the West Indies Central Sugar Cane Breeding Station, Groves, St. George. Received Feb. 14, 1967.

318634. B 5789.

318635. B 5840.

318636. B 6130.

318637 to 318641.

From Korea. Seeds received through PL 480 Project A13-CR-1, New Crops Research Branch, Crops Research Division, Beltsville, Maryland. All collected October 1966 in vicinity of Suwon, Kyunggido Province. Numbered Feb. 14, 1967.

318637. *LESPEDEZA BICOLOR* Turcz. Leguminosae.

'Ssari'.

318638. *LESPEDEZA DAURICA* (Laxm.) Schindler

'Ho-bisoori'.

318639. *LESPEDEZA* × *DIVARICATA* (Nakai) T. B. Lee

'Tchung-bisoori'.

318640. *LESPEDEZA INSCHANICA* (Maxim.) Schindl.

'Dang-bisoor'.

318641. *LESPEDEZA TOMENTOSA* (Thunb.) Sieb. ex Maxim.

'Gae-ssari'.

318642 to 318644. ORYZA SATIVA L. Gramineae. Rice.

From Japan. Seeds presented by National Institute of Agricultural Sciences, Division of Genetics, Hiratsuka, Kanagawa. Numbered Feb. 14, 1967.

318642. 'Chugoku 31'.

318643. 'Hoyoku'.

318644. 'Reimei'.

318645 and 318646. ORYZA SATIVA L. Gramineae. Rice.

From Guyana. Seeds presented by M. S. Pawar, Food and Agriculture Organization Rice Geneticist, Central Agricultural Station, Mon Repos, East Coast, Demerara. Numbered Feb. 14, 1967.

318645. B.G. 60/44.

318646. B.G. 60/47.

318647 to 318651.

From Israel. Seeds presented by Daniel Zohary, Department of Botany, The Hebrew University of Jerusalem. Numbered Feb. 14, 1967.

318647. *AEGILOPS LONGISSIMA* Schweinf. & Muschl. Gramineae. Goatgrass.

No. 6012. Origin Negev, Israel.

318648. *AEGILOPS SPELTOIDES* Tausch Goatgrass.

No. 6001. Origin Mt. Carmel, Israel.

318649. *HORDEUM BULBOSUM* L. Gramineae. Bulbous barley.

Twenty-five km. north of Yannina, Greece. Diploid type (2n=14).

318650. *SECALE ANCESTRALE* Zhuk. Gramineae.

Aidin, near Izmir, Turkey. Brittle type close to *cereale*.

318651. *SECALE MONTANUM* Guss. Mountain rye.

Eighty km. southeast of Bolu, Turkey on Ankara-Istanbul road.

318652. ILEX AQUIFOLIUM L. Aquifoliaceae. English holly.

From Norway. Seeds presented by Oddvin Reisaeter, Noregs Landbrukshøgskule, Institutt for Dendrologi og Planteskuledrift, Vollebakk. Numbered Feb. 14, 1967.

Collected in Olve, in Hordaland.

318653. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

From the United States. Seeds presented by R. T. Correa, Texas Agricultural Substation No. 15, Weslaco, Tex. Numbered Feb. 14, 1967.

'Big River Bush'. Dwarf-internode type.

318654 and 318655.

From Korea. Seeds presented by Tchang Bok Lee, College of Agriculture, Seoul National University, Suwon. Numbered Feb. 14, 1967.

318654. *BETULA CHINENSIS* Maxim. Betulaceae.

Origin Kwang-Nung.

318655. *PICEA KOYAMAI* Shiras. Pinaceae.

Origin Kwang-Nung.

318656 to 318658.

From Japan. Seeds presented by Masaaki Kunishige, Kurume Branch, Horticultural Research Station, Miimachi, Kurume. Numbered Feb. 15, 1967.

318656. *RHODODENDRON RETICULATUM* D. Don ex G. Don Ericaceae.

318657. *RHODODENDRON JAPONICUM* (Gray) Schneid. Japanese azalea.

Will segregate some *R. japonicum* f. *flavum*.

318658. *RHODODENDRON KIUSIANUM* Makino

318659. GAZANIA PINNATA Less. Compositae.

From the Republic of South Africa. Seeds presented by Bloem-Erf Wildflower Nurseries, Stellenbosch, Cape Province. Numbered Feb. 15, 1967.

Red flowering.

318660 to 318668.

From India. Seeds presented by Lloyd Botanic Garden, Darjeeling, West Bengal. Numbered Feb. 15, 1967.

318660. *ILEX INSIGNIS* Hook. f. Aquifoliaceae.

Holly.

318661. *ILEX WIGHTIANA* Wall. ex Wight

318662. *MAGNOLIA CAMPBELLII* Hook. f. & Thoms. Magnoliaceae.

Pink.

318663. *MICHELIA CATHCARTII* Hook. f. & Thoms. Magnoliaceae.

318664. *MICHELIA EXCELSA* Blume

318665. *MICHELIA LANUGINOSA* Wall.

318666. *VIBURNUM CORIACEUM* Blume Caprifoliaceae.

318667. *VIBURNUM ERUBESCENS* Wall. ex DC.

318668. *VIBURNUM STELLULATUM* Wall. ex DC.

318669. ENTOLASIA IMBRICATA Stapf Gramineae.

From Kenya. Seeds presented by J. G. Boonman, The National Agricultural Research Station, Kitale. Numbered Feb. 17, 1967.

No. K 6076.

318670 and 318671. TRITICUM AESTIVUM L. Gramineae.

From Pakistan. Seeds presented by Department of Entomology, West Pakistan Agricultural University, Lyallpur. Numbered Feb. 17, 1967.

318670. 'Indus 66'. Mexican origin.

318671. 'Mexi-Pak'. Mexican origin; white.

318672 and 318673.

From Brazil. Vegetative stocks presented August 31, 1965 by Instituto Agronomico do Estado de Sao Paulo, Campinas. Plants propagated by Oilseeds and Industrial Crops Research Branch, Beltsville, Maryland. Numbered Feb. 20, 1967.

318672. *ARACHIS GLABRATA* Benth. Leguminosae.
V. 355.

318673. *ARACHIS VILLOSA* var. *CORRENTINA* Burkart
V. 359.

318674 and 318675. *FRAGARIA* (hybrid). Rosaceae.

From England. Plants presented by the John Innes Institute, Bayfordsbury, Mertford, Mertfordshire. Received Feb. 20, 1967.

318674. 'Cambridge Favourite'.

318675. 'Merton Herald'.

318676. *GOSSYPIUM HIRSUTUM* L. Malvaceae. **Upland cotton.**

From Kenya. Seeds presented by J. S. Breckell, Anderson, Clayton & Hunt (Cotton Brokers) Ltd., Nairobi. Numbered Feb. 20, 1967.

Strict middling grade, irregular staple.

318677. *BETA VULGARIS* L. Chenopodiaceae. **Sugar beet.**

From England. Seeds presented by National Institute of Agricultural Botany, Huntingdon Road, Cambridge. Numbered Feb. 20, 1967.

'Maris Vanguard'.

318678 to 318683.

From Italy. Scions presented by the Instituto di Coltivazioni Arboree dell'Universita di Torino, Torino. Received Feb. 20, 1967.

318678 to 318682. *CORYLUS AVELLANA* L. Betulaceae. **Filbert.**

318678. 'Du Bearn'. **318681.** 'Payrone'.

318679. 'Northamptonshire'. **318682.** 'San Giovanni'.

318680. 'Palla grossa'.

318683. *MALUS SYLVESTRIS* Mill. Rosaceae. **Apple.**
(Golden Delicious × Jonathan).

318684. *VITIS LONGII* var. *MICROSPERMA* (Munson) Bailey **Vitaceae.**

From France. Cuttings presented by the Ecole Nationale Superieure, Agronomique De Montpellier, Montpellier. Received Feb. 20, 1967.

318685. *PHASEOLUS ATROPURPUREUS* DC. Leguminosae.

From Australia. Seeds presented by the Arthur Yates & Co., Ltd., Sydney. Numbered Feb. 20, 1967.

'Siratro'.

318686 to 318690.

From the Philippines. Seeds collected by D. E. Weibul, Agronomy Department, Oklahoma State University, Stillwater, Okla. Numbered Feb. 20, 1967.

318686. *CASSIA ALATA* L. Leguminosae. **Ringworm cassia.**
'Acapulca'. Makilala, Cotabato. December 1966.

318686 to 318690—Continued

318687. *SORGHUM BICOLOR* (L.) Moench Gramineae. **Kafircorn.**

'Bucacao'. Near Tarlac. Native Philippine sorghum; 9 feet tall, glumes awned, involute and nearly covering seed. Open drooping panicle, seed light or white, waxy. November 1966.

318688. *SORGHUM* sp.

Canlubang Sugar Estate, Canlubang, Laguna. Plant 8 feet tall, long lanceolate leaves, saw edges; yellow midrib, open panicle, awnless; small seeds. December 1966.

318689. *SORGHUM* sp.

Aroman Experiment Station, Bolakan, Cotabato. Closely resembles P. I. 318688.

318690. *ZEA MAYS* L. Gramineae. **Corn.**

'Moco Bogo'. Local variety from Bureau of Plant Industry Economic Garden, Los Banos, Laguna. Originally from Cotabato. Small ears, conical shaped; kernels flinty. January 1967.

318691 to 318703. *PHASEOLUS VULGARIS* L. Leguminosae.**Common bean.**

From Mexico. Seeds collected in 1966 by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Feb. 21, 1967.

318691. Col. No. 22042. 'Frijol'. Twenty-one miles southeast of Ciudad Durango along Route 45 by water-marked cliffs. Elevation 6,000 feet. Grassland; fertile clay soil with talus rocks. Vigorous annual vines, trailing. Calyx and flowers green at base; petals pink; pods slender, pale green or green brindled purple, slightly succulent, abundant locally. Seed small, yellow; November 2.

318692. Col. No. 22153. Ten miles south of Uruapan, Michoacan along road to Apatzingan; rocky, brushy, moist canyon. Elevation 4,400 feet. Vine running up on shrubs; perennial with long racemes of small pods; wings reddish lavender, banner purple in bud. Fruits pendulent. Seed very small, dark gray to brown, mottled; December 1-15, 1966.

318693. Col. No. 22180. Two miles northeast of La Garrita, about 10 miles east of Tamazula, Jalisco. On moist brushy slope above cane fields. Elevation 4,200 feet. Slender vines climbing on leafy shrubs; pods small, green, hanging amid welter of foliage. Abundant west of town. Seed very small, brown to gray mottled; December 1-5, 1966.

318694. Col. No. 22187. Three miles west of San Marcos on lower slope of Volcan de Colima, Jalisco. On volcanic ash and lava, fine silty soil. Elevation 4,600 feet. Thinly scattered on burned area. Small annual vines climbing on shrubs. Flowers lavender. Seed very small, brownish gray, mottled; December 1-15, 1966.

318695. Col. No. 22189. Canyon in southwest footslope of Volcan de Colima, two miles north of Cofradia de Suchistlan, Colima. Elevation 4,500 feet. Perennial vine; old stem light gray; pods unusually small, green. Flowers pink, large. Common. Seeds very small, dark brown and cinnamon; December 15-30.

318696. Col. No. 22199. Six miles south of Tecalitlan, Jalisco, along road to Colima. Rocky igneous slope with secondary brushy vegetation. Elevation 4,000 feet. Short-lived perennial vines on shrubs; pods small, brindled with red or purplish. Seeds very small, gray mottled with dark stripe; December.

318697. Col. No. 22202. Three miles south of Ciudad Guzman, Jalisco, along road to Colima. Weathered lava with *Ipomoea* trees, *Hyptis* and other shrubs. Elevation 5,000 feet. Perennial vines on shrubbery. Pods small. Seed very small, gray mottled; November 23.

318691 to 318703—Continued

318698. Col. No. 22234. 'Frijolillo'. Three miles southeast of Tetitlan, Nayarit on edge of lava beds. Elevation 2,700 feet. Perennial vine; pods to 10 cm. long, large, brindled. Seeds small, light gray; November 24-30.

318700. Col. No. 22241. Lagunilla, nine km. east of Santa Maria del Oro, Nayarit. On straight road to lake. Elevation 2,500 feet. Perennial vines climbing on *Acacia*, *Jatropha curcas*, *Celtis iguanea*, etc. Pods to 4 inches long, brindled, plain; seeds small, shiny, gray to brown, mottled; November 26.

318701. Col. No. 22260. 'Frijol de coyote'. Cirimicuaro, 10 miles east of Uruapan, Michoacan. Lava field with secondary vegetation. Elevation 4,300 feet. Vines small, pods small. Abundant. Not eaten locally. Seeds very small, grayish brown.

318701. Col. No. 22266. La Garrita, Jalisco. Elevation 4,000 feet. Single vine twined on *Acacia farnesiana*, no leaves. Seeds lavender, speckled, larger than others in these collections, in large, modernlike pod. December 4. Rare, one plant only.

318702. Col. No. 22274. Eleven miles northwest of Ixtlan del Rio, Nayarit. Edge of lava field. Elevation 3,350 feet. Small dry vines; pods mature, dry, pale yellow; on *Verbesina* and *Hyptis* shrubs. Seeds small, gray, mottled.

318703. Col. No. 22277. Three and one-half miles east of Copala along road to Durango, Sinaloa. Shaded slope with secondary vegetation. Elevation 3,200 feet. Small dry vines; pods dry; seeds small, variable gray, December 7.

318704. ORBIGNYA BARBOSIANA Burret Palmae. Babassu nut.

From Guatemala. Seeds presented by T. T. Miller, McCormick and Company, Baltimore, Maryland. Numbered Feb. 21, 1967.

Grown in Coban region.

318705 to 318709.

From the Union of Soviet Socialist Republics. Seeds presented by the All-Union Institute of Plant Industry, Leningrad. Numbered Feb. 21, 1967.

318705. *BETULA ERMANNII* Champ. Betulaceae.

Arkhangelsk region.

318706. *BETULA HUMILIS* Schrank

Voronezh region.

318707. *BETULA MIDDENDORFFII* Trautv. & Mey. in Middend.

Voronezh region.

318708. *JUGLANS REGIA* L. Juglandaceae.

Persian walnut.

Village of Strade; L'vov region. From tree 28-30 years old, growing in sandy loam. Height 12 meters, diameter about 35 centimeters; never damaged by low temperatures.

318709. *PINUS ELДАРICA* Medw. Pinaceae.

Pine.

Baku region.

318710 to 318714.

From the Union of Soviet Socialist Republics. Seeds presented by the All-Union Institute of Plant Industry, Leningrad. Collected in 1966 by Department of Dendrology, Botanical Garden, Ukrainian Academy of Sciences, Kiev. Numbered Feb. 21, 1967.

318710. *BETULA DAVURICA* Pall. Betulaceae.

Dahurian birch.

318710 to 318714—Continued318711. *BETULA ERMANNII* Champ.318712. *BETULA HUMILIS* Schrank318713. *BETULA PLATYPHYLLA* Sukatchev

Asian white birch.

318714. *BETULA SCHMIDTII* Regel

Schmidts birch.

318715 and 318716. COFFEA ARABICA L. Rubiaceae.

Arabian coffee.

From Ethiopia. Seedlings presented by V. Nastasi, Technical Director, Department of Agriculture, Asmara, Eritrea. Received October, 1966. Numbered Feb. 21, 1967.

318715. 'Ennarea'. Faghena Experiment Station.

318716. 'Moka'. Faghena Experiment Station.

318717 to 318727. HIBISCUS CANNABINUS L. Malvaceae. Kenaf.

From France. Seeds presented by M. Arnoux, Institut National des Plantes Recherches Agronomique, Montpellier (Herault). Received through F. D. Wilson, Texas A. & M. University, College Station, Texas. Numbered Feb. 23, 1967.

Originally from Iran.

318717. Florida No. A65-622. Iran 1. Bulk sample.

318718. Florida No. A65-623. Iran 2, plant 1.

318719. Florida No. A65-624. Iran 2, plant 3.

318720. Florida No. A65-625. Iran 2. Bulk sample.

318721. Florida No. A65-626. Iran 3. Bulk sample.

318722. Florida No. A65-627. Iran 4. Bulk sample.

318723. Florida No. A65-656. Iran local.

Originally from the Soviet Union.

318724. Florida No. A65-657. Caucasus No. 235.

318725. Florida No. A65-658. Caucasus No. 237.

318726. Florida No. A65-659. Krasnodar No. 428.

318727. Florida No. A65-660. Caucasus No. 432.

318728. ZEA MAYS L. Gramineae.

Corn.

From Brazil. Seeds presented by Escola Superior de Agricultura, Piracicaba. Numbered Feb. 23, 1967.

'Doce de Cuba'.

318729 to 318744. ARACHIS HYPOGAEA L. Leguminosae.

From the Republic of South Africa. Seeds presented by J.P.F. Sellschop, College of Agriculture, Potchefstroom. Numbered Feb. 23, 1967.

318729. 44 G 346.

318737. P 4865.

318730. 51 G 510.

318738. P 4990.

318731. 64 G 195.

318739. P 5195.

318732. 64 G 202.

318740. E63/84/65/63.

318733. 64 G 204.

318741. Sel. 5.

318734. 64 G 208.

318742. Mutjan.

318735. 64 G 280.

318743. Namash.

318736. P 4166.

318744. Nelson Spanish.

318745. MALUS SYLVESTRIS Mill. Rosaceae. Apple.

From England. Scions presented by the National Fruit Trials, Faversham, Kent. Received Feb. 24, 1967.

'Holstein'.

318746. THUAREA INVOLUTA (G. Forst.) R. Br. ex Roem. & Schult. Gramineae.

From New Caledonia. Stolons presented by the South Pacific Commission, Noumea. Received Feb. 27, 1967.

Collected by Dr. Schmid, Centre ORSTOM, Noumea.

318747. CHLORIS GAYANA Kunth Gramineae. Rhodesgrass.

From Uganda. Seeds presented by Serere Experiment Station, Department of Agriculture, Soroti. Numbered Feb. 28, 1967.

'Teso'. Collected in general vicinity of the Research Station. Elevation 3,700 feet.

318748. CYTISUS NIGRICANS L. Leguminosae. Spike broomcorn.

From Germany. Seeds presented by Hess. Lehr-Und Forschungsanstalt fur Wein, Obst-Und Gartenbau, 6222 Geisenheim (Rheingau). Numbered Feb. 28, 1967.

318749 to 318755.

From the Philippines. Seeds collected January 1967, by D. E. Weibul, Agronomy Department, Oklahoma State University, Stillwater, Okla. Numbered Feb. 28, 1967.

318749. COIX LACRYMA-GOBI L. Gramineae. Jobs-tears.

University of Philippines, College of Agriculture, Los Banos, Laguna.

318750. ELEUSINE CORACANA (L.) Gaertn. Gramineae. Ragi.

Bureau of Plant Industry Economic Garden, Los Banos, Laguna.

318751. PANICUM MILIACEUM L. Gramineae. Proso millet.

Bureau of Plant Industry Economic Garden, Los Banos, Laguna.

318752. SETARIA ITALICA (L.) Beauv. Gramineae. Foxtail millet.

Bureau of Plant Industry Economic Garden, Los Banos, Laguna. Glutinous.

318753 and 318754. SORGHUM BICOLOR (L.) Moench Gramineae. Kafircorn.

318753. Anao, Tarlac. Outcross in Feterita. Sienna glume, light red seed awns.

318754. 'Feterita'. Anao, Tarlac.

318755. SORGHUM sp.

One half km. inside guard gate of Hacienda Luisita, Tarlac, Tarlac.

318756 and 318757. NICOTIANA TABACUM L. Solanaceae. Tobacco.

From Colombia. Seeds collected by Gilberto Varela L., Colombian Tobacco Institute and presented through the Office of the Agricultural Attache, American Embassy, Bogota. Numbered Feb. 28, 1967.

318756. 'Costillo Habano'. Espinal, Tolima Department. March 1966.

318757. 'Costello Negro'. Flandes, Tolima Department. February 1966.

318758 to 318794. SACCHARUM (hybrid) Gramineae. Sugarcane.

From India. Cuttings presented by the Director, Sugarcane Breeding Institute, Coimbatore. Received Feb. 28, 1967.

318758. Desi Pounda	318777. I.A. 1303.
318759. Co. L. 29.	318778. I.A. 1344.
318760. Co. 607.	318779. I.A. 1352.
318761. Co. 785.	318780. I.A. 1368.
318762. Co. 807.	318781. I.A. 1390.
318763. Co. 970.	318782. I.A. 1425.
318764. Co. 975.	318783. I.A. 1479.
318765. Co. 1148.	318784. I.A. 1481.
318766. Co. 1287.	318785. I.A. 1499.
318767. Co. 1295.	318786. I.A. 1517.
318768. Co. 1296.	318787. I.A. 1523.
318769. Co. 6602.	318788. SES 183.
318770. Co. 6604.	318789. SES 184B.
318771. Co. 62174.	318790. SES 199B.
318772. I.A. 133.	318791. SES 248.
318773. I.A. 145.	318792. SES 323.
318774. I.A. 996.	318793. SES 366.
318775. I.A. 1046.	318794. SES 373. (Rooted).
318776. I.A. 1141.	

318795 to 318799.

From Sweden. Scions presented by the Agricultural College of Sweden, Alnarp. Received Mar. 3, 1967.

318795 to 318797. PRUNUS AVIUM L. Rosaceae.	Sweet cherry.
318795. 'Drogsperyd'.	
318796. 'Erienne'.	
318797. 'Orelund'.	
318798 and 318799. PRUNUS DOMESTICA L.	Common plum.
318798. 'Mallard'.	
318799. 'Tuna'.	

318800 to 318821.

From Ghana. Seeds presented by Botany Department, University of Ghana, Legon. Numbered Mar. 3, 1967.

318800. CANNA INDICA L. Cannaceae.	
318801. CASSIA MIMOSOIDES L. Leguminosae.	
318802. CASSIA OCCIDENTALIS L.	
318803. CENTROSEMA PUBESCENS Benth. Leguminosae.	
318804. COIX LACRYMA-JOBI L. Gramineae.	Jobs-tears.
318805. CROTALARIA GOREENSIS Guill. & Perr. Leguminosae.	
318806. DESMODIUM VELUTINUM (Willd.) DC. Leguminosae.	
318807. HELIOTROPIMUM INDICUM L. Boragineae.	

318800 to 318821—Continued

318808. *INDIGOFERA ARRECTA* Hochst. Leguminosae.
 318809. *IXORA COCCINEA* L. Rubiaceae.
 318810. *IXORA DUFFII* T. Moore.
 318811. *MUSSAENDA ERYTHROPHYLLA* Schum. & Thonn. Rubiaceae.
 318812. *PANICUM MAXIMUM* Jacq. Gramineae. **Guineagrass.**
 318813. *SESBANIA GRANDIFLORA* (L.) Poir. Leguminosae.
 318814. *TEPHROSIA ELEGANS* Schum. Leguminosae.
 318815. *TEPHROSIA PURPUREA* (L.) Pers.
 318816. *TEPHROSIA PURPUREA* (L.) Pers.
 318817. *TEPHROSIA NOCTIFLORA* Bojer
 318818. *VERNONIA CINEREA* Less Compositae.
 318819. *VERNONIA COLORATA* Drake
 318820 and 318821. *VIGNA SINENSIS* (Torner) Savi Leguminosae.
 318820. No. 1.
 318821. No. 2.

318822 to 318832.

From Mexico. Seeds collected October–November 1966 by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered Mar. 3, 1967.

- 318822 to 318824. *CUCURBITA MOSCHATA* Duchesne ex Poir Cucurbitaceae.
Cushaw.
 318822. Col. No. 22011. 'Chichicoyote'. Short-tree forest near Arroyo de Turass, Rio Mayo, Sonora. Elevation 2,000 feet. Pepos with enlarged peduncle hanging along trail.
 318823. Col. No. 22123. 'Semilla guayeca'. Market in Aguascalientes, Aguascalientes. Seed small with wide, erose, yellow margin.
 318824. Col. No. 22255. 'Calabasa'. Market in Uruapan, Michoacan. Elevation 4,800 feet. Large indigenous pepo.
 318825. *CUCURBITA* cf. *MOSCHATA* Duchesne ex Poir. **Cushaw.**
 Col. No. 22182. LaGarrita, 10 miles east of Tamazula, Jalisco. Elevation 4,000 feet. Vine, climbing on shrubs and trees; dark green, white-spotted, oblong pepos.
 318826 to 318830. *CUCURBITA PEPO* L. **Pumpkin.**
 318826. Col. No. 22068. Tonachi, 20 miles north of Huachochoic, Chihuahua. Elevation 6,500 feet. Cultivated by Tarahumara Indians.
 318827. Col. No. 22073. Caborachi, 15 miles east of Huachochoic, Chihuahua. Along road, in pines on volcanics. Elevation 7,500 feet. Cultivated by Tarahumara Indians.
 318828. Col. No. 22101. 'Calabaza'. Market in Zacatecas, Zacatecas. Elevation 7,000 feet. Local type.
 318829. Col. No. 22122. 'Semilla de agua'. Market in Aguascalientes, Aguascalientes. Elevation 6,000 feet. Edible.
 318830. Col. No. 22256. 'Calabasa'. Market in Uruapan, Michoacan. Elevation 4,800 feet. Used as summer squash when young and tender. Resembles zucchini.
 318831. *CUCURBITA* sp.
 Col. No. 22302. La Garrita, 10 miles east of Tamazula, Jalisco. Large vine running in small tree. Pepo depressed globose.

318822 to 318832—Continued

318832. CUCURBITA sp.

Col. No. 22298. 'Chichicayota'. Nine miles north of Movas, Sonora. Vine growing on trees.

318833. CRAMBE CORDIFOLIA Stev. Cruciferae.

From Czechoslovakia. Seeds presented in 1958 by Botanic Garden, Komen-shenko University, Bratislava. Numbered Mar. 6, 1967.

318834. PINUS STROBUS f. PROSTRATA (Beiss.) Fern. & Weath. Pinaceae.

From England. Grafts presented by the Director, Royal Botanic Gardens, Kew, Richmond, Surrey. Received Mar. 7, 1967.

318835 to 318839. PYRUS COMMUNIS L. Rosaceae.**Common pear.**

From Poland. Scions presented by Research Institute of Pomology, Skier-niewice. Received Jan. 24, 1967. Numbered Mar. 6, 1967.

318835. 'Angko-li'.

318836. 'Beurre Zimniaya Michurina'.

318837. 'Gliva Ukrainskaya'.

318838. 'Menie'.

318839. 'Sorbus-Pyrus'.

318840. PHALARIS COERULESCENS Desf. Gramineae.

From the United States. Seeds collected by J. McWilliams, Plant Materials Technician, Soil Conservation Service, Big Flats, New York. Numbered Mar. 6, 1967.

Originally from Algeria.

318841 and 318842. ORYZA SATIVA L. Gramineae. Rice.

From India. Seeds presented by the Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Numbered Mar. 6, 1967.

318841. PTB-10. Mutant. Hyderabad.

318842. TR-1. Hyderabad.

318843 to 318861. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.

From New Zealand. Cuttings presented by Department of Scientific and Industrial Research, Otara, to J. C. Miller, Louisiana State University, Baton Rouge, La. Received Nov. 14, 1966. Numbered Mar. 6, 1967.

Original sources as indicated.

318843. N. Z. 27 (M 7). Hong Kong.

318844. N. Z. 112. (103 PH). 'Gohan'. Hapo, Ifugao, Philippines.

318845. N.Z. 151 (141 PH). 'Pattaki'. Bayyu, Bontoc, Philippines.

318846. N. Z. 196 (613). Dili, Timor.

318847. N. Z. 395 (716). Vila, New Hebrides.

318848. N. Z. 404 (726). 'Kumala Belep'. Chabwen, New Caledonia.

318849. N. Z. 551 (843). 'Rapa'. Ua-Huga, Marquesas Islands.

318850. N. Z. 562 (856). 'Poro tehia'. Va Pau, Marquesas Islands.

318851. N. Z. 563 (857). 'Hou'. Va-Pau, Marquesas Islands.

318843 to 318861—Continued

318852. N. Z. 606 (CH 1). Chicama V., Peru.
 318853. N. Z. 609 (CH 6). 'Pierma de Viuda'. Chicama V., Peru.
 318854. N. Z. 636 (HU 6). Huacho, Peru.
 318855. N. Z. 642 (LI 1). Lima, Peru.
 318856. N. Z. 643 (LI 3). Lima, Peru.
 318857. N. Z. 647 (LM 2). 'Chancleta'. Lima, Peru.
 318858. N. Z. 654 (07). Tingo Maria, Peru.
 318859. N. Z. 657 (J 2). Julian, Callejon de Huaylas, Peru.
 318860. N. Z. 672 (DM 2). Felidia, Colombia.
 318861. N. Z. 673. (FI 2). Felidia, Colombia.

318862. PRUNUS DOMESTICA L. Rosaceae. Common plum.

From the Union of Soviet Socialist Republics. Budwood presented by the All-Union Institute of Plant Industry, Leningrad. Received Feb. 20, 1967. Numbered Mar. 6, 1967.

'Michurin's Persicovaya'

318863. ERAGROSTIS PAPPOSA (Duf. ex R. & S.) Steud. Gramineae. Lovegrass.

From the United States. Seeds collected by S. H. Fuchs, Plant Materials Technician, Soil Conservation Service, Albuquerque, N. Mex. Numbered Mar. 6, 1967.

Originally from Tunisia.

318864. MELICA CILIATA L. Gramineae. Melic.

From the United States. Seeds collected December 1964, by J. McWilliams, Plant Materials Technician, Soil Conservation Service, Big Flats, N.Y. Numbered Mar. 6, 1967.

Originally from Algeria.

318865. VIBURNUM INCARNUM Graebn. Caprifoliaceae.

From Peru. Cuttings collected April 1966 by A. C. Macurdy, Cranbury, New Jersey. Numbered Mar. 6, 1967.

Along road from Huanuco to Panao, 19.5 km. from intersection of main road Huanuco to Tingo Maria. Elevation 2,300 to 2,500 meters. Plants scarce; shrub to 2 meters; flowers white.

318866 to 318870. PYRUS COMMUNIS L. Rosaceae. Common pear.

From Italy. Scions presented by Centro di Studio Miglioramento Piante da Frutto, Firenze. Received Feb. 8, 1967. Numbered Mar. 6, 1967.

318866. 'Andre Desportes'. 318869. 'Morettini 113'.
 318867. 'Leopardo Morettini'. 318870. 'Spadoncini'.
 318868. 'Morettini 64'.

318871 to 318884.

From Japan. Cuttings and scions presented by the Horticultural Research Station, Ministry of Agriculture and Forestry, Hiratsuka, Kanagawa. Received Mar. 7, 1967.

- 318871 to 318873. PYRUS CALLERYANA Decne. Rosaceae. Callery pear.
 318871. 'Inunashi'.

318871 to 318884—Continued**318871 to 318873—Continued**

318872. 'Mamenashi-6'.

318873. 'Mamenashi-7'.

318874. *PYRUS USSURAIENSIS* var. *HONDOENSIS* (Kik. & Nak.) Rehder
'Aonashi'.318875 to 318878. *VITIS THUNBERGII* Sieb. & Zucc. Vitaceae.318875. 'Ebizuru V1-6'. Male. 318878. 'Ebizuru V10-10'.
Female.

318876. 'Ebizuru V17-7'. Female

318877. 'Ebizuru V10-9'. Male.

318879. *VITIS* sp.

'Igawa-200'.

318880. *VITIS* sp.

'Igawa-205'.

318881. *VITIS* sp.

'Igawa-210'.

318882. *VITIS* sp.

'Igawa-250'.

318883. *VITIS* sp.

'Tachikawa No. 1'.

318884. *VITIS* sp.

'Tachikawa No. 3'.

318885. FRAGARIA (hybrid). Rosaceae.From the Netherlands. Plants presented by the Institute of Horticultural
Plant Breeding, Wageningen. Received Mar. 8, 1967.

'Elista'.

318886. ALLIUM CEPA L. Liliaceae.**Onion.**From the United States. Seeds grown in 1960 and presented by E. W. Davis,
Crops Research Division, Plant Industry Station, Beltsville, Md. Num-
bered Mar. 9, 1967.Selection from P.I. 249899 collected 1958, Lisbon, Portugal. Light pink
bulb; segregates for dark anther color (Marker gene).**318887 to 318896. TRIFOLIUM PRATENSE L. Leguminosae.****Red clover.**From Hungary. Seeds presented by the National Institute of Agrobotany,
Tapioszele. Land races based on localities where discovered, grown and
collected. Numbered Mar. 9, 1967.

318887. No. 7315/66. 'Bakonyi'. Drought resistant; extensively grown.

318888. No. 7317/67. 'Cigandi'. Very leafy; not drought resistant. Be-
longs to type group 'Bodrogkozi'.318889. No. 7313/66. 'Godorhazai'. Favorable ratio of leaves to stems.
One to two days later flowing than other early types.

318890. No. 7319/66. 'Kondorfai'. Similar to P.I. 318889.

318891. No. 7314/66. 'Lokuti'. Early type, prostrate; excellent propor-
tion of leaves to stems.

318887 to 318896—Continued

318892. No. 7311/67. 'Pocsaji'. Drought resistant. Belongs to type group 'Szatmari'.
318893. No. 7312/66. 'Szentgyogyvolgyi'. Similar to P.I. 318889.
318894. No. 7320/66. 'Taplanszentkereszti'. Improved variety bred from several land races belong to type group 'Orsegi'.
318895. No. 7318/66. 'Vasmegyei'. From Vas County, bordering on Burgenland of Austria. Similar to type group 'Orsegi'.
318896. No. 7316/66. 'Velemeri'. Similar to P.I. 318889.

318897 to 318916.

From Ethiopia. Seeds collected December 1966 by C. E. Smith, New Crops Research Branch, Plant Industry Station, Beltsville, Maryland. Numbered Mar. 9, 1967.

318897 and 318898. ELEUSINE CORACANA (L.) Gaertn. Gramineae. Ragi.

318897. Col. No. 4535. Market in Adiugn. Mixed with grasses, especially *Setaria*.

318898. Col. No. 4551. 'Dagusa'. Market in Addis Ababa.

318899 to 318903. ERAGROSTIS TEF (Zuccagni) Trotter Gramineae. Teff.

318899. Col. No. 4542. Market in Asmara. White teff mixed with red teff. Also mixed with *Panicum*, other grasses and *Amaranthus*.

318900. Col. No. 4543. Market in Asmara. Red teff. Mixed with *Panicum* and other grasses.

318901. Col. 4549. Market in Addis Ababa. White teff mixed with red. Also mixed with other grasses, especially *Panicum*, *Amaranthus* and weeds.

318902. Col. No. 4550. Market in Addis Ababa. Red teff. Mixed with other grasses.

318903. Col. No. 4553. 'Manjna'. Market in Addis Ababa. White teff. Mixed with other grasses, especially *Panicum* and *Setaria*; also *Amaranthus* and *Plantago*.

318904. PENNISETUM SPICATUM (L.) Willd. Gramineae. Pearl millet.

Col. No. 4541. Market in Asmara. Mixed with *Sorghum bicolor*.

318905 to 318916. SORGHUM BICOLOR (L.) Moench Gramineae. Kafircorn.

318905. Col. No. 4533. Market in Adiugri.

318906. Col. No. 4534. Market in Adiugri.

318907. Col. No. 4537. Market in Asmara. Mixed.

318908. Col. No. 4538. Market in Asmara.

318909. Col. No. 4539. Market in Asmara.

318910. Col. No. 4540. Market in Asmara.

318911. Col. No. 4546. 'Mashila'. Market in Addis Ababa.

Mixture.

318912. Col. No. 4547. 'Zangada'. Market in Addis Ababa.

318913. Col. No. 4548. 'Zangada'. Market in Addis Ababa. Mixture.

318914. Col. No. 4554. 'Marshila'. Market in Addis Ababa.

Yellow. Sorghum mixture along with *Lolium*, *Secale* and *Hordeum*.

318915. Col. No. 4556. 'Misinga'. Market in Denaba on road between Addis Ababa and Jimma.

318916. Col. No. 4562. 'Misinga'. Market in Kumbi. Mixture.

318917. VITIS sp. Vitaceae.

From Venezuela. Cuttings presented by George Gibbs, Barquisimeto. Received Mar. 10, 1967.

Wild type.

318918 to 318921.

From France. Rooted plants presented by G. Odier, Le Temple-Sur-Lot. Received Mar. 10, 1967.

318918 and 318919. PRUNUS AVIUM L. Rosaceae. Sweet cherry.

318918. 'Guigne du Lot'.

318919. 'Loustau Bigarreau'.

318920 and 318921. PRUNUS DOMESTICA L. Common plum.

318920. 'Coufignal'. Prune type.

318921. 'Reine Claude Larroche'.

318922 to 319147.

From Spain. Seeds presented by the Institute Forestal de Investigaciones y Experiencias, Madrid, via the United States Embassy, Rome, Italy. Public Law 480 Project E-25-FS-1. Numbered Mar. 13, 1967.

318922. AGROPYRON CRISTATUM (L.) Gaertn. Gramineae. Crested wheatgrass.

B-176. Fraga, Huesca. 1964.

318923. AGROPYRON INTERMEDIUM (Host) Beauv. Intermediate wheatgrass.

B-13. Zaragoza. 1962. (See also *A. glaucum*, P.I. 302828).

318924 to 318933. AGROSTIS CASTELLANA Boiss. & Reut. Gramineae. Bentgrass.

318924. A-76. Puebla de la Reina, Badajoz. June 1963.

318925. A-208. Aldeaquemada, Jaén. July 1963.

318926. B-113. Viver de la Sierra, Zaragoza. August 1963.

318927. B-129. Ciudad Real. 1963.

318928. C-57. Candeleda, Avila. July 1962.

318929. E-59. Almodovar del Campo, Ciudad Real. July 1962.

318930. F-123. Los Navalmorales, Toledo. July 1962. Mixed several other species. (See also *A. alba*, P.I. 287740).

318931. F-124. Torrecilla de la Jara, Toledo. July 1962. (See also *A. alba*, P.I. 287741).

318932. F-137. Salcedo, Zaragoza. April 1965. (See also *A. sp.*, P.I. 289644).

318933. F-252. Grimaldo, Cáceres. June 1963.

318934. AGROSTIS sp.

F-251. Sos del Rey Catolico, Zaragoza. 1963. (See also *A. alba*, P.I. 302902).

318935. ALOPECURUS GENICULATUS L. Gramineae. Water foxtail.

E-87. Fuencaliente, Ciudad Real. June 1962. (See also *A. pratensis*, P.I. 302832, and *A. myosuroides*, P.I. 289647).

318936. ALOPECURUS PRATENSIS L. Meadow foxtail.

E-68. Miquelturra, Ciudad Real. June 1963. (See also *A. arundinaceus*, P.I. 289646).

318922 to 319147—Continued

318937. ANTHYLLIS VULNERARIA L. Leguminosae. Kidneyvetch.
C-142. Campillo de Altobuey, Cuenca. June 1963.
318938. APHYLLANHES MONSPELIENSIS L. Liliaceae.
F-681. Campillo de Altobuey, Cuenca. 1964.
318939. ARGYROLOBIMUM LINNAEANUM Walp. Leguminosae.
F-501. (F-550). Campillo de Altobuey, Cuenca. 1964.
- 318940 to 318943. ARRHENATHERUM ELATIUS (L.) Presl. Gramineae.
Tall oatgrass.
318940. A-320. Sos del Rey Catolico, Zaragoza. 1963.
318941. B-58. León. 1962.
318942. D-55. Caravaca, Murcia. June 1962.
318943. E-17. Buenavista de la Valdavia, Palencia. September 1962.
- 318944 to 318946. ASTRAGALUS CYMBAECARPUS Brot. Leguminosae.
318944. A-82. Puebla de la Reina, Badajoz. 1963.
318945. G-82. Grimaldos, Cáceres. July 1965.
318946. M-142. Alburquerque, Badajoz. July 1964. (See also *A. bourgaeanus*, P.I. 289649).
318947. ASTRAGALUS HAMOSUS L.
A-310. Cuenca. 1964.
318948. ASTRAGALUS INCANUS L.
C-148. Campillo de Altobuey, Cuenca. June 1963. (See also *A. sp.*, P.I. 302858).
318949. ASTRAGALUS MACRORRHIZUS Cav.
A-340. Santiago de la Espada, Jaén. July 1963.
- 318950 to 318956. AVENA BROMOIDES Gouan Gramineae.
318950. A-168. Ruidera, Ciudad Real. 1963.
318951. B-57. Campillo de Altobuey, Cuenca. July 1962.
318952. B-178. Olmeda del Rey, Cuenca. 1964.
318953. D-95. Aina, Albacete. June 1965.
318954. F-110. Montalban, Teruel. 1965.
318955. G-24. (A-251). Urda, Toledo. July 1962.
318956. H-2. Campillo de Altobuey, Cuenca. July 1962.
318957. HELICTOTRICHON SULCATUM (Gay) Henr. Gramineae.
B-40. Medinasidonia, Cádiz. June 1962.
- 318958 to 318961. BRACHYPODIUM PHOENICOIDES (L.) Roem. & Schult. Gramineae.
318958. A-125. Sos del Rey Catolico, Zaragoza. 1962.
318959. A-218. Sos del Rey Catolico, Zaragoza. 1963.
318960. G-7. Torrecilla de la Jara, Toledo. July 1962. (See also *B. sylvaticum*, P.I. 287787).
318961. G-30. Los Yeneses, Toledo. July 1962.
318962. BRACHYPODIUM SYLVATICUM (Huds.) Beauv.
F-88. Candeleda, Ávila. July 1962.

318922 to 319147—Continued

318963. *CORONILLA MINIMA* L. Leguminosae.
A-294. Moratilla de los Meleros, Guadalajara. June 1964.
- 318964 and 318965. *CYNODON DACTYLON* (L.) Pers. Gramineae. **Bermudagrass.**
318964. C-237. Urda, Toledo. 1963.
318965. C-284. Garrovilla, Cáceres. June 1963.
- 318966 to 318979. *DACTYLIS GLOMERATA* L. Gramineae. **Orchardgrass.**
318966. A-47. Viver de la Sierra, Zaragoza. 1963.
318967. A-163. Cazorla, J  en. 1963. Contaminant with weed seeds.
318968. A-199. Ocana, Toledo. July 1964.
318969. A-227. Burgos. 1963.
318970. A-339. Villatoya, Albacete. 1963.
318971. B-49. (A-23). Torrecilla de la Jara, Toledo. June 1963.
318972. B-174. Olmeda del Rey, Cuenca. 1964.
318973. B-185. Campillo de Altobuey, Cuenca. June 1963.
318974. C-134. Barbate de Franco, C  diz. June 1963.
318975. C-143. Fuentelespino de Haro, Cuenca. June 1963.
318976. C-252. Navas del Moro, Cordoba. 1963.
318977. C-286. Cuenca. 1963.
318978. F-276. Cuenca. 1963.
318979. F-299. Fuentelespino de Haro, Cuenca. 1963.
- 318980 to 318984. *FESTUCA AMPLA* Hack. Gramineae. **Fescue.**
318980. A-136. Sos del Rey Catolico, Zaragoza. 1962. (See also *F. rubra*, P.I. 302895).
318981. B-52. Cea, Le  n. September 1962.
318982. C-67. Torreledones, Madrid. July 1962. (See also *F. ovina*, P.I. 289652).
318983. D-59. Fuencaliente, Ciudad Real. July 1962. (See also *F. rubra*, P.I. 289653).
318984. D-74. Almodovar del Campo, Ciudad Real. July 1962.
- 318985 to 318988. *FESTUCA ARUNDINACEA* Schreb. **Tall fescue.**
318985. B-96. Tijola, Almer  a. 1963.
318986. B-170. Ciudad Real. June 1963.
318987. D-72. (A-173). Ruidera, Ciudad Real. June 1962. (See also *F. elatior*, P.I. 287821 and *F. rubra*, P.I. 302894).
318988. F-378. Moratilla de los Meleros, Guadalajara. June 1964.
- 318989 and 318990. *FESTUCA OVINA* L. **Sheep fescue.**
318989. B-59. Calatayud, Zaragoza. July 1962.
318990. H-5. Burgos. 1962.
318991. *FESTUCA PRATENSIS* Huds. **Meadow fescue.**
T-20. El Bercial, Badajoz. 1962.
- 318992 and 318993. *FESTUCA RUBRA* L. **Red fescue.**
318992. A-123. Sos del Rey Catolico, Zaragoza. 1962.
318993. B-53. Cea, Le  n. September 1962.

318922 to 319147—Continued

318994. *HEDYSARUM CORONARIUM* L. Leguminosae. Sulla.
C-144. Algeciras, Cádiz. June 1963.
- 318995 and 318996. *HIPPOCREPIS COMMUTATA* Pau Leguminosae.
318995. C-77. (C-136). Fuentelespino de Haro, Cuenca. July 1962.
(See also *H. sp.*, P.I. 289657).
318996. G-67. Moratilla de los Meleros, Guadalajara. July 1962.
(See also *H. multisiliquosa*, P.I. 287838).
318997. *HIPPOCREPIS GLAUCA* Ten.
M-73. Ruidera, Ciudad Real. June 1962. (See also *H. comosa*, P.I. 287835).
318998. *HIPPOCREPIS MULTISILIQUOSA* L.
C-194. Armuna, Almería. July 1963.
- 318999 and 319000. *HIPPOCREPIS SALZMANNII* Boiss. & Reut.
318999. C-63. (A-215). Puerto de Santa Maria, Cádiz. June 1963.
(See also *H. multisiliquosa*, P.I. 287837).
319000. D-42. Rota, Cádiz. June 1963. (See also *H. multisiliquosa*, P.I. 302906).
319001. *HIPPOCREPIS SCABRA* DC.
C-196. Tijola, Almería. July 1963.
319002. *DESCHAMPSIA REUTERI* Pilg. Gramineae.
F-75. Los Barrios, Cádiz.
319003. *HORDEUM BULBOSUM* L. Gramineae. Bulbous barley.
D-60. Vejer de la Frontera, Cádiz. June 1963.
- 319004 to 319011. *KOELERIA CAUDATA* (Link) Steud. Gramineae.
319004. A-72. (A-71). Castrocalbon, León. July 1962. (See also *K. cristata*, P.I. 302912 for (A-71)).
319005. A-75. Castrocalbon, León. July 1962. (See also *K. sp.*, P.I. 302918).
319006. A-131. Cea, León. September 1962.
319007. D-45. Herradon Canada, Ávila. July 1962.
319008. E-16. Cea, León. September 1962.
319009. E-42. Castrocalbon, León. July 1962.
319010. E-96. Santiago de la Espada, Jáen. July 1963.
319011. F-191. Castrocalbon, Le n. July 1962.
- 319012 to 319016. *KOELERIA VALLESIANA* (Honck.) Bertol. in Roem. & Schult.
319012. A-271. Olmeda del Rey, Cuenca. June 1963.
319013. A-328. Villatoya, Albacete. 1963.
319014. C-223. Cuenca. 1963.
319015. E-92. Caravaca, Murcia. July 1962.
319016. F-319. Moratilla de los Meleros, Guadalajara. June 1964.
319017. *LOLIUM PERENNE* L. Gramineae. Perennial ryegrass.
F-65. Algeciras, Cádiz. July 1962. (See also *L. multiflorum*, P.I. 287847).

318922 to 319147—Continued

319018. *LOLIUM RIGIDUM* Gaud. **Wimmera ryegrass.**
A-161. Barbate, Cádiz. June 1963.
- 319019 and 319020. *LOTUS ARENARIUS* Brot. Leguminosae.
319019. C-22. Tarifa, Cádiz. June 1962. (See also *L. creticus*, P.I. 287858).
319020. C-165. Barbate de Franco, Cádiz. June 1963.
319021. *LOTUS* sp.
G-8. La Ercina, León. August 1963. (See also *L. corniculatus* P.I. 302922).
319022. *LOTUS* sp.
G-19. Litos, Zanora. June 1962.
319023. *LOTUS* sp.
G-29. Tabora, Zamora. June 1962.
319024. *LOTUS* sp.
F-92. Candeleda, Ávila. July 1962.
319025. *LOTUS* sp.
F-221. Campillo de Altobuey, Cuenca. June 1964.
319026. *MEDICAGO LUPULINA* L. Leguminosae. **Black medic.**
M-92. Molinicos, Albacete. July 1962.
- 319027 and 319028. *MEDICAGO ORBICULARIS* (L.) All. **Buttonclover medic.**
319027. A-49. (F-317). Puebla de la Reina, Badajoz. June 1963.
319028. F-321. (A-286). Campillo de Altobuey, Cuenca. July 1964.
- 319029 to 319038. *MEDICAGO POLYMORPHA* var. *VULGARIS* (Benth.) Shinnors **California burclover.**
319029. C-187. Campo Macias, Cáceres. June 1963.
319030. C-216. Jaén. July 1963.
319031. C-220. Moratilla de los Meleros, Guadalajara. July 1963.
319032. C-243. Urda, Toledo. July 1963.
319033. F-695. Manchita, Badajoz. June 1963.
319034. G-76. Villatoya, Albacete. July 1962. (See also *M. minima*, P.I. 287867).
319035. M-2. Madrid. July 1962.
319036. M-71. Miquelturra, Ciudad Real. July 1964. (See also *M. tribuloides*, P.I. 289663).
319037. M-150. Herrera del Duque, Badajoz.
319038. C-145. Los Navalmorales, Toledo. 1963.
- 319039 to 319042. *MEDICAGO RIGIDULA* Desr. In Lam. **Tifton medic.**
319039. C-260. Grimaldos, Cáceres. June 1963.
319040. F-678. Campillo de Altobuey, Cuenca. 1964.
319041. G-23. Urda, Toledo. July 1963. (See also *M. turbinata*, P.I. 287892).
319042. G-71. Riopar, Albacete. June 1965. (See also *M. gerardii*, P.I. 287866).
- 319043 and 319044. *MEDICAGO SATIVA* L. **Alfalfa.**

318922 to 319147—Continued

319043 to 319044—Continued

319043. A-216. Banuelos del Rudron, Burgos. September 1963.

319044. A-287. Burgos. September 1964.

319045. *MEDICAGO TRIBULOIDES* Desr.

C-176. Urda, Toledo. 1963.

319046 to 319050. *MEDICAGO TURBINATA* (L.) All.

319046. A-219. Puebla de la Reina, Badajoz. 1964.

319047. A-297. Ciudad Real. June 1963.

319048. B-93. Córdoba. 1963.

319049. D-87. Puebla de la Reina, Badajoz. July 1962.

(See also *M. polymorpha*, P.I. 287883).

319050. F-279. Ciudad Real. 1963.

319051. *MEDICAGO* sp.

C-195. Armuna, Almería. July 1963.

319052. *MELILOTUS SULCATA* Desf. Leguminosae. Sweetclover.

G-63. Moratilla de los Meleros, Guadalajara. (See also *M. sp.*, P.I. 289668).

319053 and 319054. *ONOBRYCHIS ERIOPHORA* (Pour.) Desv. Leguminosae.

319053. A-343. Urda, Toledo. 1964.

319054. A-23. (C-246). Urda, Toledo. June 1964.

319055 to 319057. *ONOBRYCHIS STENORHIZA* DC.

319055. G-6. Periago, Murcia. June 1962.

319056. G-55. Caravaca, Murcia. June 1962.

319057. M-183. Maria, Almería. June 1962.

319058 to 319062. *ONOBRYCHIS VICIFOLIA* Scop. Sainfoin.

319058. B-25. Villaescusa de Butron, Burgos. August 1962.

319059. B-175. Ayoluengo, Burgos. August 1963.

319060. B-179. Moradillo de Sedano, Burgos. August 1963.

319061. E-98. Tubilla del Agua, Burgos.

319062. T-14. Burgos. September 1962.

319063 and 319064. *ORNITHOPUS COMPRESSUS* L. Leguminosae.

319063. F-655. Villarta de los Montes, Badajoz. September 1963.

319064. F-670. Badajoz. 1964.

319065. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook. ex Aschers & Schweinf. Gramineae. Smilgrass.

F-296. Puebla de la Reina, Badajoz. 1964.

319066 to 319074. *PHALARIS AQUATICA* L. Gramineae. Large canarygrass.

319066. C-118. Córdoba. 1963.

319067. C-137. Cáceres. 1963.

319068. C-153. Herrera del Duque, Badajoz. July 1963.

319069. C-200. Sos del Rey Católico, Zaragoza. 1962.

319070. C-242. Almodobar del Campo, Ciudad Real. June 1963.

319071. C-279. Villatoya, Albacete. 1963.

318922 to 319147—Continued

319066 to 319074—Continued

319072. F-157. (C-200). Sos del Rey Catolico, Zaragoza. 1962.

319073. F-302. Olivenza, Badajoz. 1963.

319074. T-17. Burgos. October 1962; December 1962.

319075. PHALARIS COERULESCENS Desf.

D-84. Campanario, Badajoz. July 1962. (See also *P. sp.*, P.I. 289670).

319076 to 319078. PHLEUM NODOSUM L. Gramineae.

319076. F-24. Cea, León. September 1962.

319077. F-174. Cea, León. September 1962.

319078. M-216. Urda, Toledo. October 1965.

319079 and 319080. PHLEUM PRATENSE L.

Common timothy.

319079. F-488. Burgos. August 1964.

319080. T-2. Burgos. September 1962.

319081. POA BULBOSA L. Gramineae.

Bulbous bluegrass.

A-327. Aguas Viejas, Badajoz. 1964.

319082 and 319083. PSORALEA BITUMINOSA L. Leguminosae. Scurf-pea.

319082. C-95. Caravaca, Murcia. July 1962.

319083. E-30. Totana, Murcia. July 1962.

319084 and 319085. POTERIUM SANGUISORBA L. Rosaceae.

319084. B-16. Burgos. August 1962. (See also *S. minor*, P.I. 302957).

319085. D-38. Buenavista de Valdavia, Palencia. 1962.

319086 to 319093. SANGUISORBA MAGNOLII (Spach) Rothm. & Silva Rosacea.

319086. A-159. Urda, Toledo. 1964.

319087. A-262. Campillo de Altobuey, Cuenca. 1964.

319088. B-92. Torrecilla de la Jara, Toledo. June 1962.

319089. B-177. Campillo de Altobuey, Cuenca. 1963.

319090. C-203. Cazorla, Jáen. 1963.

319091. E-67. (B-155). Fuentelespino de Haro, Cuenca. July 1963. (See also *S. minor*, P.I. 287927).

319092. F-291. Campillo de Altobuey, Cuenca. June 1963. (See also *S. minor*, P.I. 302959).

319093. G-14. (F-282). Los Navalmorales, Toledo. July 1962. (See also *S. minor*, P.I. 287929).

319094 to 319102. SANGUISORBA MURICATA (Spach) Focke

319094. A-30. Moros, Zaragoza. July 1963. (See also *S. minor*, P.I. 287923).

319095. A-140. Sos del Rey Catolico, Zaragoza. 1962. (See also *S. minor*, P.I. 302955).

319096. A-326. Zaragoza. August 1963. (See also *S. minor*, P.I. 302956).

319097. C-212. Navas del Moro, Córdoba. 1963.

319098. D-20. Puebla de Don Rodrigo, Ciudad Real. July 1962. (See also *S. minor*, P.I. 287924).

318922 to 319147—Continued

319094 to 319102—Continued

319099. D-66. Puebla de Don Rodrigo, Ciudad Real. (See also *S. minor*, P.I. 287925).
 319100. F-297. Sos del Rey Catolico, Zaragoza. 1963.
 319101. F-389. Villatoya, Albacete. 1963.
 319102. F-676. (G-25). Jarque, Zaragoza. August 1963.
 319103 to 319115. SCORPIURUS SUBVILLOSA L. Leguminosae.

Scorpiontail.

319103. A-235. Los Molares, Córdoba. 1964.
 319104. A-325. Los Molares, Córdoba. 1964.
 319105. A-325. Priego, Córdoba. 1964.
 319106. A-335. Priego, Córdoba. 1964.
 319107. C-66. Herrera del Duque, Badajoz. June 1962. (See also *S. sulcata*, P.I. 287937).
 319108. C-197. Algeciras, Cádiz. June 1963.
 319109. C-261. Garrovillas, Cáceres. June 1963.
 319110. D-71. Vivero Central del D.F. de Sevilla, Sevilla. 1962.
 319111. F-60. Los Molares, Córdoba. October 1962.
 319112. F-204. Cazorla, Ján. July 1963.
 319113. F-293. Olivenza, Badajoz. 1963.
 319114. F-367. Badajoz. 1964.
 319115. F-541. Badajoz. 1964.

319116 to 319118. SCORPIURUS VERMICULATUS L.

Scorpiontail.

319116. C-288. Los Barrios, Cádiz. June 1963.
 319117. F-128. Madinasidonia, Cádiz. June 1962.
 319118. F-370. Campo Maciáx, Cáceres. 1963.

319119 to 319124. STIPA JUNCEA L. Gramineae.

319119. A-214. Fuentelespino de Haro, Cuenca. 1964.
 319120. A-254. Campillo de Altobuey, Cuenca. June 1963.
 319121. A-277. Campillo de Altobuey, Cuenca. 1964.
 319122. D-24. Teruel. 1963.
 319123. F-498. Renera, Guadalajara. June 1964.
 319124. F-696. Fuentelespino de Haro, Cuenca. June 1963.
 319125 to 319127. STIPA LAGASCAE Roem. & Schult. Gramineae.
 319125. A-276. Urda, Toledo. 1964.
 319126. C-245. La Atalaya, Ciudad Real. June 1963.
 319127. D-1. Ciudad Real. June 1962. (See also *S. juncea*, P.I. 287941).

319128 and 319129. TETRAGONOLOBUS SILIQUOSUS (L.) Roth Leguminosae.

319128. A-209. Moratilla de los Meleros, Guadalajara. June 1964.
 319129. C-281. Moratilla de los Meleros, Guadalajara. July 1963.
 319130. TRIFOLIUM CHERLERI L. Leguminosae.
 F-665. (M-146). Herrera del Duque, Badajoz. July 1963.
 319131. TRIFOLIUM FRAGIFERUM L. Strawberry clover.
 C-236. Ciudad Real. June 1963.

318922 to 319147—Continued

- 319132 and 319133. *TRIFOLIUM GLOMERATUM* L. Cluster clover.
 319132. C-121. Alburquerque, Badajoz. July 1963.
 319133. C-210. Santa Elena, Jáen. June 1963.
319134. *TRIFOLIUM HIRTUM* All. Rose clover.
 M-191. Navaconcejo, Cáceres. July 1962.
- 319135 and 319136. *TRIFOLIUM PRATENSE* L. Red clover.
 319135. C-247. Ciudad Real. June 1963.
 319136. D-18. Escalada, Burgos. August 1962.
- 319137 to 319139. *TRIFOLIUM REPENS* L. Whiteclover.
 319137. F-464. Cáceres. June 1963.
 319138. M-173. Herradon Canada, Ávila. July 1962.
 319139. M-210. Almodovar del Camp, Ciudad Real. July 1962.
- 319140 to 319146. *TRIFOLIUM SUBTERRANEUM* L. Subterranean clover.
 319140. C-206. Puebla de la Reina, Badajoz. June 1963.
 319141. C-277. Fuencaliente, Ciudad Real. June 1963.
 319142. D-43. (D-22). Almodovar del Campo, Ciudad Real. July 1963.
 319143. F-210. Nucleo de la Haba, Badajoz. June 1964.
 319144. F-252. Alange, Badajoz. June 1964.
 319145. F-324. Ciudad Real. 1964.
 319146. F-365. Puebla de la Reina, Badajoz. June 1964.
319147. *TRIFOLIUM* sp.
 C-138. Caceres. June 1963.
- 319148 and 319149. *VITIS VINIFERA* L. Vitaceae. European grape.
 From France. Cuttings presented by the Centre de Recherches Agronomiques du Sud-Ouest, Pont-de-la-Maye (Gironde). Received Mar. 16, 1967.
319148. 'Melon'. Clone 7948.
 319149. 'Melon'. Clone 7969.
319150. *ARMORACIA LAPATHIFOLIA* Gilib. Cruciferae. Horseradish.
 From Switzerland. Roots presented by the Station Federale d'Essais Agricoles, Groupe Arboriculture et Horticulture, Pont de la Morge, Suisse. Received Mar. 16, 1967.
319151. *PUNICA GRANATUM* L. Punicaceae. Pomegranate.
 From Afghanistan. Seeds presented by the Agency for International Development, Kabul. Received Mar. 16, 1967.
 'Tashkargar'. Light red skin cover with dark red fruit. Juice very sweet; dark red in color.
- 319152 to 319161. *PRUNUS PERSICA* (L.) Batsch Rosaceae. Peach.
 From Canada. Seedling trees presented by the Harrow Research Station, Canada Department of Agriculture, Harrow, Ontario. Received Mar. 17, 1967.

319152 to 319161—Continued

319152. Harrow 614. ('J. H. Hale' × 'Vedette') o.p. × 'Earlired'. Medium hardy, upright spreading tree. Fruit matures 8 weeks before 'Elberta,' 2¼ to 2½ inches; semicling becoming fully freestone when ripe. Flesh very firm, yellow, good quality. Highly colored with 80 percent blushed red overcolor. Freedom from split pits.
319153. Harrow 612. ('J. H. Hale' × 'Vedette') o.p. × 'Earlired'. Medium hardy, upright spreading tree. Fruit matures 8 weeks before 'Elberta,' 2¼ inches when reasonably thinned; cling to semicling. Flesh medium firm, yellow, good quality. Highly colored with 70 percent blushed red overcolor. Fifteen percent split pits.
319154. Harrow 616. ('J. H. Hale' × 'Vedette') o.p. × 'Earlired'. Medium hardy. Fruit matures 7 weeks before 'Elberta,' 2¼ to 2½ inches; semicling becoming freestone when fully ripe. Flesh extremely firm, good quality, yellow, free of red, nearly free of pubescence. Ninety percent attractive red overcolor. Few split pits.
319155. Harrow 619. ('Redskin' × 'Sunhaven'). Medium hardy. Fruit matures 4 weeks before 'Elberta,' 2¾ to 3 inches; freestone. Flesh firm, good quality and fine texture, yellow, free of red pigment. Fifty percent red blush over yellow ground.
319156. Harrow 6110 ('Redskin' × 'Sunhaven'). Medium hardy, upright tree. Fruit matures 3 weeks before 'Elberta,' 2½ inches; medium quality freestone. Flesh firm, yellow, relatively free of red pigmentation at pit. Seventy percent blushed red yellow ground. Picks quite readily.
319157. Harrow 6111. ('J. H. Hale' × 'Sunhaven'). Productive, upright spreading tree. Fruit matures three weeks before 'Elberta,' 2¾ to 3 inches; good quality freestone. Flesh firm, yellow with slight red at pit. Sixty percent bright red over attractive yellow ground. Picks cleanly.
319158. Harrow 6112. ('Redskin' × 'Sunhaven'). Excellent upright spreading tree. Fruit matures 2 weeks before 'Elberta,' 2½ to 2¾ inches; good quality freestone. Flesh extremely firm, yellow with slight red at pit. Seventy-five percent blushed red overcolor. Promising shipping peach.
319159. Harrow 6113. ('Redskin' × 'Sunhaven'). Productive upright spreading tree. Fruit matures 2 weeks before 'Elberta,' 2¾ to 3½ inches; good quality freestone. Flesh firm, yellow with slight red at pit. Seventy percent blushed red overcolor.
319160. Harrow 6114. ('Redskin' × 'Sunhaven'). Productive upright spreading tree. Fruit matures 2 weeks before 'Elberta,' 2¾ inches; quality outstanding, freestone. Flesh firm, yellow with slight red at pit. Sixty-five percent blushed red overcolor.
319161. Harrow 6115. ('Redskin' × 'Sunhaven'). Fruit matures one week before 'Elberta,' 2¾ to 3 inches; freestone, exceptional quality and performance. Flesh very firm, yellow with slight red at pit. Highly colored for its season with 80 percent attractive red overcolor.

319162 to 319164. CAMELLIA JAPONICA L. Theaceae.

Common camellia.

From Japan. Plant material collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Maryland.

For U.S.D.A.—Longwood Cooperative Program. Numbered Mar. 20, 1967. Representatives of Higo camellia rare.

319162. Col. No. K-511. 'Yamato Nishiki'. In garden of Nakahara Chyorakuen, Kurume City. Evergreen shrub.

319162 to 319164—Continued

319163. Col. No. K-515. 'Showano Hikari'. In garden of Nakahara Chyorakuen, Kurume City. Evergreen shrub.

319164. Col. No. K-520. 'Hino Maru'. Kurume Branch Horticultural Experiment Station, Kurume.

319165 to 319167.

From Sudan. Seeds presented by the Cotton Research Corporation, Khartoum North, Khartoum. Numbered Mar. 22, 1967.

319165. *GOSSYPIOIDES BREVILANATUM* (Hochr.) J. B. Hutchinson Malvaceae.

C.B. 3821.

319166. *NOTOXYLINON FLAVIFLORUM* Lewton Malvaceae.

C.B. 3822.

319167. *THESPESIA DANIS* Oliver Malvaceae.

C.B. 3820.

319168 to 319171.

From the Union of Soviet Socialist Republics. Seeds presented by the Hortus Socziensis Dendrarium, Soczi, Crimea. Numbered Mar. 22, 1967.

319168. *ILEX AQUIFOLIUM* L. Aquifoliaceae. English holly.

319169. *ILEX COLCHICA* Pojark.

319170. *ILEX CORNUTA* Lindl. & Paxt. Chinese holly.

319171. *ILEX LATIFOLIA* Thunb. Lusterleaf holly.

319172 and 319173.

From the Union of Soviet Socialist Republics. Seeds presented by the Botanical Garden, Estonian Academy of Sciences, Tallin, through the All-Union Institute of Plant Industry, Leningrad. Numbered Mar. 22, 1967.

319172. *BETULA NANA* L. Betulaceae.

319173. *PICEA ABIES* Karst. Pinaceae. Norway spruce.

319174 to 319178. ARACHIS HYPOGAEA L. Leguminosae.

From Israel. Seeds presented by E. Goldin, Volcani Institute of Agriculture Research, Rehovot. Received Mar. 22, 1967.

319174. X-30 L-4. 319177. X-30 L-25.

319175. X-30 L-7. 319178. X-30 L-33.

319176. X-30 L-15.

319179. PLATANUS sp. Platanaceae.

From Turkey. Seeds presented by E. C. Blodgett, Irrigation Experiment Station, Prosser, Washington. Received Mar. 23, 1967.

Collected from a large tree near the home of Attaturk on the outskirts of the city Yalova on the sea of Marmara. The tree believed to be quite resistant to sycamore anthracnose.

319180 to 319183. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From the Netherlands. Tubers presented by the Veredelingsbedrijf Cebeco, Hoofddorp. Received Mar. 28, 1967.

319180. 6015-28. 319182. 58129-49.

319181. 6015-29. 319183. 60238-25.

319184 to 319191. ZEA MAYS L. Gramineae. Corn.

From Colombia. Seeds presented by the Rockefeller Foundation, Bogota. Received Mar. 28, 1967.

- | | |
|------------------------|-------------------------------|
| 319184. Diacol V. 551. | 319188. Ecu. 640-8#. |
| 319185. Ecu. 434-0. | 319189. Mezcla de autos. |
| 319186. Ecu. 434-9# | 319190. Mezcla de sibes. |
| 319187. Ecu. 624-8#. | 319191. Roc. V.7-486C-3#b-6#. |

319192. ORYZA SATIVA L. Gramineae. Rice.

From Japan. Seeds presented by the National Institute of Agricultural Sciences, Hiratsuka, Kanagawa. Received Mar. 24, 1967.

'Shiokari'. No. 010004.

319193 and 319194. CASTANEA MOLLISSIMA Blume Fagaceae.

From Korea. Cuttings presented by the Institute of Forest Genetics. Suwon, Kyonggido. Received Mar. 28, 1967.

319193. 'Kung-Ju'.
319194. 'Pung Yang'.

319195 and 319196.

From Kenya. Seeds presented by J. G. Boonman, National Agricultural Research Station, Kitale. Numbered Mar. 31, 1967.

319195. ECHINOCHLOA HAPLOCLADA Stapf Gramineae.
K.6416. From Marasabet.
319196. PENNISETUM SQUAMULATUM Fres. Gramineae.
K.5455. From Sigor.

319197. RHODODENDRON YAKUSIMANUM Nakai Ericaceae.

From Japan. Seeds presented by Kaname Kato, 3-1377 Shibamata, Katsushika-ku, Tokyo. Numbered Mar. 31, 1967.

319198. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From the Netherlands. Tubers presented by the Institute for Plant Breeding, Wageningen. Numbered Mar. 31, 1967.

'Mirka'. Reported to be virus free.

319199 to 319205. VITIS VINIFERA L. Vitaceae. European grape.

From the United States. Grapevines growing at the Agricultural Experiment Station, University of California, Davis. Numbered Mar. 21, 1967.

Originally from Mendoza, Argentina. October 1964.

319199. 'Criolla Sanjuania'.
319200. 'Sereza'.
319201. 'Tempranilla'.

Originally from Largo do Corpo Santo, Lisbon, Portugal. June 1963.

319202. 'Bolonio'.
319203. 'Olvarminto'.
319204. 'Sercial'.

Originally from the Soviet Union. Collected April 1963.

319205. 'Malta Seedless'. Reported to be only variety grown on the Island of Malta.

319206. BROMUS INERMIS Leyss. Gramineae.**Smooth bromegrass.**

From Finland. Seeds presented by the Agricultural Research Institute, Jokioinen. Numbered Mar. 21, 1967.

Jo. 266.

319207 to 319211.

From Costa Rica. Seeds collected by Claude Hope, Linda Vista Ltda., Cartago. Numbered Mar. 21, 1967.

319207. TAGETES FILIFOLIA Lag. Compositae.

Abundant around Cartago. Low, much-branched annual.

319208. TAGETES sp.

Tobosi, Cartago Province. Plant about 50 cm. tall, well branched. Flowers small, ray florets about 5 mm. long.

319209. TAGETES sp.

Near Agua Caliente, Cartago Province. Annual about 60 mm. tall.

319210. TAGETES sp.

Near Tobosi, Cartago Province.

319211. TAGETES sp.

Possible hybrid with cultivated types, or degenerate form of cultivar.

319212 to 319220.

From the United Arab Republic. Seeds collected in 1966 by J. C. Miller, Department of Horticulture, Louisiana State University, Baton Rouge, Louisiana. Numbered Mar. 21, 1967.

319212. CITRULLUS LANATUS (Thunb.) Mansf. Cucurbitaceae.**Watermelon.**

'Giza 1'. Local variety.

319213 and 319214. CUCUMIS MELO L. Cucurbitaceae.**Muskmelon.****319213. 'Kahera 3'.****319214. 'Kahera 6'.****319215. CUCUMIS MELO** var. **FLEXUOSUS** (L.) Naud.

Productive spring, summer and fall.

319216. CUCUMIS SATIVUS L.**Cucumber.**

'Balady'.

319217. CUCUMIS sp.

Snake cucumber.

319218. CUCUMIS sp.

Sweet melon.

319219. CUCUMIS sp.**319220. SPINACIA OLERACEA** L. Chenopodiaceae.**Spinach.****319221 to 319234.**

From Sweden. Seeds presented by Universitetes Botaniska Trädgård, Uppsala 1. Origin indicated where known. Numbered Mar. 21, 1967.

319221. COTONEASTER CINNABARINA Juzepczuk Rosaceae.

From Kola Peninsula, Murmansk Oblast, U.S.S.R. (Soviet Union).

319221 to 319234—Continued

319222. *DORONICUM PLANTAGINEUM* L. Compositae.

France.

319223. *LEONTOPODIUM SOULIEI* Beauverd Compositae.

From Dongbo-la, Sikang Province, Taofu District, China. Elevation 4,200 meters.

319224. *LEONTOPODIUM STOECHAS* Hand.-Mazz.

From Sikang Province, Taofu District, China. Elevation 300 meters.

319225. *SEDUM ALBUM* L. Crassulaceae.

White stonecrop.

Oland Province, Sweden.

319226. *SEDUM ATRATUM* L.

319227. *SEDUM HISPANICUM* L.

319228. *SEDUM POPULIFOLIUM* Pall.

Poplar stonecrop.

319229. *SEDUM ROSEUM* (L.) Scop.

Roseroot stonecrop.

Torne Lappmark Province, Sweden.

319230. *SEDUM RUBENS* L.

319231. *SEDUM STENOPETALUM* Pursh

319232. *SEDUM TELEPHIUM* ssp. *FABARIA* (Koch) Kirschl.

319233. *SEDUM TELEPHIUM* ssp. *TELEPHIUM*

From Denmark. Subspontaneous.

319234. *SEDUM TELEPHIUM* L.

Finland.

319235 to 319239. *CITRULLUS LANATUS* (Thunb.) Mansf. Cucurbitaceae. Watermelon.

From Japan. Seeds presented by Muneo Iizuka, Horticultural Research Station, Ministry of Agriculture and Forestry, Hiratsuka, Kanagawa. Numbered Mar. 22, 1967.

319235. No. 1. Fruit nonstriped, flesh yellow, average weight 6 to 8 kilograms.

319236. No. 2. Fruit striped, flesh yellow, average weight 6 to 8 kilograms.

319237. No. 3. Fruit nonstriped, flesh deep yellow, average weight 5 to 6 kilograms.

319238. No. 4. Fruit striped, flesh orange-yellow, average weight 2 to 4 kilograms.

319239. No. 5. Fruit nonstriped, flesh orange-yellow, average weight 2 to 4 kilograms.

319240 to 319271.

From Korea. Plant material collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Maryland. For U.S.D.A.-Longwood Cooperative Program. Numbered Mar. 27, 1967.

319240. *ARISAEMA AMURENSE* Maxim. Araceae.

Col. No. K-143. In dense shade near trail up Mt. Chiri, Cholla Nam-do. Elevation 1,410 meters. Cormous perennial. Leaves up to 5 lobes. Not seen in flower. Corms.

319240 to 319271—Continued

319241. *ARISAEMA AMURENSE* var. *SERRATUM* Nakai

Col. No. K-16. Mt. Halla, Cheju Island; growing in dense woods. Perennial with thickened base. Not seen in flower. Corms.

319242 and 319243. *ARISAEMA HETEROPHYLLUM* Bl.

319242. Col. No. K-95. On grounds of Temple, Mt. Odai, Kangwon-do; growing in *Abies* forest. Elevation 690 meters. Cormous perennial to 1 meter; stem mottled white and purple. Corms.

319243. Col. No. K-200. Moist sandy soil in deep shade of mixed deciduous forest; Kwang Nung, Kyonggi-do. Cormous herbaceous perennial to 1 meter; leaves divided into many segments. Corm.

319244. *ARISAEMA JAPONICUM* Bl.

Col. No. K-119. In moist, rocky, shaded area along trail on Mt. Baek Yang, Cholla Nam-do. Elevation 390 meters. Cormous perennial to one-half meter. Not seen in flower. Corm.

319245 and 319246. *ARISAEMA PENINSULAE* Nakai

319245. Col. No. K-166. At head of Piakok Valley, Mt. Chiri, Cholla Nam-do. Elevation 1,140 meters. Cormous perennial to one-half meter; stem mottled. Corm.

319246. Col. No. K-203. Moist sandy soil; under mixed deciduous forest; Kwang Nung, Kyonggi-do. Cormous perennial to 1 meter; leaves with elliptic leaflets; stem streaked with purple. Corms.

319247. *ARISAEMA RINGENS* (Thunb.) Schott

Col. No. K-24. Twenty km. from Sogwipo on road to Cheju, Cheju Island in dark moist woods. Elevation 600 meters. Herbaceous perennial with thickened stem base; leaves with 3 broad, cordate lobes. Not seen in flower. Corms.

319248 and 319249. *ARISAEMA ROBUSTUM* (Engl.) Nakai

319248. Col. No. K-206. Moist sandy soil along small streambed in mixed deciduous forest; Kwang Nung, Kyonggi-do. Robust, cormous perennial; leaves almost in a whorl; elliptic; stems green to purple. Corms.

319249. Col. No. K-226. Mt. Sokni, Chunchong Pukto; in deep, moist shade. Elevation 450 meters. Cormous perennial; leaves with serrate margins. Corms.

319250. *ARISAEMA* sp.

Col. No. K-257. In moist woods, dense shade along stream on Mt. Tok-yu, Ko Chun. Cormous perennial; leaves in three's. Corms.

319251. *CALANTHE DISCOLOR* Lindl. Orchidaceae.

Col. No. K-22. In moist, dark woods 20 km. from Sogwipo on road to Cheju, Cheju Island. Elevation 600 meters. Terrestrial orchid with broad basal leaves and purple flowers. Plants.

319252. *CAMPTOSORUS SIBIRICUS* Rupr. Aspleniaceae.

Col. No. K-106. On road from Taek Wal Yong to Jin Boo, Kangwon-do; growing on rock. Elevation 690 meters. Very small fern; fronds lanceolate; acuminate rooting at tip. Plants.

319253. *CONIOGRAMME JAPONICA* (Thunb.) Diels Polypodiaceae.

Col. No. K-23. About 20 km. from Sogwipo on road to Cheju, Cheju Island in dark, moist woods. Elevation 600 meters. Fern; fronds single to 0.9 meter, pinnately compound. Plants.

319240 to 319271—Continued

319254. *CYPRIPEDIUM MACRANTHUM* Sw. Orchidaceae.

Col. No. K-144. Growing in semishade along trail on Mt. Chiri, Cholla Nam-do. Fleshy rooted orchid. Leaves elliptic; veins prominent. Not seen in flower. Plants.

319255. *DRYOPTERIS VARIA* (L.) O. Kuntze Polypodiaceae.

Col. No. K-239. In moist shady area on Mt. Sokni, Chunchong Pukto. Elevation 540 meters. Fern to one-half meter; fronds mostly bipinnate. Plants.

319256. *DRYOPTERIS* sp.

Col. No. K-145. In dense, moist shade along trail on Mt. Chiri, Cholla Nam-do. Elevation 1,410 meters. Fern to 1 meter, rhizome upright; sori on both sides of midrib; indusium reinform, attached laterally. Plants.

319257. *LEMMAPHYLLUM MICROPHYLLUM* Presl Polypodiaceae.

Col. No. K-466. Growing on *Torreya nucifera*. Plantation 6 km. inland and 25 km. east of Cheju City. Rhizomatous epiphytic fern; fronds dimorphic. Plants.

319258. *LIPARIS* sp. Orchidaceae.

Col. No. K-403. In dense shade on leaf mold, near road west from Kang Nung. Herbaceous perennial. Plants.

319259 and 319260. *SEDUM LEVEILLEANUM* Hamet Crassulaceae.

319259. Col. No. K-15. In open, wind-swept area near top of Mt. Halla, Cheju Island. Very low, fleshy narrow leaved perennial; flowers probably white—not fully open. Plants.

319260. Col. No. K-165. Growing on rocks, above No Go Dan, Mt. Chiri, Cholla Nam-do. Rosette forming succulent; flowers white to very light pink. Plants.

319261. *COELOGLOSSUM VIRIDE* var. *BRACTEATUM* (Willd.) Richt. Orchidaceae.

Col. No. K-107. Growing on steep slope of road from Taek Wal Yong to Jin Boo, Kangwon-do. Elevation 690 meters. Small orchid. Not seen in flower. Plant.

319262. *PINELIA TERNATA* (Thunb.) Breit. Araceae.

Col. No. K-180. In landscape planting in front of Administration Building, College Campus, Suwon. Cormous perennial to one-half meter high; leaves three lobed. Corms.

319263. *PLEOPELTIS ussuriensis* Regel & Macke.

Col. No. K-68. About 850 meters on west side of Park Tal Mountain at east end of Mt. Jorak Range, Kangwon-do. Low fern spreading by rhizomes; growing on *Quercus mongolica*; sori in 2 lines; no indusium. Plants.

319264. *POLYSTICHUM STANDISHI* (Moore) C. Chr. Aspidiaceae.

Col. No. K-40. In densely shaded moist woods along trail on east coast of Ullung-do. Elevation 270 meters. Fern one-half to 1 meter high; fronds three-pinnatifid; no fertile fronds found; creeping lateral rhizome. Rhizomes.

319265. *PYRROSIA HASTATA* (Thunb.) Ching Polypodiaceae.

Col. No. K-113. On exposed cliff, Mt. Baek Yang, Cholla Nam-do. Leather-leaved fern; thick indumentum on underside of entire frond. Plant.

319266. *SEDUM POLYTRICHOIDES* Hemsl. Crassulaceae.

Col. No. K-97. Growing in moss on rocky ledges along trail on Mt. Odai, Kangwon-do. Very low herbaceous perennial. Flowers small, yellow. Plants.

319240 to 319271—Continued

319267. *SEDUM ROTUNDIFOLIUM* Lam.

Col. No. K-127. Growing on rocky outcrops in full sun on crest of Chung Ke Mountain, Suwon. Elevation 300 meters. Fleshy leaved perennial; flowers terminal; not open at time of collection. Plants.

319268. *SEDUM SPECTABILE* Bor.

Col. No. K-188. Along rocky wall of streambank, Kwang Kyo, Kyunggi-do. Fleshy leaved perennial to about one-third meter; flowers interterminal, flat-topped corymb, deep rose pink. Plants and cuttings.

319269. *SEDUM VIVIPARUM* Maxim.

Col. No. K-91. Growing on rocky ledges in open areas along trail on Mt. Odai, Kangwon-do. Herbaceous perennial with woody rootstalk up to 5 or 6 dm. tall; leaves lance-elliptic; crenate, in groups of 3. Plants.

319270 and 319271. *VIOLA VARIEGATA* Fisch. ex Link Violaceae. Violet.

319270. Col. No. K-114. Growing in rocky soil in shade along trail on Mt. Baek Yang, Cholla Nam-do. Elevation 360 meters. Herbaceous perennial; leaves cordate, blunt, serrate; veins white. Plants.

319271. Col. No. K-154. Sin Won on Mt. Chiri, Cholla Nam-do. Elevation 700 meters. Herbaceous, rosette-forming perennial; leaves cordate; veins white. Not seen in flower. Stoloniferous. Plants.

319272 to 319331.

From Korea. Plant material collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Maryland. For U.S.D.A.-Longwood Cooperative Program. Numbered Mar. 27, 1967.

319272 and 319273. *ABELIOPHYLLUM DISTICHUM* Nakai Oleaceae.

319272. Col. No. K-215. Garden at residence of Professor Tchang Bok Lee, Suwon. Deciduous shrub; leaves opposite; one color form. Not seen in flower. Cuttings.

319273. Col. No. K-216. Garden at residence of Professor Tchang Bok Lee, Suwon. Deciduous shrub; leaves opposite; different color than P.I. 319272. Cuttings.

319274. *ATRACYLIS LYRATA* (Sieb. & Zucc.) Hand.-Mazz. Compositae.

Col. No. K-244. In sandy soil on ridge line, Mt. Sokni, Chunchong Pukto. Elevation 600 meters. Herbaceous perennial to 1 meter high. Leaves alternate, ovate-elliptic. Flowers white. Plants.

319275 to 319280. *BUXUS MICROPHYLLA* var. *KOREANA* Nakai ex Rehder Buxaceae.

319275. Col. No. K-78. Taek Wal Yong Alpine Experiment Station, Kangwan-do. Elevation 850 meters. Dwarf evergreen shrub; leaves small. Cuttings.

319276. Col. No. K-79. Taek Wal Yong Alpine Experiment Station, Kangwan-do. Dwarf evergreen shrub; leaves small. Branching is horizontal. Cuttings.

319277. Col. No. K-80. Taek Wal Yong Alpine Experiment Station, Kangwon-do. Dwarf evergreen shrub. Typical form of plant. Cuttings.

319278. Col. No. K-178. On college campus, Suwon. Dwarf evergreen shrub; about 0.5 meter high. Leaves narrow. Plant very compact, dense. Cuttings.

319279. Col. No. K-179. On college campus, Suwon. Evergreen shrub to 0.75 meter high. Leaves very dark green. Cuttings.

319272 to 319331—Continued

319275 to 319280—Continued

319280. Col. No. K-289. Cho Kye Sa Temple, Seoul. Very small, narrow-leaved form.

319281 to 319283. *CAMELLIA JAPONICA* L.

319281. Col. No. K-17. On road from Sogwipo to Cheju, Cheju Island, growing at edge of woods. Elevation 480 meters. Evergreen shrub 12 to 15 feet high. Not seen in flower. Cuttings.

319282. Col. No. K-18. On road from Sogwipo to Cheju, Cheju Island, growing at edge of woods. Elevation 480 meters. Evergreen shrub to 10 feet high; fastigiata. Not in flower. Cuttings.

319283. Col. No. K-20. On road from Sogwipo to Cheju, Cheju Island, growing at edge of woods. Elevation 480 meters. Evergreen shrub to 8 feet high; leaves light yellow-green. Not seen in flower. Cuttings.

319284 and 319285. *CAMELLIA SASANQUA* Thunb. *Sasanqua camellia*.

319284. Col. No. K-517. 'Ginrei'. Kurume City, Japan. In Garden of Nakahara Chyorakuen. Called Higo Sasanqua by nurseryman. Cuttings.

319285. Col. No. K-518. 'Onishiki'. Kurume City, Japan. In garden of Nakahara Chyorakuen. Called Higo Sasanqua by nurseryman. Cuttings.

319286. *CARYOPTERIS INCANA* (Thunb.) Miquel Verbenaceae. **Common bluebeard.**

Col. No. K-462. On sea coast 20 km. east of Cheju City. Subfruticose plant. Flowers blue. Cuttings.

319287. *CIMICIFUGA DAHURICA* (Turcz.) Huth Ranunculaceae.

Col. No. K-228. On Mt. Sokni, Chunchong Pukto. In shady, moist ravine. Elevation 600 meters. Herbaceous perennial to 2 meters high. leaves divided. Flowers white. Plants.

319288. *DEUTZIA GLABRATA* Kom. Saxifragaceae.

Col. No. K-237. Along trail up Mt. Sokni, Chunchong Pukto. Elevation 480 meters. Deciduous shrub to 2 meters high. Not seen in flower. Cuttings.

319289. *ELAEAGNUS UMBELLATA* Thunb. Elaeagnaceae. **Autumn elaeagnus.**

Col. No. K-261. Along trail on Mt. Tok-Yu, Ko Chun. In dry area. Deciduous shrub to 3 meters high. Shoot tips with leaves silvery on both surfaces. Cuttings.

319290. *EUONYMUS SIEBOLDIANA* Blume Celastraceae.

Col. No. K-197. In pine forest near Forest Experiment Station, Kwang Nung, Kyonggi-do. Deciduous shrub to 7 meters high. Leaves lanceolate, about 20 cm. long. Cuttings.

319291. *FONTANESIA PHILLYRAEOIDES* Labill. Oleaceae. **Syrian-privet.**

Col. No. K-195. In small arboretum, Forest Experiment Station, Kwang Nung, Kyonggi-do. Deciduous shrub to 2.5 meters high. Branchlets thin and graceful. Fruit winged. Cuttings.

319292. *GENTIANA SCABRA* var. *BUERGERI* (Miq.) Maxim. Gentianaceae.

Col. No. K-82. On grounds of Taek Wal Yong Alpine Experiment Station, Kangwon-do. Elevation 850 meters. Fleshy-rooted perennial with short rhizome, 1 to 1½ meters high. Leaves lance-ovate. Not seen in flower. Plants.

319272 to 319331—Continued

319293. *HEMEROCALLIS* sp. Liliaceae.

Col. No. K-473. Suwon. At edge of dry pine woods. Perennial; fleshy rooted, strap leaved. Plant.

319294 and 319295. *HOSTA LONGIPES* (Fr. & Sav.) Matsum. Liliaceae.

319294. Col. No. K-138. In shade and sun along trail on Mt. Chiri, Cholla Nam-do. Elevation 1,350 meters. Herbaceous perennial with fleshy roots. Leaves cordate to narrower in some specimens. Plants.

319295. Col. No. K-238. On Mt. Sokni, Chunchong Pukto. Growing in shade on mossy rocks. Elevation 540 meters. Herbaceous perennial to one-half meter high. Not seen in flower. Plants.

319296. *JUNIPERUS CHINENSIS* f. *AUREA* (Young) Beissn. Pinaceae.

Col. No. K-212. Grounds of Forest Experiment Station, An Yang, Kyonggi-do Province. Needleleaf evergreen to 4 meters high. Tips of many branches yellow-white. Cuttings.

319297 and 319298. *LILIUM AMABILE* Palibin Liliaceae.

319297. Col. No. K-159. At No Go Dan, Mt. Chiri, Cholla Nam-do. In open, shrubby growth. Elevation 390 meters. Bulbous perennial to 1 meter high. Leaves linear; 1 cm. across. Bulb.

319298. Col. No. K-242. Mt. Sokni, Chunchong Pukto. In sandy soil. Elevation 600 meters. Bulbous perennial to 6 dm. high. Leaves pubescent, scattered; bulbs elongate. Bulbs.

319299 and 319300. *LILIUM DISTICHUM* Nakai

319299. Col. No. K-329. In shady moist areas along trail up western slope of Mt. Sorak. Between Ose Am and Pong Jeung Am. Elevation 810 meters. Bulbous perennial to 1 meter high. Leaves whorled; stems rooting; scales jointed. Bulb.

319300. Col. No. K-366. Near top of Mt. Sorak. Growing in open on eastern slope. Elevation 1,530 meters. Bulbous perennial. Leaves whorled; stems rooting. Bulb scales jointed. Bulb.

319301 to 319304. *LILIUM HANSONII* Leichtl.

Hanson lily.

319301. Col. No. K-33. Bong Nai Waterfall, Ullung-do. In low shrubby moist area. Elevation 360 meters. Bulbous perennial to 8 dm. Stem roots, scales white; leaves in 2 whorls, to 150 cm., obovate; bulb shallow. In fruit. Bulbs.

319302. Col. No. K-41. Along east coast of Ullung-do, in dense woods. Elevation 330 meters. Similar to P.I. 319301. Bulbs.

319303. Col. No. K-50. On north face of Mt. Songin-Bong, Ullung-do. Growing under *Fagus*. Elevation 970 meters. Similar to P.I. 319301. Bulbs.

319304. Col. No. K-51. On south slope of Mt. Songin-Bong, Ullung-do. Growing among bamboo. Elevation 970 meters. Similar to P.I. 319301. Bulbs.

319305. *LILIUM LEICHTLINII* var. *MAXIMOWICZII* (Regel) Baker

Col. No. K-94. On temple grounds, Mt. Odai, Kangwon-do. Growing on open grassy slope. Elevation 690 meters. Bulbous perennial to 8 dm. high. Stem rooting. Flower orange, spotted brown, to 8 cm. across; bulbs round. Bulbs.

319306 to 319312. *LILIUM MIQUELIANUM* Makino

319306. Col. No. K-66. On Park Tal Mt. east slope of Sorak Range, Kangwon-do. Elevation 900 meters. Whorled leaves, single whorl; stem rooting; bulbs shatter easily, jointed scales up to 3 segments; flower bilaterally symmetrical, 4 upper, 2 lower tepals face outward, metallic, light orange, sparse spots. Bulbs.

319272 to 319331—Continued

319306 to 319312—Continued

319307. Col. No. 81. On grounds of Taek Wal Yong Alpine Experiment Station, Kangwon-do. Elevation 850 meters. Bulbous perennial, to 9 dm. high; 1 whorl plus leaf below. Stem rooting; scales not jointed; bulbs ovate, to 2.5 cm. long. Leaves lance-elliptic. Whorls about 17 cm. across. Two of 12 plants had stem roots. Bulbs.

319308. Col. No. K-130. In shaded area off trail up to No Go Dan, Mt. Chiri, Cholla Nam-do. Elevation 360 meters. Bulbous perennial. Leaves whorled, whorls 5 to 6 cm. across. Scales not jointed. No stem roots. Bulbs.

319309. Col. No. K-194. Sandy soil in forest of Forest Experiment Station, Kwang Nung, Kyungii-do. Bulbous perennial to 1 meter high. Leaves whorled; scales entire. No stem roots. Bulbs.

319310. Col. No. K-227. Mt. Sokni, Chunchong Pukto, in moist organic soil. Elevation 300 meters. Bulbous perennial to 6 dm. high. Leaves whorled; bulb scales not jointed; no stem roots. Bulbs.

319311. Col. No. K-258. Along trail to Mt. Tok-Yu, Ko Chun. Bulbous perennial. Scales jointed; stems rooting. Bulbs.

319312. Col. No. K-326. In shady, moist areas along trail up Mt. Sork, western slope. Elevation 750 meters. Bulbous perennial. Leaves whorled; scales jointed; stems rooting. Bulbs.

319313. *LILIUM TIGRINUM* var. *FORTUNEI* Hort.

Col. No. K-36. On face of cliff along trail to Bong Nai Waterfall. Elevation 300 meters. Bulbous perennial to 1.5 meters high. Leaves lanceolate. Flowers orange spotted with black. Bulblets axillary on upper half of stem. Bulblets.

319314. *PHILADELPHUS TENUIFOLIUS* Rupr. Saxifragaceae.

Col. No. K-115. Steep slope on Mt. Baek Yang, Cholla Nam-do, growing in partial shade. Elevation 420 meters. Deciduous, to 3 meters high. Leaves opposite, ovate-acuminate. Not seen in flower. Cuttings.

319315. *PINUS DENSIFLORA* Sieb. & Zucc. Pinaceae. Japanese red pine.

Col. No. K-232. Mt. Sokni, Chunchong Pukto. Growing in sandy soil on ridge line. Elevation 630 meters. Needleleaf evergreen to 20 meters high. Bark peeling, reddish. Seedlings.

319316. *POLYGONATUM INFLATUM* Koma. Liliaceae.

Col. No. K-199. Near Forest Experiment Station, Kwang Nung, Kyunggi-do. Moist sandy soil in deep shade in mixed deciduous woods. Herbaceous perennial to $\frac{3}{4}$ meter high. Leaves elliptic. Stout rhizome; stem hollow. Roots.

319317. *POLYGONATUM INVOLUCRATUM* (Fr. & Sav.) Maxim.

Col. No. K-201. Kwang Nung, Kyunggi-do. Moist sandy soil in mixed deciduous forest. Herbaceous perennial. Leaves small, elliptic. Single fruit, blue, enclosed in 2 bracts. Slender rhizome. Roots.

319318. *POPULUS MAXIMOWICZII* A. Henry Salicaceae. Japanese poplar.

Col. No. K-90. Trail on Mt. Odai, Kangwon-do. Growing on bank of stream. Elevation 780 meters. Deciduous tree to 12 meters high. Buds elongate, pointed. Bark grayish white. Cuttings.

319319. *RHODODENDRON BRACHYCARPUM* var. *ROSEUM* Koidz. Ericaceae.

Col. No. K-321. Trail to summit of Mt. Sorak. Growing in shade. Elevation 870 meters. Evergreen shrub to 2 meters high. Leaves lepidote. Plants.

319272 to 319331—Continued

319320. RHODODENDRON CHRYSANTHUM Pall.

Col. No. K-49. At top of Mt. Songin-Bong, Ullung-do. In partial shade. Elevation 980 meters. Broad-leaved evergreen shrub to 2 meters high. Not seen in flower. Cuttings.

319321. RHODODENDRON YEDOENSE var. POUKHANENSE Nakai

Col. No. K-129. On trail from temple to No Go Dan on Mt. Chiri, Cholla Nam-do. Growing in semishade. Elevation 300 meters. Dwarf shrub, possibly from pruning; deciduous. Leaves tend toward linear. Not seen in flower. Cuttings.

319322. SALIX CHAENOMELOIDES Kimura Salicaceae.

Col. No. K-280. Along streambed near Ok Chun. Tall deciduous tree to 20 meters high. Leaves elliptic. Stipules large on young branches. Cuttings.

319323. SALIX KOREENSIS Anderss.

Col. No. K-207. Along rocky streambank, Kwang Nung, Kyunggi-do. Deciduous tree to 10 meters high. Leaves linear-lanceolate. Cuttings.

319324. SAXIFRAGA FORTUNEI (Maxim.) Hook. f. Saxifragaceae.

Col. No. K-146. Growing on rocks in partial shade along trail on Mt. Chiri, Cholla Nam-do. Elevation 1,440 meters. Rosette forming perennial. Flowers in a panicle, white. Zygomorphic. Plants.

319325. SEDUM ERUBESCENS var. JAPONICUM (Maxim.) Ohwi Crassulaceae.

Col. No. K-276. On cliff near road from Muu Ju to Ok Chun. Growing in full sun. Fleshy-leaved herb to about 4 dm. when not in flower. Plants.

319326. SPIRAEA FRITSCHIANA Schn. Rosaceae.

Col. No. K-72. O Saik, Kangwon-do. Along streambed. Deciduous shrub to 1 meter high, spreading. Inflorescence a flat-topped cyme. Not seen in flower. Cuttings.

319327. SPIRAEA PRUNIFOLIA f. SIMPLICIFLORA Nakai

Col. No. K-71. At O Saik, Kangwon-do. Growing in open along stream bed. Elevation 100 meters. Deciduous, to one meter high. Leaves lanceolate, serrate. Not seen in flower. Cuttings.

319328. TAXUS CUSPIDATA Sieb. & Zucc. Taxaceae. Japanese yew.

Col. No. K-443. In open alpine meadow, Mt. Halla, Cheju Island. Elevation 1,500 meters. Needleleaf evergreen shrub to 1.5 meters high. Needles flat. Cuttings.

319329. VIBURNUM KOREANUM Nakai Caprifoliaceae.

Col. No. K-152. In semishade along trail on Mt. Chiri, Cholla Nam-do. Elevation 1,380 meters. Deciduous shrub to 2 meters high. Fruit red. Cuttings.

319330. WEIGELA FLORIDA (Bunge) A. DC. Caprifoliaceae.

Col. No. K-6. Northwest slope, Mt. Halla, Cheju Island. On open slopes with *Rhododendron*. Elevation 1,500 meters. Deciduous shrub; medium size. Flowers red (not seen); twigs reddish. Fruit bottle shaped, red brown, immature. Cuttings.

319331. WEIGELA SUBSESSILIS L. H. Bailey

Col. No. K-124. On drier slope of Mt. Chung Ke, Suwon. Growing in medium shade and rocky, sandy, soil. Elevation 200 meters. Deciduous shrub to 1½ meters high. Leaves elliptic, almost sessile. Flowers reportedly yellowish. Cuttings.

319332 to 319385.

From Mexico. Seeds collected October-December 1966 by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Mar. 29, 1967.

319332. AGERATUM sp. Compositae.

Col. No. 22040. Near Palmito, Durango. Elevation 7,000 feet. Perennial bush; many stems; flowers light purple.

319333. ANNONA CHERIMOLA Mill. Annonaceae. Cherimoya.

Col. No. 22179. 'Cherimoya'. Market in Uruapan, Michoacan. Elevation 5,000 feet. Fruits large, dark green, pear shaped. Flavor very sweet.

319334. BEGONIA sp. Begoniaceae.

Col. No. 22194. Along road to Manzanilla, Colima, 13 miles southwest of Ciudad Colima road fork. Elevation about 1,400 feet. Ornamental herb; large leaves, red peduncles, white flowers.

319335. CAJANUS CAJAN (L.) Millsp. Leguminosae. Pigeon-pea.

Col. No. 22273. In barranca. Atenquisque, at east base of Volcan de Colima, Jalisco. Elevation 3,800 feet. Bush or rapid growing shrub; pods many at ends of branches.

319336. CANAVALIA sp. Leguminosae.

Col. No. 22284. Forty miles northwest of Culiacan along Route 15, Sinaloa. Elevation 600 feet. Perennial vine, large.

319337. CAPSICUM ANNUM L. Solanaceae. Pimento.

Col. No. 22259. 'Chile'. Market in Uruapan, but from San Luis de la Paz, Guanajuato. Green pepper drying dark red; said to be mildly hot.

319338 and 319339. CICER ARIETINUM L. Leguminosae. Chickpea.

319338. Col. No. 22246. 'Garbanza'. Market in Uruapan, but from Morelia. Pale colored.

319339. Col. No. 22257. 'Garbanza'. Market in Uruapan, Michoacan. Small, brownish.

319340. DAHLIA sp. Compositae.

Col. No. 22198. Along road to Manzanillo, Colima, 13 miles southwest of Ciudad Colima road fork. Elevation 1,400 feet. Herb, 4 to 5 dm. high; stems thick; dried flowers on base branches.

319341. DESMODIUM GLABRUM DC. Leguminosae.

Col. No. 21994. Arroyo Gochico above San Bernardo. Herb, 1.5 to 1.8 meters high; stems many, gummy.

319342. DESMODIUM sp.

Col. No. 22003. Arroyo Tejas, Sierra Charuco, Sonora. Elevation 4,500 to 5,000 feet. Pine and oak slopes. Perennial herb; stems very fine, diffuse. Infrequent on dry rocky slope.

319343. DESMODIUM sp.

Col. No. 22004. Arroyo Tejas, Sierra Charuco, Sonora. Elevation 4,500 to 5,000 feet. Pine and oak slopes. Perennial, 20 to 30 cm. high; stems fine, rooting; spreading, forming ground cover.

319344. DESMODIUM sp.

Col. No. 22005. Sierra Charuco, Sonora. Elevation 5,000 feet. Pine and oak slopes in moister canyons. Perennial herb; leaves large; woody stems to 1 meter long.

319332 to 319385—Continued

319345. *DESMODIUM* sp.

Col. No. 22010. Arroyo Terrasas Rio Mayo, Sonora. Short-tree forest. Elevation 2,000 feet. Annual herb, to 2 meters high; crowns diffuse inflorescence.

319346. *DESMODIUM* sp.

Col. No. 22013. Arroyo de Tejas, Sierra Charuco. Elevation 4,000 feet. Erect annual to 6 dm. high with single leaf.

319347. *DESMODIUM* sp.

Col. No. 22018. Near Curo Prieto along road from Navajoa to Alamosa. Annual summer herb, 6 to 15 dm. high.

319348. *DESMODIUM* sp.

Col. No. 22033. Six miles west of Palmito, Sinaloa. Elevation 6,200 feet. Pine and oak forests. Volcanics. Procumbent with coarse, long ascending peduncles.

319349. *DESMODIUM* sp.

Col. No. 22046. Seven miles west of Durango City along route 40, Durango. Elevation 6,700 feet. Erect perennial with sticky stems.

319350. *DESMODIUM* sp.

Col. No. 22281. Santa Rita Rancho along road to Palmito. Elevation 5,400 feet. Perennial herb, 4 dm. high; diffusive crown. On road bank.

319351. *DESMODIUM* sp.

Col. No. 22283. East of Copala, Sinaloa, 3.5 miles. Elevation 2,700 feet. Perennial herb; stems 1 meter long.

319352. *GALACTIA STRIATA* (Jacq.) Urban Leguminosae.

Col. No. 22000. Near Arroyo de los Mescales, northeast of San Bernardo, Sonora. Vine, slender stemmed; pods narrow.

319353. *HIBISCUS COULTERI* Harv. Malvaceae.

Col. No. 21995. Arroyo Gochico above San Bernardo, Sonora. Annual or biennial herb; 6 to 9 dm. high. Seeding.

319354. *IPOMOEA PEDICELLARIS* Benth. Convolvulaceae.

Col. No. 22017. 'Mantila de Maria'. Near Navajoa, Sonora. Elevation 200 feet. Vine; climbing over small trees and shrubs along arroyo.

319355. *IPOMOEA* sp.

Col. No. 21996. 'Trompillo'. San Bernardo, Sonora. Elevation 1,000 feet. Sandy soil. Annual vine, climbing on shrubs.

319356. *IPOMOEA* sp.

Col. 21997. 'Trompillo'. San Bernardo, Sonora. Annual vine; common in fields and roadsides; hairy calyx.

319357. *IPOMOEA* sp.

Col. No. 21998. San Bernardo, Sonora. Elevation 1,000 feet. Rocky slope. Small climbing vine in shady woods; uncommon. Flowers not seen; seeds comose.

319358. *IPOMOEA* sp.

Col. No. 21999. San Bernardo, Sonora. Sandy soil. Elevation 1,000 feet. Small vine in shady woods along small arroyo.

319359. *IPOMOEA* sp.

Col. No. 22085. Twenty-one miles southeast of Durango along Route 45, Durango. Elevation 6,000 feet. Annual weedy vine.

319332 to 319385—Continued

319360. *IPOMOEA* sp.

Col. No. 22093. Near Mesquital 40 miles south of Ciudad Durango, Durango. Elevation 4,800 feet. Weedy vine on trees along arroyo.

319361. *IPOMOEA* sp.

Col. No. 22232. Plan de Barrancas, Jalisco. Elevation 2,800 feet. Vine, in tangle on volcanic rocks.

319362. *IPOMOEA* sp.

Col. No. 22233. Plan de Barrancas, Jalisco. Elevation 2,800 feet. Vine, with thick pedicels.

319363. *IPOMOEA* sp.

Col. No. 22267. La Garita, Jalisco. Elevation 4,200 feet. Wild vine. Seeds maturing early December.

319364. *IPOMOEA* sp.

Col. No. 22268. La Garita, Jalisco. Elevation 4,200 feet. Climbing vine; fruits with long hairy sepals.

319365. *IPOMOEA* sp.

Col. No. 22269. La Garita, Jalisco. Elevation 4,200 feet. Vine with small maturing capsules.

319366 and 319367. *LENS CULINARIS* Medic. Leguminosae. Lentil.

319366. Col. No. 22247. 'Lentejas'. Market in Uruapan, Mochoacan. Elevation 4,800 feet. Cultivated.

319367. Col. No. 22254. 'Lentejas'. Market in Uruapan, but brought from Patzcuaro, Michoacan. Seeds light green.

319368 and 319369. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

319368. Col. No. 22152. Eight miles south of Uruapan along road to Apatzingan, Michoacan. Elevation 4,500 feet. On stream bank Annual herb, semiscandent; stems to eight feet long; flowers yellow. Fruits small in broad racemes.

319369. Col. No. 22280. East of Capala, Sinaloa 2.5 miles. Elevation 2,400 feet. Stems long, semiscandent; fruits small.

319370. *MINKELERSIA GALACTIODES* Mart. & Gal. Leguminosae.

Col. No. 22036. Six miles west of Palmito, Sinaloa. Annual herb trailing on ground under oaks and pines.

319371. *OPERCULINA* sp. Convolvulaceae.

Col. No. 22016. Thorn forest near Navajoa, Sonora. Elevation 200 feet. Coarse vine.

319372. *PACHYRHIZUS EROSUS* (L.) Urb. Leguminosae. Yam-bean.

Col. No. 22265. 'Jicama'. Jocona, Michoacan. Annual herb, erect; spindle shaped; root eaten raw. Locally cultivated.

319373 to 319376. *PISUM SATIVUM* L. Leguminosae. Pea.

319373. Col. No. 22067. 'Chicharo serrano'. Tonachi, 20 miles north of Huachochic, Chihuahua. Elevation 6,500 feet. Cultivated by Tarahumara Indians.

319374. Col. No. 22074. Caborachi, by road 15 miles east of Huachochic, Chihuahua. Elevation 7,500 feet. Cultivated by Tarahumara Indians.

319375. Col. No. 22231. 'Chicharo'. Market in Ciudad Guzman, Jalisco. Elevation 5,000 feet. Smooth; locally grown.

319332 to 319385—Continued**319373 to 319376—Continued**

319376. Col. No. 22253. 'Chicharo'. Market in Uruapan, but brought from Morelia, Michoacan. Small, round.

319377. *POINSETTIA* sp. Euphorbiaceae.

Col. No. 22028. Two to 4 miles above Capala, Sinaloa. Elevation 3,000 feet. Rank growth in rocky gulches. Shrub; branches long; bracts an intense red.

319378. *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**

Col. No. 22245. 'Iguerillo'. Along road to Apatzingan, Michoacan, 10 miles south of Uruapan. Elevation 4,400 feet. All perennial, to 3.5 meters high; racemes terminal.

319379 to 319381. *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**

319379. Col. No. 22258. 'Ajonjoli'. Market in Uruapan, but grown near Apatzingan. Seeds small, pale yellowish.

319380. Col. No. 22293. 'Ajonjoli'. Alamos, Sonora. Cultivated on sandy soils in foothill region.

319381. Col. No. 22294. 'Ajonjoli'. Alamos, Sonora. Elevation 1,200 feet. Seed predominately "white". Locally grown.

319382. *TECOMA* sp. Bignoniaceae.

Col. No. 22088. Along road to Mesquital, 25 miles south of Ciudad Durango, in oak woodland. Elevation 6,650 feet. Shrub to 2 meters high; flowers yellow, showy. On mountain slope subject to winter freezes.

319383 and 319384. *VIGNA SINENSIS* (Torner) Savi Leguminosae.

319383. Col. No. 22287. 'Frijol riata'. Cuchubampo, Rio Mayo, Sonora. Elevation 800 to 1,000 feet. Annual bush; pods 7 to 8 inches long, whitish; seeds gray. Local.

319384. Col. No. 22288. 'Frijol riata'. Cuchubampo, Rio Mayo, Sonora. Elevation 800 to 1,000 feet. Pods 8 inches long, red; seeds large, red. Local.

319385. *ZINNIA LINEARIS* Benth. Compositae.

Col. No. 22052. Along road to Huachochic, Chihuahua, 72 miles west of Parral in grama grassland. Elevation 6,000 feet. Summer annual with yellow rays.

319386 to 319393.

From Pakistan. Seeds presented by E. Nasir, Gordon College, Rawalpindi, under P.L. 480 Project A17-CR-5. Numbered Mar. 30, 1967.

319386. *ADONIS AESTIVALIS* L. Ranunculaceae.

Temperate Europe and Asia. Annual, 3 to 6 dm. high; branched mostly toward top; flowers solitary at ends of branches. Cultivated as an ornamental.

319387. *CARDAMINE IMPATIENS* L. Cruciferae.

Widespread in Europe and North and Central Asia. Annual herb, 2.5 to 6 dm. high; seed retention probably poor. Habitat includes roadsides, forests and fields, usually occurring in shade at 1,000 to 3,400 meters.

319388. *GASTROCOTYLE HISPIDA* Bunge Boraginaceae.

Sandy deserts; Egypt, Israel to Pakistan. Annual, bristly, procumbent; stems numerous, simple or branched; flowers solitary in leaf axils. Often found in cultivated fields.

319386 to 319393—Continued

319389. *IMPATIENS EDGEWORTHII* Hook. f. Balsaminaceae.

Western temperate Himalaya. Elevation 5,000 feet. Annual, tall, robust, branching; fruits probably explosively dehiscent.

319390. *IMPATIENS SULCATA* Wall.

Western temperate Himalaya. Elevation 8,000 feet. Annual herb, to 1 meter or more high; fruits probably explosively dehiscent. Does well near water in rich soil.

319391. *JURINEA CARDUIFORMIS* Jaub & Sp. Compositae.

Baluchistan. Elevation 6,000 feet. Caulescent biennial herb with large heads. In dry areas.

319392. *LITHOSPERMUM TENUIFLORUM* L. f. Boraginaceae.

Mediterranean region, Western Asia to Egypt and Greece. Annual, 1 to 5 dm. high; branching from base; inflorescence a lax raceme.

319393. *PICRIS HIERACIOIDES* L. Compositae.

Widespread in Old World and an introduced weed in United States occurring from New England to Michigan, south to New Jersey, Pennsylvania and Illinois. Annual or biennial herb; tall, corymbosely branched.

319394 to 319397.

From Turkey. Seeds presented by Osman Tosum, Ziraat Fakultesi, Ankara, under P.L. 480 Project A22-CR-1. Numbered Mar. 30, 1967.

319394. *JURINEA ANATOLICA* Boiss. Compositae.

Perennial herb, 5 to 7 dm. high.

319395. *LITHOSPERMUM ARVENSE* L. Boraginaceae.

Native of Eurasia; introduced as weed in waste places nearly throughout United States. Annual from slender taproot; 3 to 8 dm. high; stems often branched from base thence simple to inflorescence; flowers solitary in axils of crowded upper leaves.

319396. *MALVA ALCEA* L. Malvaceae.

Europe; naturalized in eastern United States. Perennial; 1 meter or more high; flowers in terminal and axillary clusters. Cultivated as ornamental.

319397. *THALICTRUM LUCIDUM* L. Ranunculaceae.

Narrowleaf meadowrue.

Europe. Perennial herb; 1 meter or more high; flowers bisexual, small, numerous, crowded in an ovoid or narrow panicle. Cultivated as ornamental.

319398 to 319402.

From Spain. Seeds presented by Instituto Nacional de Investigaciones Agronomicas, Plantas Forrajeras y Pratenses, Madrid, under P.L. 480 Project E25-CR-11. Numbered Mar. 30, 1967.

319398. *CENTRANTHUS MACROSIPHON* Boiss. Valerianaceae.

Native to Spain. Annual, compact; 3 to 6 dm. high; flowers in dense terminal clusters. Cultivated as ornamental.

319399. *CHAMAEPUCE HISPANICA* DC. Compositae.

Annual or biennial herb, thistlelike.

319400. *EUPHORBIA MATRITENSIS* Boiss. Euphorbiaceae.

Annual or perennial herb.

319398 to 319402—Continued**319401. LAPSANA COMMUNIS L. Compositae.**

Common in British Isles, Europe, North Africa, West and Central Asia; introduced in North America. Annual herb, erect, 2 to 9 dm. high; paniculately branched in upper half, branches ascending; heads 1.5 to 2 cm. diameter, 15 to 20 per plant on slender stalks in a more or less corymbose panicle.

319402. MALVA PARVIFLORA L. Malvaceae.

Native of Eurasia. Common weed in waste places in United States. Annual, erect or ascending, branched; 3 to 8 dm. high; flowers axillary, short pedicelled.

319403 and 319404.

From Israel. Seeds presented by National and University Institute of Agriculture, Rehovot, under P.L. 480 Project A10-CR-10. Numbered Mar. 30, 1967.

319403. DAUCUS AUREUS Desf. Umbelliferae.

Mediterranean region. Annual, 1 to 1.5 m. high; stem somewhat corymbose; umbels many rayed.

319404. LAGOECIA CUMINOIDES L. Umbelliferae.

Mediterranean region. Annual herb, erect, 2 to 5 dm. high.

319405 to 319411.

From Yugoslavia. Seeds presented by Univerza v Ljubljani, Biotehniška Fakulteta, Ljubljana, Krekov, under P.L. 480 Project E30-CR-2. Numbered Mar. 30, 1967.

319405. BISCUTELLA LAEVIGATA L. Cruciferae.

Central and southern Europe, Perennial herb; stems 1 to 5 dm. high; simple or branched; flowers in lax or dense racemes, very variable.

319406. CALTHA PALUSTRIS L. Ranunculaceae.

Northern North America, Eurasia. Perennial herb; stem hollow, erect or decumbent; occurring in swamps, wet meadows and woods.

319407. CHAMAEPETALUM AFRA DC. Compositae.

Greece and Yugoslavia. Biennial herb, thistle-like; stem corymbosely branched; heads large, solitary. In rocky subalpine and alpine regions.

319408. PICRIS ECHIOIDES L. Compositae.

Mediterranean region; well established weed in United States in waste places, fields, especially in heavy soil. Perennial herb, erect; branched hispid stems, 5 to 12 dm. long; heads many, usually crowded.

319409. SYMPHYTUM OFFICINALE L. Boraginaceae.**Comfrey.**

Native of Eurasia; escaped or adventive in waste places in North America. Perennial herb, erect, branching, 5 to 10 dm. high; sparsely to densely hirsute; flowers numerous in dense, drooping scorpioid cymes. Cultivated as ornamental.

319410. THALICTRUM FLAVUM L. Ranunculaceae. Yellow meadowrue.

Europe, including Britain. Perennial herb, to 1 m. high; rootstock stoloniferous; flowers bisexual, small, numerous in erect, rather compact corymbose or pyramidal panicle. Cultivated as ornamental.

319411. THLASPI PERFOLIATUM L. Cruciferae.

Widespread in Europe; naturalized in North America. Annual, 1 to 3 dm. high. Weed of arable land and waste places.

319412. PICRIS JAPONICA Thunb. Compositae.

From Korea. Seeds presented by Tchang Bok Lee, College of Agriculture, Seoul National University, Suwon, under P.L. 480 Project A13-CR-1. Numbered Mar. 30, 1967.

Biennial, often branched, 3 to 8 dm. high. Considered by some to be a variety of *P. hieracioides*.

319413. BRASSICA CAMPESTRIS L. Cruciferae. **Bird rape.**

From India. Seeds presented by J. N. Rai, Botany Department, Lucknow University, Lucknow, under P.L. 480 Project A7-CR-37. Numbered Mar. 30, 1967.

'Sarson'. Prain.

319414. AMMI COPTICUM L. Umbelliferae.

From Ethiopia. Seeds collected by R. E. Perdue, Jr., New Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Mar. 30, 1967.

Col. No. 6301. Cultivated in India and Pakistan for seeds. Distributed widely in West Asia, Southern Europe and Northern and Eastern Africa.

Annual herb, medium sized, 3 to 6 dm. high.

319415. OENOTHERA CLAVAEFORMIS Torr. & Frem. Onagraceae.

From the United States. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Mar. 30, 1967.

Col. No. 20589. Desert washes and flats, Southern California, Arizona, Nevada, Sonora and Baja California. Annual with one to several, erect to ascending, mostly unbranched stems from base, 0.5 to 5 dm. high, inflorescence in racemes to 2.5 dm. long.

319416. AMSINCKIA TESSELLATA A. Gray Boraginaceae.

From Mexico. Seeds collected by A. S. Barclay, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Mar. 30, 1967.

Col. No. 2001. Southern California to eastern Washington, Nevada, Arizona, and Lower California. Annual herb, erect, 2 to 6 dm. high; flowers in spikes becoming 5 to 12 cm. long. Dry sandy or gravelly places below 6,000 feet.

319417. BRASSICA CAMPESTRIS L. Cruciferae.

From the United States. Seeds presented by Montana State University, Bozeman, Mont. Numbered Mar. 30, 1967.

No. 224.

319418 to 319422. ZEA MAYS L. Gramineae. **Corn.**

From Colombia. Seeds presented by the Rockefeller Foundation, Bogota. Numbered Mar. 31, 1967.

319418. Ecu.402-8.

319421. Diacol V.551 x 2072

319419. Ecu.425-10.

(S.D.12)

319420. Ecu.578-9 x 2072 (S.D.12).

319422. Cun.365 x 2072 (S.D.12).

319423 to 319436. SOLANUM TUBEROSUM L. Solanaceae. **Potato.**

From Mexico. Tubers presented by the Rockefeller Foundation, Mexico City. Received Apr. 3, 1967.

319423. 'Alpha'.

319425. 'Atzimba'.

319424. 'Anita'.

319426. 'Bertita'.

319423 to 319436—Continued

319427. 'Conchita'.	319432. 'Gabriela'.
319428. 'Dorita'.	319433. 'Greta'.
319429. 'Elenita'.	319434. 'Hilda'.
319430. 'Erendira'.	319435. 58-ES-37.
319431. 'Florita'.	319436. 61-EA-5.

319437. *MALUS SYLVESTRIS* Mill. Rosaceae. **Apple.**

From India. Scions presented by the Division of Plant Introduction, Indian Agricultural Research Institute, New Delhi. Received April 4, 1967.

'Maharaji'. Origin Srinagar.

319438 to 319454.

From Mexico. Seeds collected October-December 1966 by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered April 4, 1967.

319438 to 319446. *PHASEOLUS ACUTIFOLIUS* A. Gray Leguminosae.

319438. Col. No. 22001. Arroyo de Terrasas, Rio Mayo, Sonora. Elevation 2,000 feet. Vine small, slender.

319439. Col. No. 22009. Arroyo de Terrasas, Rio Mayo, Sonora. Short-tree forest. Elevation 2,000 feet. Vine, small, dry, leafless; pods dry. October 16.

319440. Col. No. 22026. Rancho Ortaliza near San Bernardo, Rio Mayo, Sonora. Field side. Vine.

319441. Col. No. 22043. Along Route 45 by water-marked rocks, 20 miles northeast of Ciudad Durango. Elevation 6,000 feet. Grama grassland. Annual vine, slender.

319442. Col. No. 22292. San Bernardo, Sonora. Elevation 1,000 feet. North cerro slope. Vine fine stemmed; pods dry.

319443. Col. No. 22295. 'Serowi'. Movas, Sonora. Beans small, white. Cultivated with summer rains.

319444. Col. No. 22300. Sierra west of Tonichi, Sonora. Elevation 1,500 to 2,000 feet. Moist rocky canyon. Vines small, slender, dry.

319445. Col. No. 22020. Microhondus Station east of highway near Sonora border, Sinaloa. Elevation 1,200 feet. Annual ground vine with good set of curved pods; flowers pink. On gravel borders of new road.

319446. Col. No. 22022. Crossroad Cosala and Highway 15, Sinaloa. Elevation 300 feet. Short-tree forest, rocky slope. Perennial climbing vine; stems fine; flowers pink; pods small.

319447. *PHASEOLUS* sp.

Col. No. 22086. Along road to Mesquital, 25 miles south of Ciudad Durango. Elevation 6,650 feet. Oak grassland, north slope, gully. Small annual or short-lived perennial herb on ground and in brush; flowers yellow.

319448. *PHASEOLUS ADENANTHUS* G. Meyer

Col. No. 22156. Along road to Apatzingan, Michoacan, 13 miles south of Uruapan. Elevation 4,200 feet. Perennial vine on steep grassy slope with oaks; flowers lavender fading yellow; pistil long; pods flat. Locally common.

319449. *PHASEOLUS COCCINEUS* L. **Scarlet runner bean.**

Col. No. 22140. 'Patola'. Market in Aguascalientes, Aguascalientes. Elevation 6,000 feet. Beans large, white or variously colored; grown without poles, forming bushy growth with short runners. Uncommon.

319438 to 319454—Continued

319450 and 319451. *PHASEOLUS METCALFEI* Woot. & Standl. **Metcalf bean.**

319450. Col. No. 22007. Arroyo Tejas, Sierra Charuco, Sonora. Rocky oak slope. Elevation 4,500 feet. Ground vine, coarse. Sparsely scattered.

319451. Col. No. 22056. Barranca 19 miles by road west of Guachochic, Chihuahua. Elevation 7,500 feet. Perennial ground vine on rocky soil with pine needle litter.

319452 and 319453. *PHASEOLUS STROBILOPHORUS* (B. L. Robins.) Morton

319452. Col. No. 22008. West side of Sierra Charuco, four miles north-west of Algodones, Sonora. Elevation 3,500 feet. Steep rocky talus with lower oaks. Large perennial vine on bushes and trees; stems thick, to 1½ inches diameter at base; leaves small; pods 3 to 5 inches long, large, succulent, green, on long hanging peduncles. Rare.

319453. Col. No. 22021. Microhondas station on cerro east of highway near Sonora border, Sinaloa. Elevation 1,000 feet. Short-tree forest. Large vine on trees and shrubs; perennial from tuberous root 3 to 5 inches diameter. Pods large, round. No flowers.

319454. *RHYNCHOSIA DISCOLOR* Mart. & Gal. Leguminosae.

Col. No. 22045. Seven miles west of Durango along Route 40, Durango. Grama Grassland. Elevation 6,700 feet. With oak regrowth. Perennial vine, woody; flowers yellow.

319455 to 319458. *SACCHARUM* (hybrid) Gramineae.

Sugarcane.

From the Dominican Republic. Seeds presented by the Central Romana Corporation, La Romana. Received Apr. 4, 1967.

319455. CR66-231. CB44-105 × Uba Marot.

319456. CR66-457. CL41-223 × Uba Marot.

319457. CR66-460. PR 1000 × CP 52-43.

319458. CR66-280. Q 70 × CP 52-43.

319459 to 319491.

From Tanzania. Seeds grown in 1966 and presented by Northern Research Centre Tengeru, Arusha. Numbered Apr. 7, 1967.

319459. *CENCHRUS CILIARIS* L. Gramineae.

Buffelgrass.

T-359. 'Molopo'.

319460 to 319464. *CHLORIS GAYANA* Kunth Gramineae.

Rhodesgrass.

319460. T-365. 'Chepararia 026'.

319461. T-8364. 'Mpwapwa F16'.

319462. T-8464. 'Mpwapwa V8'.

319463. T-8564. 'Nzoia H18'.

319464. T-8664. 'Mpwapwa F3'.

319465. *CLITORIA TERNATEA* L. Leguminosae.

Asian pigeonwings.

T-2363.

319466. *DESMODIUM DISCOLOR* Vogel Leguminosae.

T-165.

319467. *DESMODIUM DISTORTUM* (Aubl.) Macbride

T-961.

319459 to 319491—Continued

319468. *DESMODIUM INTORTUM* (Mill.) Urb.
T-353.
319469. *DESMODIUM SANDWICENSE* E. Mey.
T-1066.
319470. *DESMODIUM UNCINATUM* (Jacq.) DC.
T-166.
319471. *DESMODIUM* sp.
T-253.
319472. *DOLICHOS FORMOSUS* Hochst. ex A. Rich. Leguminosae.
T-255.
319473. *DOLICHOS LABLAB* L. Hyacinth-bean.
T-966.
- 319474 to 319479. *GLYCINE WIGHTII* (R. Grah. ex Wight & Arn.) Verdcourt
Leguminosae.
319474. T-664. K51394. Grassland Research Station, Kitale, Kenya.
319475. T-1263. 'Kisongo Masailand'.
319476. T-1363. 'Musa Masailand'.
319477. T-1463. 'Lesiraa Masailand'.
319478. T-1563. 'Aridai Masailand'.
319479. T-2063. 'Moshi'.
319480. *INDIGOFERA SPICATA* Forsk. Leguminosae.
T-8263.
319481. *INDIGOFERA SUBULATA* Vahl ex Poir.
T-8163.
319482. *LEUCAENA LEUCOCEPHALA* (Lam.) de Wit Leguminosae. Leadtree.
T-553.
319483. *LOTONONIS BAINESII* Baker Leguminosae.
T-2456.
319484. *MELINIS MINUTIFLORA* Beauv. Gramineae. Molassesgrass.
T-6664.
319485. *PANICUM COLORATUM* L. Gramineae.
T-666.
319486. *PANICUM MAXIMUM* Jacq. Guineagrass.
T-6264.
319487. *RHYNCHOSIA MINIMA* (L.) DC. Leguminosae.
T-1663.
319488. *RHYNCHOSIA SENNAARENSIS* Hochst. ex Schweinf.
T-1963.
319489. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. ex M. B. Moss
Gramineae. Millet.
T-566. 'Improved Nandi'.

319459 to 319491—Continued319490. *STYLOSANTHES GRACILIS* H.B.K. Leguminosae.

T-776.

319491. *TRIFOLIUM RUEPPELIANUM* Fresen. Leguminosae.

T-3863.

319492 to 319523. ORYZA SATIVA L. Gramineae.**Rice.**

From Mexico. Seeds presented by National Institute of Agricultural Research, Department of Agriculture and Livestock, Chapingo. Numbered Apr. 10, 1967.

319492. Bbt. 50/2 × Gulfrose

B589A1-3-1-1-2-2C-1C.

319493. Bbt. 50/2 × Gulfrose

B589A18-21-2-2-3.

319494. Bbt. 50/2 × Jojutla

319495. B5111A1-108-1-5-2-1-4

319496. C24-16-13-3-2-3.

319497. C24-16-13-5-2-7.

319498. C26-12-2-2-5-9.

319499. Cempoala A66.

319500. Corerepe A67.

319501. Costeno A66.

319502. Cotaxtla A66.

319503. CP 231 x HO12.

319504. CP 231 x SLO 17.

319505. Fuerte A64.

319506. Guasave A64.

319507. I.J.30-16.

319508. I.J.32-19-5.

319509. I.B.T. No. 4.

319510. I.B.T. No. 36.

319511. V65-S. 53.

319512. Mo. V65-S. 87.

319513. Mo. V65-S. 81.

319514. Mo. V65-S. 92.

319515. Mo. V65-S. 93.

319516. Mochis A64.

319517. Morado Criollo.

319518. Morelos 2.

319519. Pc.6-2416-Mz-62.

319520. Piedras Negras A67.

319521. Rexoro × Colusa) ×

I.J.30-16 C86-13-16-Cu2-

Cu1-FVI-FV5.

319522. Rio Blanco A66.

319523. Sinaloa A64.

319524. LENS CULINARIS Medic. Leguminosae.**Lentil.**

From Iran. Seeds presented by W. J. Kaiser, United States Department of Agriculture Regional Pulse Improvement Project, Tehran. Numbered Apr. 10, 1967.

From bazaar in Ghazirn, 150 km. west of Tehran.

319525 to 319533. GLYCINE MAX (L.) Merr. Leguminosae.**Soybean.**

From India. Seeds presented by R. Matsuura, United States Department of Agriculture Regional Pulse Improvement Project, New Delhi. Numbered Apr. 10, 1967.

319525. E.C. 132-2. UN 734. From China.

319526. E.C. 16111. 'Mantichin'. From China.

319527. E.C. 16119. 'Pin-tin-hwang'. From China.

319528. E.C. 34109. 'Tsinj-juang'.

319529. E.C. 36895. 'Taitu Kaohsiung 1'.

319530. E.C. 36896. 'Taitu Kaohsiung 3'.

319531. E.C. 36897. 'Taitu Kaohsiung 5'.

319525 to 319533—Continued

319532. E.C. 37053. 'Pin-Din-Kuaw'.

319533. I.C. 193. 'Nanking No. 417'.

319534 to 319538. GLYCINE MAX (L.) Merr. Leguminosae.**Soybean.**

From Japan. Seeds of Chinese origin collected in 1964 from the China Economy-Trade Exhibition, Chuo-ku, Tokyo. Presented through the American Soybean Association. Numbered Apr. 10, 1967.

319534. 'Hoshu No. 4'.

319537. 'Tono No. 1'.

319535. 'Keisanboku'.

319538. No. 6014.

319536. 'Shika No. 4'.

319539. ORYZA SATIVA L. Gramineae.**Rice.**

From Thailand. Seeds presented by R. Purnariksha, Sukhunvir, Bangkok. Numbered Apr. 10, 1967.

No data.

319540. LITCHI CHINENSIS Sonner Sapindaceae.**Lychee.**

From Madagascar. Seeds presented by Luis Marden, National Geographic Society, Washington, D. C. Received Apr. 10, 1967.

From Tananarive.

319541 to 319547. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.**Sweetpotato.**

From Taiwan. Tubers presented by the Plant Industry Division, Joint Commission on Rural Reconstruction, Taipei. Received Apr. 17, 1967.

319541. C41-5. (Tainung No. 17 × Nancy Hall). Vines moderately large, medium long, stems dark green with purple. Leaves cordate, green with reddish purple base. Roots pear-shaped spindle; skin light brown; flesh deep orange; vitamin A 7,800 I.U./100 grams; quality very good to excellent; dry matter 29 to 31%.

319542. C41-74. (Tainung No. 17 × Nancy Hall). Vines slightly small, long, 1.5 to 2.0 meters; stems light green with purple, hairy. Leaves cordate. Roots light yellow brown; long spindle in shape; flesh orange yellow, quality very good; dry matter 29 to 30%.

319543. Tainung No. 27. (American Yellow Skin × White Holland). Vines small, medium long, slightly hairy; stems yellow green, tinged reddish purple. Leaves three lobed. Roots orange yellow; spindle shaped, small to medium in size, flesh light yellow; quality very good; dry matter 36.6 to 38.8%. Medium maturity; resistant to *Fusarium* and contracted disease (*Sphaceloma batatas* Sawada).

319544. Tainung No. 44. (Foreign variety × Tainung No. 14). Vines moderately large, long, 70 to 100 centimeters; stem reddish purple, smooth. Leaves 3- or 5-lobed. Roots russet brown; pear shaped, short spindle; flesh light yellow; quality very good; dry matter 36.2%

319545. Tainung No. 57. (Tainung No. 27 × Nancy Hall). Vines short, slightly hairy; stems coarse, internodes short. Leaves 5-lobed, green with light purple base. Roots yellow brown; fusiform shaped, regular; flesh orange yellow; quality excellent; dry matter 30.4 to 37.7%; vitamin A 2,280 I.U./100 grams. Early maturity, wet tolerant; resistant to *Fusarium*.

319546. Tainung No. 17. (Red Meat × Cake Potato). Vines moderately large, long, slightly hairy; stems yellow green. Leaves 3-lobed or entire, green with deep reddish purple base. Roots reddish purple, long spindle shaped, regular; flesh white; dry matter 36.4 to 40.7%; quality very good. Late maturity, wet tolerant.

319541 to 319547—Continued

319547. Tainung 23. (White Holland \times Nancy Hall). Vines large, long, 1 to 1.5 meters; stems yellow green. Leaves reniform, petioles yellow green. Roots cream buff, spindle shaped, flesh light orange yellow; quality excellent; high in dry matter 37.5%.

319548. FRAGARIA (hybrid). Rosaceae.

From Belgium. Plants presented by the Directeur, Comite de Recherches du Graisier, Grivegnée. Received Apr. 21, 1967.

'Souvenir de Charles Machiroux'.

319549. JUGLANS REGIA L. Juglandaceae. Persian walnut.

From Pakistan. Seeds presented by the Agricultural Research Council, Karachi. Received Apr. 24, 1967.

Collected from Hunza area, by the Assistant Director of Agriculture, Gilgit. Five thousand feet above sea level.

319550 to 319690.

From Mexico. Seeds collected October-November 1966 by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Apr. 24, 1967.

**319550 and 319551. PHASEOLUS ACUTIFOLIUS var. LATIFOLIUS G. F. Freeman
Leguminosae. Tepary bean.**

319550. Col. No. 22079. 'Frijol blanco'. San Juan del Rio, Durango. Elevation 6,000 feet. Small; white. Bush type. October 1966.

319551. Col. No. 22207. 'Frijol blanco'. Market in Ciudad Guzman, Jalisco. Elevation 5,000 feet. Small; white. November 1966.

319552 to 319690. PHASEOLUS VULGARIS L. Leguminosae. Common bean.

319552. Col. No. 22047. 'Frijol jorocho'. Large buff, angular. Cultivated with summer rains.

319553. Col. No. 22048. 'Frijol rata y bayo'. Mixture; sample taken as thrashed; dark gray.

319554. Col. No. 22051. Temporales del Huajojitan, Chihuahua. Elevation 5,200 feet. Annual, coarse; pinto type.

319555. Col. No. 22053. 'Ojo de cabra'. Guachochic, Chihuahua. Elevation 7,500 to 8,000 feet. Bush type; local.

Store in Guachochic, Chihuahua. Elevation 7,500 to 8,000 feet.

319556. Col. No. 22054. Mixture. Bush type; local.

319557. Col. No. 22055. 'Mantequilla' and 'Ojo de cabra'. Mixture of two varieties. Bush type; local.

By road, 19 miles west of Guachochic, Chihuahua. Elevation 7,500 feet.

319558. Col. No. 22057. 'Frijol Prieto'. In barranca. Small, black, Bush type; versatile for food preparation.

319559. Col. No. 22058. 'Frijol de verano'. Small, red. Reported planted by Tarahumare Indians.

319560. Col. No. 22059. 'Frijol norteno'. Bush type; reportedly grown by local owner for over 30 years. In canyon.

319561. Col. No. 22060. 'Frijol japones'. Bush type. Reportedly grown for over 30 years.

319562. Col. No. 22061. 'Frijol amarillo de la sierra'. Large, pale yellow. Bush type.

319550 to 310690—Continued

319552 to 319690—Continued

319563. Col. No. 22062. 'Frijol de estaca'. Large, gray, black brindled. Pole type; local.
319564. Col. No. 22063. Large, yellow. Pole type.
Tonachi, 20 miles north of Huachochic, Chihuahua. Elevation 6,500 feet.
Volcanic canyon. Cultivated by Tarahumare Indians.
319565. Col. No. 22064. 'Frijol amarillo'. Thin, yellow.
319566. Col. No. 22065. 'Frijol blanco'.
319567. Col. No. 22066. 'Frijol bayo'.
Caborachi, by road 15 miles east of Huachochic, Chihuahua. Elevation 7,500 feet. Cultivated by Tarahumare Indians.
319568. Col. No. 22069. 'Muni laname'. (T.) Yellow.
319569. Col. No. 22071. Large, buff. Bush type.
319570. Col. No. 22072. Variegated. Bush type.
319571. Col. No. 22075. Small, red. Bush type.
Market in Parral, Chihuahua. Elevation 6,500 feet.
319572. Col. No. 22076. 'Frijol mantequilla'. Bush type; local.
319573. Col. No. 22077. 'Frijol mantequilla gorda'. Pinto, bush type.
319574. Col. No. 22078. 'Frijol rata'. Lavender. Bush type; local.
319575. Col. No. 22080. 'Frijol pinto'. Bush type; local. Easily cooked.
319576. Col. No. 22081. 'Frijol mantequilla'. Bush type. Much cultivated in Durango.
319577. Col. No. 22082. 'Frijol coracho'. Large, buff. Bush type; locally common.
319578. Col. No. 22094. 'Frijol mantequilla'. Nombre de Dios, Durango. Elevation about 5,800 feet. Pinto. Bush type. Planted locally with summer rains.
Sombrerete, Zacatecas. Elevation 7,500 feet.
319579. Col. No. 22096. 'Frijol negro'. Small, black. Bush type.
319580. Col. No. 22097. 'Frijol canelo'. Rosy roan. Bush type. Grown with summer rains.
319581. Col. 22098. 'Frijol garbancillo'. Pale buff. Bush type. Grown with summer rains.
Fresnillo, Zacatecas. Elevation about 6,000 feet.
319582. Col. No. 22099. Pink. Bush type; local.
319583. Col. No. 22100. 'Frijol bayo garbanzo'. High yielding buff. Bush type. Common. Grown with summer rains.
Market in Zacatecas. Elevation about 7,500 feet.
319584. Col. No. 22102. 'Aluvia'. Small, white. Bush type; local.
319585. Col. No. 22103. 'Frijol garbancillo'. Small, rounded, pale yellow with yellow eye. Bush type.
319586. Col. No. 22104. 'Frijol barqueno'. Thin; dull yellow. Bush type.
319587. Col. No. 22105. 'Frijol ejotero'. Elongate; black and white, mostly black. Snap, pole type.

319550 to 310690—Continued

319552 to 319690—Continued

319588. Col. No. 22106. 'Frijola'. Large, angular; buff. Bush type. Much grown on central plateau.
319589. Col. No. 22107. 'Frijol negro'. Small; black. Bush type.
319590. Col. No. 22108. 'Frijol canario'. Small; pale yellow. Mixture. Bush type. Not the 'Canario' of Jalisco.
319591. Col. No. 22109. 'Frijol flor de Mayo'. Yellow flushed with pink. Bush type. Not the 'Flor de Mayo' of Aguascalientes and Jalisco. Market in Aguascalientes, Aguascalientes. Elevation about 6,000 feet.
319592. Col. No. 22110. 'Frijol garbancillo blanco'. Small, roundish, pale; yellow eye.
319593. Col. No. 22111. 'Frijol grulla'. Tan. Bush type; local.
319594. Col. No. 22112. 'Aluvia mediana'. Medium; white.
319595. Col. No. 22113. 'Frijol japones'. Large, round; bright pink and white.
319596. Col. No. 22114. 'Frijol garbancillo'. Small; pale yellow with yellow and white eye. Bush type.
319597. Col. No. 22115. 'Frijol almendrilla'. Thin, elongate; pale yellow.
319598. Col. No. 22116. 'Frijol garbanza'. Roundish; pale yellow with orange and white eye. Bush type.
319599. Col. No. 22117. 'Frijol rosa de Castilla'. Large; pink and white flushed.
319600. Col. No. 22118. 'Frijol cacahuatate'. Narrow, thin; tan with red purple markings; local.
319601. Col. No. 22119. 'Frijol morada de agua'. Mixed shades of purple. Bush type.
319602. Col. No. 22120. 'Frijol chivitas'. Small; gay, red and white. mottled.
319603. Col. No. 22121. 'Frijol higuerrilla'. Pale, pinto. Locally popular.
319604. Col. No. 22124. 'Frijol negro'. Small; black. Bush type.
319605. Col. No. 22125. 'Frijol negro'. Large; black; local.
319606. Col. No. 22126. 'Frijol apetito'. Small; purplish. Bush type.
319607. Col. No. 22127. 'Frijol bayo rata'. Plump; tan to lavender. Common. Bush type.
319608. Col. No. 22128. 'Frijol canelo'. Mottled lavender. Common.
319609. Col. No. 22129. 'Frijol ojo de liebre'. Brindled gray brown. Common in northwest Mexico. Bush type.
319610. Col. No. 22130. 'Aluvia'. Small; white. Bush type.
- Col. No. 22131. 'Barqueno and flor de mayo'. Grown with summer rains. Bush type. Divided into 4 components.
319611. Mixture.
319612. Elongated, tan with dark eye.
319613. Plump. White with brown mottling.
319614. Tan with brown mottling.
319615. Col. No. 22132. 'Frijol rebosero'. Well filled; lavender, slightly mottled. Bush type.

319550 to 310690—Continued

319552 to 319690—Continued

319616. Col. No. 22133. 'Frijol apesimo'. Small; lavender. Mixture. Bush type.
319617. Col. No. 22134. 'Frijol garapato'. Tan. Bush type. Grown with summer rains.
319618. Col. No. 22135. 'Frijol flor de mayo'. Lavender with pale mottlings. Bush type.
319619. Col. No. 22136. 'Frijol canario'. Slender; pale yellow. Grown with summer rains.
319620. Col. No. 22137. 'Frijol bayo rosada'. Blocky; yellow. Bush type. Common.
319621. Col. No. 22138. 'Frijol bayo'. Small; shiny, yellow. Bush type. Common.
319622. Col. No. 22139. 'Frijol negro'. Small; black. Bush type. Market in Uruapan, Michoacan. Elevation about 5,000 feet.
319623. Col. No. 22146. 'Frijol amapolo'. Small; variably pinkish.
319624. Col. No. 22147. 'Frijol san morano'. Small, roundish; tan.
319625. Col. No. 22148. 'Frijol Patzcuareno'. Long; pinkish. From Patzcuaro.
319626. Col. No. 22149. 'Frijol cucunita'. Large; pale speckled. From Patzcuaro.
319627. Col. No. 22150. 'Frijol rosita'. Small; dull colored primitive appearance. Cultivated around Zamora, with or without irrigation. Market in Los Reyes, Michoacan. Elevation 4,800 feet.
319628. Col. No. 22157. 'Frijol mexiano bola'. Well-rounded shiny, light buff. Bush type with summer rains; grown locally on poles when irrigated.
319629. Col. No. 22158. 'Frijol rosita'. Brought from Zamora. Small; light tan.
319630. Col. No. 22159. 'Frijol pastilla'. Brought from Zamora. Well rounded; shiny, tan.
319631. Col. No. 22160. 'Frijol apesimo'. Brought from Zamora. Light tan with big red eye.
319632. Col. No. 22161. 'Frijol flor de Mayo'. From Nayarit. Pale, mottled pink.
319633. Col. No. 22162. 'Frijol buen gusto'. From Guadalajara, Jalisco. Light buff. Common.
319634. Col. No. 22163. From Zamora. Light speckled.
319635. Col. No. 22164. From Zamora. Mixture of seed color.
319636. Component of P.I. 319635. Large, light yellow seed.
319637. Component of P.I. 319636. Lavender seed. Market in Uruapan, Michoacan. Elevation about 5,000 feet.
319638. Col. No. 22165. 'Frijol paralena'. From Patzcuaro. Narrow; brown with small white eye. Grown by Tarascan Indians.
319639. Col. No. 22166. 'Frijol marceno'. From Patzcuaro. Small; pole type.
319640. Col. No. 22167. From Patzcuaro. Elongate; brownish. Probably pole type.

319550 to 310690—Continued

319552 to 319690—Continued

319641. Col. No. 22168. Roundish; brightly bicolored red and white. Grown locally by Tarascan Indians.
319642. Col. No. 22169. 'Amapolo de camino'. From Urandulo. Light pink.
319643. Col. No. 22170. 'Frijol rancherito'. From Patzcuaro. Mixed colors.
319644. Col. No. 22171. 'Frijol caniro'. From Morelia. Elongate; yellow. Common on Jalisco plateau.
319645. Col. No. 22172. From Patzcuaro. Mixed colors.
319646. Col. No. 22173. 'Frijol bayo'. From Patzcuaro. Large, variable size; pale.
319647. Col. No. 22174. 'Frijol morito'. Roundish; bicolored, striped brown. Pole type. Yields well.
319648. Col. No. 22191. 'Frijol bayo'. Cofradia de Suchitlan, Colima. Elevation about 4,000 feet. Volcanics. Small, thin; light. Grown locally.
- Market in Ciudad Guzman, Jalisco. Elevation about 5,000 feet.
319649. Col. No. 22203. 'Frijol azufrado'. Small; pale yellow; viny. Common in highlands.
319650. Col. No. 22204. 'Frijol mesquitillo'. Small; yellowish.
319651. Col. No. 22205. 'Frijol blanco'. Small; white.
319652. Col. No. 22206. 'Frijol blur de Mayo'. Pale, buff, faintly maculated.
319653. Col. No. 22208. 'Frijol garbancillo'. Small, round; pale yellow.
319654. Col. No. 22209. 'Frijol ciceleno'. Semiring stripes. Pale.
319655. Col. No. 22210. 'Frijol perlita'. Small; tan to buff.
319656. Col. No. 22211. 'Frijola'. Large, rounded; greenish buff.
319657. Col. No. 22212. 'Frijol barraleno'. Brown. Grown in heavy soil.
319658. Col. No. 22213. 'Frijol apetito morado'. Uniform, roundish; purplish.
319659. Col. No. 22214. 'Frijol mexicano'. Irregular size; pale.
319660. Col. No. 22215. 'Frijol cacahuete'. Long; pink.
319661. Col. No. 22216. Frijol apetito'. Rounded; pink.
319662. Col. No. 22217. 'Frijol sanque de gallina'. Elongate; pale pink.
319663. Col. No. 22218. 'Frijol jabones'. Long; red speckled.
319664. Col. No. 22219. 'Frijol apetito'. Well filled; pale with red-rimmed white eye.
319665. Col. No. 22220. 'Frijol zacaticano'. Speckled or pinto.
319666. Col. No. 22221. 'Frijol leche'. Blocky; nearly white.
319667. Col. No. 22222. 'Frijol negro'. Well rounded; black. Pole type.
319668. Col. No. 22223. 'Frijol mexicano'. Shiny buff.
319669. Col. No. 22224. 'Apetito blanco'. Blocky; light yellowish.
319670. Col. No. 22225. 'Frijol verde'. Large, rounded; pale green.

319550 to 310690—Continued**319552 to 319690—Continued**

319671. Col. No. 22226. 'Frijol flor de mayo'. Mixed tan and mottled pale pink.
319672. Col. No. 22227. 'Frijol garbancillo'. Small, rounded; yellowish.
319673. Col. No. 22228. 'Frijol rosita'. Small, variable; dun. Rather primitive.
319674. Col. No. 22229. 'Frijol apetita'. Blocky, uniform; light. *Vigna*-like.
319675. Col. No. 22230. 'Frijol garbancillo'. Blocky, rounded; pale yellowish. Common.
- Market in Tepic, Nayarit. Elevation 3,000 feet.
319676. Col. No. 22242. 'Frijol negro'. Black. Reported cultivated about Sacualpan.
319677. Col. No. 22243. 'Frijol bolito'. Round; greenish yellow. Reportedly from San Pedro.
319678. Col. No. 22244. 'Frijol azufrado'. From Santiago. Small yellowish tan.
- Market in Uruapan, Michoacan.
319679. Col. No. 22248. 'Pazcuareno frijol'. Cultivated near Patzcuaro. Large, long; buff.
319680. Col. No. 22249. 'Frijol de Ajun'. Grown at Ajun. Apparently vine. Seed small, mixed colors.
319681. Component of P.I. 319680. Seed black.
319682. Component of P.I. 319680. Seed lavender, dark mottlings.
319683. Col. No. 22250. 'Frijol morada bolita'. Grown near Morelia. Round; red.
319684. Col. No. 22251. 'Frijol Higuerrilla'. Well rounded pinto with yellow eye.
319685. Col. No. 22252. 'Frijol cacahuete'. From San Luis de la Paz. Large, long, with red markings.
319686. Col. No. 22285. 'Frijol apetito morado'. Atenquique, Jalisco. Elevation about 3,000 feet. Reddish to tan. Common.
319687. Col. No. 22286. 'Frijol azufrado'. Acajoneta, Tepic. Elevation 200 feet. Small; pale yellow. Common in Nayarit and Sinaloa lowlands.
319688. Col. No. 22296. 'Frijol mantequilla'. Large, pinto. Grown with irrigation.
319689. Col. No. 22297. 'Frijol pinto'. Small, pinto.
319690. Col. No. 22299. Tonichi, Sonora. Pinto; reportedly grown in the sierras.

319691. CRAMBE ABYSSINICA Hochst. ex R. E. Fries Cruciferae.
From Canada. Seeds presented by R. K. Downey, Canada Department of Agriculture, Research Branch, Saskatoon, Sask. Received Apr. 26, 1967.
CD 6619. Increased at Morden Experimental Farm in 1964. Originally from Sweden.

319692 to 319694. BRASSICA CAMPESTRIS var. SARSON Prain Cruciferae.
From India. Seeds presented by J. N. Rai, Botany Department, Lucknow University, Lucknow, under Public Law 480 project A7-CR-37.

319692 to 319694—Continued

319692. In46755.

319693. In46756.

319694. In46760.

319695. LYCOPERSICON ESCULENTUM Mill. Solanaceae.**Tomato.**

From the United States. Seeds held at the Regional Plant Introduction Station, Geneva, N.Y. Numbered Apr. 27, 1967.

G-14417. 'Ronita'. Originally from France via Canada. Vine, semi-determinant, uniform, vigorous, 26 inches by 43 inches wide; late maturing. Fruit resembles 'Roma'; 5.5 cm. by 4.4 cm. diameter; uniform ripening, uniform dark red. Nematode resistant.

319696. GLYCINE TOMENTELLA Hayata Leguminosae.

From Australia. Seeds presented by J. E. Bligh, Anchorfield, Brookstead, Queensland. Numbered Apr. 27, 1967.

Original seed from Australia, April 1959. Increased in greenhouse at University of Illinois, Urbana in 1961 as plant L61g-54A-1.

319697. GLYCINE TABACINA Benth. Leguminosae.

From Taiwan. Seeds presented by W. T. Tang, National Taiwan University, Taipei. Numbered Apr. 27, 1967.

Seed taken from a plant specimen originating in Quemoy Island. Reproduced in 1965 at University of Illinois, Urbana.

319698. PEPONIA VOGELII Hook. f. Cucurbitaceae.

From Kenya. Seeds collected by C. E. Smith, New Crops Research Branch, Crops Research Division, Beltsville, Maryland.

Numbered Apr. 27, 1967.

Col. No. 4647. Mt. Kilimanjaro. Elevation 6,500 feet.

319699. ORYZA SATIVA L. Gramineae.**Rice.**

From Saudi-Arabia. Seeds presented by the Chinese Agricultural Mission, Hofuf, Al Hassa. Numbered Apr. 27, 1967.

'Hassawi'. Reported to be salt tolerant. Local type grown in area for 2 centuries.

319700 to 319704. ORYZA SATIVA L. Gramineae.**Rice.**

From Colombia. Seeds presented by the Centro Nacional de Investigaciones Agropecuarias, Palmira. Numbered Apr. 27, 1967.

319700. ICA 1. T112E-6T-4P-2T-1P.

319701. ICA 2. T145C-1P-4T-1P-1P.

319702. ICA 7. T181E-6P-1T-2P.

319703. ICA 5. T112E-6T-1P-2T-1P.

319704. ICA 10. T112D-7P-5T-1P-2T.

319705 to 319708.

From Zambia. Seeds collected by C. E. Smith, New Crops Research Branch, Crops Research Division, Beltsville, Maryland. Numbered Apr. 27, 1967.

319705 to 319707. PHASEOLUS VULGARIS L. Leguminosae. **Common bean.**
Col. No. 4670. From Abercorn Market.

319705. No. 1. White.

319706. No. 2. Yellow-green, dark eye zone.

319705 to 319708—Continued**319705 to 319707—Continued**

319707. No. 3. Mixture.

319708. *ZEHNERIA* sp. Cucurbitaceae.

No collection number. From forest area near Ndola. Vine clambering over shrubs; in partial shade.

319709 to 319711. ARACHIS HYPOGAEA L. Leguminosae.

From Israel. Seeds presented by the Plant Introduction Service, National and University Institute of Agriculture, Rehovoth. Numbered Apr. 27, 1967.

319709. 1964-1570-2.

319710. 1964-1570-4.

319711. 1964-1572-1.

319712 and 319713.

From Rumania. Seeds presented by I.C.C.P.T. Fundulea, Bucuresti. Numbered Apr. 27, 1967.

319712. *MEDICAGO SATIVA* L. Leguminosae.**Alfalfa.**

H.652. Fundulea.

319713. *ONOBRYCHIS VICIFOLIA* Scop. Leguminosae.**Sainfoin.**

I.C.A.6. Turda.

319714 to 319814. ARACHIS HYPOGAEA L. Leguminosae.

From Israel. Seeds grown in 1966 and presented by Amram Ashri, Faculty of Agriculture, Hebrew University, Rehovoth. Numbered Apr. 27, 1967.

319714. Line 123.	319736. No. 331-18.
319715. Line 136.	319737. No. 331-19.
319716. 'Pearl White'.	319738. No. 331-20.
319717. 'Virginia Adom'.	319739. No. 331-21.
319718. 'Virginia Beit-Dagan No. 4'.	319740. No. 331-22.
319719. No. 1012.	319741. No. 331-24.
319720. No. 1013.	319742. No. 331-26.
319721. No. 331-1.	319743. No. 331-27.
319722. No. 331-2.	319744. No. 331-28.
319723. No. 331-3.	319745. No. 331-29.
319724. No. 331-4.	319746. No. 331-30.
319725. No. 331-6.	319747. No. 331-31.
319726. No. 331-7.	319748. No. 331-32.
319727. No. 331-8.	319749. No. 331-34.
319728. No. 331-9.	319750. No. 331-35.
319729. No. 331-10.	319751. No. 331-38.
319730. No. 331-11.	319752. No. 331-39.
319731. No. 331-12.	319753. No. 331-45.
319732. No. 331-14.	319754. No. 331-46.
319733. No. 331-15.	319755. No. 1064-26.
319734. No. 331-16.	319756. No. 1065-7.
319735. No. 331-17.	319757. No. 1065-20.

319714 to 319814—Continued

319758. No. 1066-5.	319787. No. 1068-6.
319759. No. 1066-7.	319788. No. 1068-7.
319760. No. 1066-9.	319789. No. 1068-8.
319761. No. 1066-11.	319790. No. 1068-9.
319762. No. 1066-12.	319791. No. 1068-10.
319763. No. 1066-13.	319792. No. 1068-11.
319764. No. 1066-16.	319793. No. 1068-14.
319765. No. 1066-17.	319794. No. 1068-15.
319766. No. 1066-18.	319795. No. 1068-16.
319767. No. 1066-19.	319796. No. 1068-17.
319768. No. 1066-20.	319797. No. 1068-19.
319769. No. 1066-22.	319798. No. 1068-20.
319770. No. 1066-27.	319799. No. 1068-21.
319771. No. 1066-29.	319800. No. 1068-22.
319772. No. 1066-30.	319801. No. 1068-23.
319773. No. 1066-31.	319802. No. 1068-24.
319774. No. 1066-32.	319803. No. 1068-25.
319775. No. 1066-34.	319804. No. 1068-28.
319776. No. 1066-35.	319805. No. 1068-30.
319777. No. 1066-36.	319806. No. 1068-31.
319778. No. 1066-37.	319807. No. 1068-32.
319779. No. 1066-38.	319808. No. 1068-33.
319780. No. 1066-39.	319809. No. 1068-34.
319781. No. 1066-40.	319810. No. 1968-35.
319782. No. 1067-7.	319811. No. 1068-36.
319783. No. 1067-35.	319812. No. 1069-36.
319784. No. 1968-1.	319813. No. 1070-9.
319785. No. 1068-2.	319814. No. 1070-34.
319786. No. 1068-5.	

319815 to 319829.

From Norway. Seeds presented by the Director, Oslo University Botanic Gardens, Oslo. Code numbers taken from the 1967 Index Seminum of the Garden. Numbered Apr. 27, 1967.

319815. *ALOPECURUS ARUNDINACEUS* Poir. Gramineae. **Foxtail.**
No. 858.
319816. *AMMOPHILA ARENARIA* (L.) Link Gramineae. **Beachgrass.**
No. 222. Klepp: Revtangen, Rogaland county.
- 319817 and 319818. *ASTRAGALUS GLYCYPHYLLLOS* L. Leguminosae.
319817. No. 86. Baerum: Boroya, Akershus county.
319818. No. 87. Frogen: Hallangspoller, Akershus county.
319819. *ELYMUS ARENARIUS* L. Gramineae. **European dunegrass.**
No. 232. Baerum: Boroya, south side, Akershus.

319815 to 319829—Continued

319820. *HEMEROCALLIS DUMORTIERI* Morren Liliaceae. Daylily.
No. 928.
319821. *HOSTA VENTRICOSA* (Salisb.) Stearn Liliaceae.
No. 929.
- 319822 and 319823. *LOTUS CORNICULATUS* L. Leguminosae.
Birdsfoot trefoil.
319822. No. 90. Lom: Smadalen, hill above Smorliseter. South-facing
gabbro rocks, Oppland. Elevation 1,150 meters.
319823. No. 91. Kvinnherad: Rosendal, Hordaland.
319824. *ONOBRYCHIS VICIFOLIA* Scop. Leguminosae. Sainfoin.
No. 607.
319825. *PHALARIS ARUNDINACEA* L. Gramineae. Reed canarygrass.
No. 239. Baerum: Boroya, Akershus.
319826. *SYRINGA AMURENSIS* Rupr. Oleaceae. Manchurian lilac.
No. 634.
319827. *SYRINGA REFLEXA* C. Schneid. Oleaceae. Nodding lilac.
No. 635.
319828. *TRIFOLIUM FRAGIFERUM* L. Leguminosae. Strawberry clover.
No. 609.
319829. *TRIFOLIUM LUPINASTER* L. Leguminosae.
No. 611.

319830 to 319838. *PONCIRUS TRIFOLIATA* (L.) Raf. Rutaceae.
Hardy orange.

From Australia. Seeds presented by the Division of Horticulture, New South
Wales Department of Agriculture, New South Wales. Grown at the
Horticultural Research Station, Narara, New South Wales. Received
June 2, 1967.

- | Small-flowered strain. | Large-flowered strain. |
|------------------------|------------------------|
| 319830. Sel. 10. | 319835. Sel. 178. |
| 319831. Sel. 22. | 319836. Sel. 179. |
| 319832. Sel. 23. | 319837. Sel. 191. |
| 319833. Sel. 48. | Tetraploid strain. |
| 319834. Sel. 180. | 319838. Sel. 67. |

319839 to 319841. *FRAGARIA* (hybrid). Rosaceae.

From the Union of Soviet Socialist Republics. Plants presented by the Insti-
tute of Plant Industry, Leningrad. Received June 5, 1967.

319839. 'Cernobrivka'. ('Premier' × 'Indijskaja'). Developed at Majkop
Experiment Station. Plants medium tall, compact, leafy, vigorous; fruits
large, conical, dark red, glossy; flesh firm, dark red; flavor good; early,
winter hardy, relatively drought resistant, productive.
319840. 'Festival'naja'. ('Obil'naja' × 'Premier'). Developed at Pav-
lovsk Experiment Station. Plants tall, leafy, slightly spreading; fruits
very large, oblong, bright red, glossy; flesh rosy, rather firm, high yield-
ing; winter hardy, middle early.
319841. 'Vnuchka'. Developed at the Horticultural Research Institute of
the non-chernozem soil zone, Moscow. Early ripening.

- 319842. PYRACANTHA COCCINEA** Roemer Rosaceae. **Scarlet firethorn.**
From New Zealand. Plants presented by R. E. Harrison and Company, 374 Albert Street, Palmerston North. Received June 5, 1967.
'Magnifica'.
- 319843 to 319846. LEUCAENA LEUCOCEPHALA** (Lam.) de Wit Leguminosae. **Leadtree.**
From Venezuela. Seeds presented by G. P. Gibbs, Apartado 393, Barquisimeto. Received April 28, 1967.
From local sites; arid area. Elevation 500 meters.
- 319843.** 'El Salvador'. **319845.** 'Singapur'.
319844. 'Peruvian'. **319846.** 'Venezuelano'.
- 319847. MALUS SYLVESTRIS** Mill. Rosaceae. **Apple.**
From Australia. Scions presented by the Victorian Plant Research Institute, Burnley, Victoria. Received May 1, 1967.
'Granny Smith'.
- 319848 and 319849. SOLANUM TUBEROSUM** L. Solanaceae. **Potato.**
From Japan. Tubers presented by the Hokkaido National Agricultural Experiment Station, Potato Breeding Center, Shimamatsu, Eniwa, Hokkaido. Received May 2, 1967.
- 319848.** 'Hokkai No. 45'.
319849. 'Hokkaiaka'.
- 319850 and 319851. FRAGARIA** (hybrid). Rosaceae.
From Germany. Plants presented by Reinhold Hummel, Stuttgart-Weilimdorf Kostlinstr. Received May 4, 1967.
- 319850.** 'Hummi-Gehro'.
319851. 'Hummi-Grande'.
- 319852. PRUNUS AVIUM** L. Rosaceae. **Sweet cherry.**
From Canada. Scions presented by the Research Station, Canada Department of Agriculture, Summerland. Received May 8, 1967.
2C-27-19.
- 319853. TRITICUM AESTIVUM** L. Gramineae.
From the Union of Soviet Socialist Republics. Seeds presented by Lazar Volin, East European Branch, Foreign Agricultural Service, Washington, D.C. Numbered May 8, 1967.
Collected in 1964 south of Moscow.
- 319854 and 319855.**
From Thailand. Seeds presented by Richard Keirstead, Baptist Mission, Chiangmai. Received May 8, 1967.
- 319854. SOLANUM** sp. Solanaceae.
Collected near Kang Haw village, Nan Province. Elevation 4,200 feet. Resembles wild eggplant; reported edible.
- 319855. SOLANUM** sp.
Collected near Huai Khu village, Chiang Rai Province. Elevation 3,400 feet. Resembles wild eggplant.

319856 and 319857. TRITICUM AESTIVUM L. Gramineae.

From Chile. Seeds presented by Estacion Experimental "La Platina", Instituto de Investigaciones Agropecuarias, Santiago. Received May 8, 1967.

319856. 'Baflo'. Spring type.

319857. 'Raco'. Spring type.

319858 to 319860. DAUCUS CAROTA L. Umbelliferae. Carrot.

From Japan. Seeds presented by Takii and Company, Ltd., Kyoto. Received May 8, 1967.

319858. 'Early Scarlet Wonder'. Matures 1 week earlier than Takii's Scarlet Wonder.

319859. 'Heian Long Scarlet Wonder'. Improved type, longer than Takii's Scarlet Wonder and matures about 1 week later.

319860. 'Takii's Scarlet Wonder'. Typical variety of this type still produced in sizable quantity.

319861 and 319862. PHASEOLUS VULGARIS L. Leguminosae.

Common bean.

From Canada. Seeds presented by G. A. Kemp, Canada Department of Agriculture, Research Station, Lethbridge, Alberta. Received May 8, 1967.

319861. 'Princess of Artois'. Pod flat, wide; seed white, large, flat.

319862. 'Green seed-coat'. Seed medium size, straight, plump; seed coat pale green, cream, or white. Mature pod remains green upon drying.

319863 to 319869.

From Turkey. Seeds collected in 1965 by J. R. Harlan, Department of Agronomy, Oklahoma State University, Stillwater, Oklahoma. Numbered May 8, 1967.

319863 to 319867. HORDEUM VULGARE L. Gramineae.

Barley.

Exact origin of the samples unknown.

319863. No. 1.

319864. No. 2.

319865. No. 3a. White seed.

319866. No. 3b. Black seed.

319867. No. 3c.

319868 and 319869. TRITICUM DICOCCUM Schrank Gramineae.

Emmer.

Exact origin of the samples unknown.

319868. No. 1.

319869. No. 2.

319870 to 319872. PHASEOLUS VULGARIS L. Leguminosae.

Common bean.

From the United States. Seeds held at the Regional Plant Introduction Station, Geneva, N.Y. Numbered May 8, 1967.

Bred by A. B. Strand, Dandridge, Tennessee. Received 1962.

319870. Col. No. 62-469. G-11916. 'Wade' × P.I. 117232. Bush, to 12 inches high; medium uniformity and vigor. Leaf small, medium green; 47 days to bloom. Flowers purple. Medium set. Harvested August 22, 1966. Pod 11.5 by 1.3 cm., flat, straight to curved, green. Seeds long oval, plump, reddish brown to dark brown; segregating, very stringy, susceptible to root rot; slight susceptibility to anthracnose and bacterial blight races BV1 and BV2.

319870 to 319872—Continued

319871. Col. No. 62-470. G-11917. 'Wade' × P.I. 117232. Bush, to 13 inches high; medium uniformity and vigor. Leaf medium, medium to dark green; 47 days to bloom. Flowers white. Medium set. Harvested August 16, 1966. Pod 10.5 by 1.1 cm., flat, straight, green. Seeds very plump oval, glassy brown to dark brown with much seed coat splitting; segregating, stringless, susceptible to root rot; slight susceptibility to anthracnose and bacterial blight races BV1 and BV2.

319872. Col. No. 62-471. G-11918. 'Wade' × P.I. 117232. Bush, to 15 inches high; uniformity vigorous. Leaf medium to large, medium to dark green; 47 days to bloom. Flowers white. Heavy set. Harvested August 16, 1966. Pod 12.7 by 1.1 cm., round, straight, green. Seeds plump oval, white with light to dark brown around hilum; segregating, stringless. Virus tolerant.

319873 to 319892. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From New Zealand. Tubers presented by the Crop Research Division, Christchurch. Received May 9, 1967.

Grown at the Crop Research Division Breeding Plots, Darfield, Canterbury.

319873. 166.02.	319883. 300.022.
319874. 188.0124.	319884. 320.09.
319875. 192.020.	319885. 320.027.
319876. 255.02.	319886. 323.06.
319877. 257.01.	319887. 323.012.
319878. 257.02.	319888. 323.013.
319879. 275.02.	319889. 323.038.
319880. 275.04.	319890. 323.050.
319881. 276.010.	319891. 323.052.
319882. 276.012.	319892. 325.013.

319893 to 319895. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received May 9, 1967.

- 319893.** 'Burwood Wonder'.
319894. 'Tatinter'.
319895. 'Victorian Dwarf No. 1'.

319896 to 319902. VICIA FABA L. Leguminosae. Broadbean.

From the Union of Soviet Socialist Republics. Seeds presented by the All-Union Institute of Plant Industry, Leningrad. Received May 9, 1967.

- 319896.** No. K-1469. Local type from Daghistan. Seed medium small, round, black.
319897. No. K-1586. 'Fioletovyy Czymowskich'. Polish origin. Seed small, pea size; black.
319898. No. K-1592. 'Hertz Fuya'. German origin. Seed medium size, brown.
319899. No. K-1617. 'Ausra'. Lithuanian origin. Seed medium small, brown. May be old seed or partially immature.
319900. No. K-1619. 'Khorostodskie'. From the Ukraine. Seed small, round.

319896 to 319902—Continued

319901. No. K-1820. 'Khmelnichkie'. From the Ukraine. Seed small, round, purplish black.
319902. No. K-1838. 'Prausmitzer Pferdebohne'. German origin. Seed medium small, olive brown.

319903 to 320033.

From Great Britain. Plants purchased from Sunningdale Nurseries, Windlesham, Surrey. Numbered May 9, 1967.

319903. RHODODENDRON LINEARIFOLIUM var. MACROSEPALUM (Maxim.) Makino Ericaceae.
319904. RHODODENDRON MUCRONATUM var. RIPENSE (Makino) Wils.
319905. RHODODENDRON PULCHRUM var. TEBOTAN (Katomsu) Rehd. ex Stevens
319906. RHODODENDRON YEDOENSE Maxim.
- 319907 and 319908. RHODODENDRON YEDOENSE var. POUKHANENSE Nakai
319907. No description.
319908. Pink.

319909 to 320033. RHODODENDRON (hybrid).

319909. 'Addy Wery'. Kurume clone; 'Flame' × 'Malvatica'.
319910. 'Agamujin'. Kurume clone.
319911. 'Aioi'. Kurume clone.
319912. 'Album'. Kurume clone; form of *R. obtusum*.
319913. 'Amoenum'. *R. ciliatum* × *R. dauricum*.
319914. 'Amoenum coccinea'. Branch sport of *R. obtusum* var. *R. amoenum*.
319915. 'Anny'. Kaempferi clone; *R. kaempferi* × 'Malvatica'.
319916. 'Ariake'. Wada clone; *R. kaempferi* × *R. simsii* var. *R. eriocarpum*.
319917. 'Asahiryn'. Kurume clone.
319918. 'Atalanta'. Kaempferi clone; *R. kaempferi* × 'Malvatica'.
319919. 'Aya-kammuri'. Kurume clone.
319920. 'Jukachi-ko'. Kurume clone.
319921. 'Ozora'. Kurume clone.
319922. 'Azuma-kagami'. Kurume clone.
319923. 'Balsamineaeflora'. *Macrantha* clone.
319924. 'Banzai'. Kurume clone.
319925. 'Benegiri'. Kurume clone.
319926. 'Bengal Fire'. Oldhami clone; *R. kaempferi* × 'Oldhami'.
319927. 'Benifude'. Kurume clone.
319928. 'Bijinsui'. Kurume clone.
319929. 'Bulstrode'. *Mucronatum* clone.
319930. 'Bungo-nishiki'. Wada clone; *R. indicum* × *R. kaempferi*.
319931. 'Caldwellii'. *Amoenum* clone; *R. obtusum* var. *R. amoenum* × 'Magnifica'.
319932. 'Carminata Splendens'. *Amoenum* clone.

319903 to 320033—Continued

319909 to 320033—Continued

319933. 'Cheniston'. Amoenum clone.
319934. 'Chichibu'. Wada clone.
319935. 'Chiyo No Akebono'. Kurume clone.
319936. 'Crispiflora'. Macrantha clone.
319937. 'Crispiflora Kokinahita'. Macrantha clone.
319938. 'Crispiflora Mauve'. Macrantha clone.
319939. 'Crispiflora Orange'. Macrantha clone.
319940. 'Crispiflora Pink'. Macrantha clone.
319941. 'Crispiflora Pink Beauty'. Macrantha clone.
319942. 'Eddy'. Oldhami clone; *R. kaempferi* × *R. oldhamii*.
319943. 'Fude-tsuka'. Kurume clone.
319944. 'Fude-tsukasa'. Kurume clone.
319945. 'Gosho zakura'. Kurume clone.
319946. 'Greeting'. Glenn Dale clone.
319947. 'Gumpo'. Satsuki clone; *R. indicum* var. *R. eriocarpum*.
319948. 'Had-ho-sato'. Kurume clone.
319949. 'Hana-asobi'. Kurume clone.
319950. 'Harumiji'. Kurume clone.
319951. 'Haru-no-akegono'. Kurume clone.
319952. 'Haru-no-kyokii'. Kurume clone.
319953. 'Hatsugiri'. Kurume clone.
319954. 'Heiwa'. Satsuki clone.
319955. 'Hikkasen'. Kurume clone.
319956. 'Hinodegiri'. Kurume clone.
319957. 'Hinode-no-taka'. Kurume clone.
319958. 'Hinomayo'. Kurume clone.
319959. 'Hino-tsukasa'. Satsuki clone; *R. indicum* × Kurume.
319960. 'Hoo'. Kurume clone.
319961. 'Ilten'. (Maihime). Kurume clone.
319962. 'Ima-shojo'. Kurume clone.
319963. 'Ima-zuma'. Kurume clone.
319964. 'Isochidari'. Wada grex; *R. kaempferi* + *R. simsii* var. *R. eriocarpum*.
319965. 'Ivette'. Kaempferi clone.
319966. 'Iwato-kagami'. Kurume clone.
319967. 'Izumigawa'. Kurume clone.
319968. 'Jeanette'. Kaempferi clone.
319969. 'John Cairns'. Kaempferi clone.
319970. 'Juliana'. Kaempferi clone.
319971. 'Kasumi-gaseki'. Kurume clone.
319972. 'Kathleen'. Kaempferi clone.

319903 to 320033—Continued

319909 to 320033—Continued

319973. 'Katsura-no-Hana'. Kurume clone.
 319974. 'Keinohana'. Kurume clone.
 319975. 'Kimigayo'. Kurume clone.
 319976. 'Kirin'. Kurume clone.
 319977. 'Kiusianum'. Kurume clone.
 319978. 'Kiusianum No. 1'. Kurume clone.
 319979. 'Kiusianum No. 2'. Kurume clone.
 319980. 'Kiusianum No. 12'. Kurume clone.
 319981. 'Kiusianum Mauve'. Kurume clone.
 319982. 'Kogasane'. Kurume clone.
 319983. 'Kokinran'. Kurume clone.
 319984. 'Koran-yuki'. Kurume clone.
 319985. 'Kumoidori'. Kurume clone.
 319986. 'La France'. Amoenum clone.
 319987. 'Leo'. *R. kaempferi* × *R. oldhamii*.
 319988. 'Louise'. Exbury clone.
 319989. 'Louise Gable'. Gable clone; *R. indicum* × (*R. kaempferi* × *R. poukhanense*).
 319990. 'Machojakiu'. Kurume clone.
 319991. 'Mackrojaka'. Kurume clone.
 319992. 'Mikado'. Kaempferi form.
 319993. 'Naomi'. Oldhami clone; *R. kaempferi* × *R. oldhamii*.
 319994. 'Noordtiana'. Mucronatum clone.
 319995. 'Oberon'. Kaempferi clone.
 319996. 'Orange Beauty'.
 319997. 'Otome'. Kurume clone.
 319998. 'Ouchiyama'. Kurume clone.
 319999. 'Palestrina'. Vuykiana clone; 'J. C. van Tol' × *R. kaempferi*.
 320000. 'Pink Treasure'. Kaempferi clone.
 320001. 'Pippa'. Oldhami clone; *R. kaempferi* × *R. oldhamii*.
 320002. 'P. W. Hardyzer'. Vuykiana clone.
 320003. 'Queen Wilhelmina'. Vuykiana clone.
 320004. 'Rankyoken'. Kurume clone.
 320005. 'Rasho-mon'. Kurume clone.
 320006. 'Robin Hood'. Grex; *R. calophytum* × *R. sutchuenense*.
 320007. 'Rosebud'. Gable clone.
 320008. 'Schubert'. Vuykiana clone; *Kaempferi* hybrid × 'J. C. van Tol'.
 320009. 'Senju'. Kurume clone.
 320010. 'Senka'. Kurume clone.
 320011. 'Shikishima'. Kurume clone.
 320012. 'Shinimiagagino'. Kurume clone.

319903 to 320033—Continued**319909 to 320033—Continued**

320013. 'Shinsagino Kagasane'. Kurume clone.
 320014. 'Shin-seikai'. Kurume clone.
 320015. 'Shintoki-no-hagasane'. Kurume clone.
 320016. 'Shino Nome'. Kurume clone.
 320017. 'Shin-utena'. Kurume clone.
 320018. 'Soroi'.
 320019. 'Souvenir'. Glenn Dale clone; *R. indicum* × 'Momozono'.
 320020. 'Sui-yohi'. Kurume clone.
 320021. 'Susugonoito'. Kurume clone.
 320022. 'Tonkonatsu'. Kurume clone.
 320023. 'Toun'. Kurume clone.
 320024. 'Ukamuse'. Kurume clone.
 320025. 'Usugukarii'. Kurume clone.
 320026. 'Verdi'. Indian clone.
 320027. 'Willy'. Kaempferi clone.
 320028. 'Yachiyo'. Wada clone; *R. indicum* var. *R. eriocarpum* × *R. kaempferi*.
 320029. 'Yezo-nishiki'. Kurume clone.
 320030. 'Yoro'. Kurume clone.
 320031. 'Yoshi-mi-gatake'. Kurume clone.
 320032. 'Yo-zakura'. Satsuki clone.
 320033. 'Yugiri'. Satsuki clone.

320034. ARMORACIA LAPATHIFOLIA Gilib. Cruciferae.**Horseradish.**

From Czechoslovakia. Roots presented by the Research Institute for Plant Production, Praha 6, Ruzyně. Received May 9, 1967.

'Spreewald'.

320035 to 320044. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Iceland. Tubers presented by Einar F. Liggeirnur, Stangerholt 30, Reyhjavik. Received May 9, 1967.

Frost resistant selections.

320035. EIS-3. 'Evindur' × 'Olafsrandur'.
 320036. EIS-3-62B. 'Olafsrandur' × Russ. Sel. 62.
 320037. EIS-12. Russ. Sel. 62 × Red Isl.
 320038. EIS-20. Russ. Sel. × 'Olafsrandur IV'.
 320039. EIS-40. 'Olafsrandur' × Russ. Sel.
 320040. EIS-100. 'Olafsrandur' × 'Evindur'.
 320041. EIS-Ham. 'Eyvindur' × ?
 320042. EIS-Russ. 'Olafsrandur' × 'Ham'.
 320043. EIS-H-30 (Haploid?). Selection of EIS-H-34.
 320044. EIS-H-34 (Haploid?). 'Ham' × EIS-40.

320045 to 320050.

From Kenya. Seeds presented by the National Agricultural Research Station, Kitale. Numbered May 10, 1967.

320045. CHLORIS GAYANA Kunth Gramineae. **Rhodesgrass.**
K. 53728. Usenge.

320046. MELINIS MINUTIFLORA Beauv. Gramineae. **Molassesgrass.**
K. 5425. Mboomi hills.

320047. PANICUM MAXIMUM Jacq. Gramineae. **Guineagrass.**
K. 6237. 'Embu Creeping'.

320048 and 320049. PUERARIA MONTANA (Lour.) Merr. Leguminosae.

320048. K. 51393. Small seed; flowers uniformly violet colored.

320049. K. 51394. Eldoret. Seed larger than P.I. 320048. Flowers predominately violet colored varying to slightly bluish; standards often with greyish-violet spot.

320050. TRIFOLIUM SEMIPILOSUM Fresen. Leguminosae. **Kenya clover.**
K. 5154. Kabete.

320051. SOLANUM TUBEROSUM L. Solanaceae. **Potato.**

From Iceland. Tubers presented by Einar F. Liggeirnur, Stangerholt 30, Reyhjavik. Received May 9, 1967.

EIS-Ant. Parents are B-4557-2 × Antenema (a German variety). Resistant to golden nematodes under Icelandic conditions.

320052. CUCUMIS ANGURIA L. Cucurbitaceae. **West Indian gherkin.**

From the United States. Seeds held at the Regional Plant Introduction Station, Geneva, N. Y. Numbered May 10, 1967.

Annual; vine; 160 inches high by 36 inches wide. Flowers yellow. Fruit light green turning bright yellow when mature. Fruits ovate, 2½ by 1¾ inches, spiny with recurved small spines at apex of larger spine.

320053. BALLYA ZEBRINA (Chiov.) Brenan Commelinaceae.

From Republic of South Africa. Seeds collected by E. C. Smith, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered May 10, 1967.

Col. No. 4752. Tongoland, Natal. Mar. 1967.

320054 to 320059.

From Pakistan. Seeds presented by Rafiq Ahmad, Assistant Groundnut Botanist, Rawalpindi. Numbered May 10, 1967.

320054 to 320058. ARACHIS HYPOGAEA L. Leguminosae.

320054. A 1-2. Erect.

320055. B-4. Erect.

320056. S.S. 18-1. Semispreading.

320057. No. 45. Spreading.

320058. No. 334. Spreading.

320059. ARACHIS HYPOGAEA f. NAMBYQUARAE (Hoehne) F. J. Herm.
HR.

320060. FRAGARIA (hybrid). Rosaceae.

From Germany. Plants presented by Sengana GmbH. & Company, Hamburg-Volksdorf. Received May 10, 1967.

'Markee'.

320061 to 320076. ZEA MAYS L. Gramineae. Corn.

From Brazil. Seeds presented by the Department de Fitotecnia, Universidade Rural do Brazil, Rio de Janeiro. Received May 10, 1967.

Seed lots represent genetic stocks containing genes for resistance to *Puccinia sorghi* in Brazil.

320061. 11/67.	320069. 127/67.
320062. 40/67.	320070. 139/67.
320063. 85/67.	320071. 143/67.
320064. 86/67.	320072. 156/67.
320065. 93/67.	320073. 162/67.
320066. 105/67.	320074. 222/59-la.
320067. 107/67.	320075. 669/62-3c.
320068. 126/67.	320076. 709/59-la.

320077 and 320078.

From Poland. Plants and cuttings presented by Research Institute of Pomology, Skierniewice. Received May 11, 1967.

320077. BUXUS SEMPERVIRENS L. Buxaceae. Common box. (Cuttings)	
320078. ZIZYPHUS JUJUBA Mill. Rhamnaceae. 'Ta-yan-tsao'. (Plants)	Jujube.

320079 to 320081.

From Thailand. Budsticks presented by Veerapol Niyomthai, Kasetsart University, Bangkok. Received May 11, 1967.

320079. CITRUS MEDICA L. Rutaceae.	Citron.
320080. CITRUS sp. 'Tee-jian'.	
320081. CITRUS sp. 'Som-keo-wan'.	

320082. VERNONIA sp. Compositae.

From Kenya. Seeds collected by C. E. Smith, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received May 15, 1967.

Col. No. 4678. Near Currey's Post north of Pietermaritzburg. To 4 meters high. Fair seed retention.

320083 to 320096.

From Ethiopia. Seeds collected December 1966 by C. E. Smith, Jr., New Crops Research Branch, Plant Industry Station, Beltsville, Maryland. Received May 15, 1967.

320083 to 320088. VERNONIA ABYSSINICA Sch. Bip. Compositae.	Ironweed.
320083. Col. No. 4531. Eritrea, village of Scichity, on road to Adiugri. Elevation 7,700 feet.	
320084. Col. No. 4532. Ah Deboroa, 32 km. from Asmara.	
320085. Col. No. 4536. Nefasit, 20 km. below Asmara on Massaua road. Elevation 6,000 feet.	
320086. Col. No. 4544. Nine km. from Asmara on Decamere road.	
320087. Col. No. 4545. Fifteen km. from Asmara on Decamere road. Elevation 7,200 feet.	

320083 to 320096—Continued**320083 to 320088—Continued**

320088. Col. No. 4552. Donated by Atto Debresiene. Collected near Asmara.

320089. VERNONIA sp.

Col. No. 4558. Ten km. from Jimma along Bonga road. Elevation 5,200 feet.

320090. VERNONIA sp.

Col. No. 4559. Near Borie close to Beleta Forest on Bonga road.

320091. VERNONIA sp.

Col. No. 4560. Near Agaro.

320092. VERNONIA sp.

Col. No. 4561. Near Asendabo about 280 km. from Addis.

320093. VERNONIA sp.

Col. No. 4563. Ghibie Valley, on Addis-Jimma road at Kilometer 178. Elevation 4,200 feet.

320094. VERNONIA sp.

Col. No. 4564. Abaro area, 10 km. from Sheshemene.

320095. VERNONIA sp.

Col. No. 4565. Abaro area, 12 km. from Sheshemene. Elevation 5,000 feet.

320096. VERNONIA sp.

Col. No. 4566. On Sheshemene road, 160 km. from Addis. Elevation 5,400 feet.

320097 to 320111. TRITICUM AESTIVUM L. Gramineae.

From Kenya. Seeds presented by the Plant Breeding Station, Njoro, through N. F. Jensen, Cornell University, Ithaca, N. Y. Numbered May 18, 1967.

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|---------------------------|-------------------------------|
| 320097. 'Barrigon Bagio'. | 320105. 'P. Waiker Munro'. |
| 320098. 'Chile 1.B.'. | 320106. RFN. |
| 320099. 'Goblet'. | 320107. 'Rushmore × Supresa'. |
| 320100. 'Lahota'. | 320108. 'Santa Elena'. |
| 320101. 'La Prevision'. | 320109. 'Sonora 64 A'. |
| 320102. 'Mexico 120'. | 320110. 'Toluka 50'. |
| 320103. 'Nadadores'. | 320111. II-8582. |
| 320104. 'Pitcher'. | |

320112 to 320128. TRITICUM AESTIVUM L. Gramineae.

From Ethiopia. Seeds collected in 1964 by E. L. Smith, United States Agency for International Development, Debra Zeit. Increased 1965 at Mesa, Arizona. Numbered May 18, 1967.

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|----------------|-----------------|
| 320112. ELS-1. | 320119. ELS-8. |
| 320113. ELS-2. | 320120. ELS-9. |
| 320114. ELS-3. | 320121. ELS-10. |
| 320115. ELS-4. | 320122. ELS-11. |
| 320116. ELS-5. | 320123. ELS-12. |
| 320117. ELS-6. | 320124. ELS-13. |
| 320118. ELS-7. | 320125. ELS-14. |

320112 to 320128—Continued

320126. ELS-15.

320128. ELS-17.

320127. ELS-16.

320129 to 320145. TRITICUM AESTIVUM L. Gramineae.

From Portugal. Seeds received through the Dekalb Agricultural Association, Inc., Dekalb, Illinois. True origin unknown. Increased 1966 at Mesa, Arizona. Numbered May 18, 1967.

320129. WS-5.

320138. WS-24.

320130. WS-6.

320139. WS-30.

320131. WS-9.

320140. WS-32.

320132. WS-12.

320141. WS-33.

320133. WS-13.

320142. WS-34.

320134. WS-14.

320143. WS-36.

320135. WS-16.

320144. WS-38.

320136. WS-20.

320145. WS-39.

320137. WS-23.

320146 to 320153.

From Zambia. Seeds collected by C. E. Smith, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered May 18, 1967.

320146. *VERNONIA ARMERIOIDES* O. Hoffm. Compositae.

Col. No. 4661. Near Kitwe.

320147. *VERNONIA SHIRENSIS* Oliver & Hiern

Col. No. 4674. Livingstone.

320148. *VERNONIA* sp.

Col. No. 4660. Kitwe.

320149. *VERNONIA* sp.

Col. No. 4665. Kitwe.

320150. *VERNONIA* sp.Col. No. 4666. Near Albercorn in *Brachystegia* woodland.320151. *VERNONIA* sp.

Col. No. 4667. Albercorn.

320152. *VERNONIA* sp.

Col. No. 4672. Near Albercorn.

320153. *VERNONIA* sp.

Col. No. 4673. Near Albercorn.

320154. PENNISETUM TYPHOIDES (Burm. f.) Stapf & C. E. Hubbard Gramineae.

From the Republic of South Africa. Seeds presented by Pioneer Seed Company, Greytown, Natal. Numbered May 18, 1967.

Selection widely grown for silage in Natal.

320155 to 320183. LINUM USITATISSIMUM L. Linaceae.**Common flax.**

From the Netherlands. Seeds presented by Stichting Voor Plantenveredeling, 166 Lawickse Allee, Wageningen. Numbered May 18, 1967.

320155 to 320183—Continued

320155. No. 1.	320170. No. 16.
320156. No. 2.	320171. No. 17.
320157. No. 3.	320172. No. 18.
320158. No. 4.	320173. No. 19.
320159. No. 5.	320174. No. 20.
320160. No. 6.	320175. No. 21.
320161. No. 7.	320176. No. 22.
320162. No. 8.	320177. No. 23.
320163. No. 9.	320178. No. 24.
320164. No. 10.	320179. No. 25.
320165. No. 11.	320180. No. 26.
320166. No. 12.	320181. No. 27.
320167. No. 13.	320182. No. 28.
320168. No. 14.	320183. No. 29.
320169. No. 15.	

320184. TRITICUM AESTIVUM L. Gramineae.

From Yugoslavia. Seeds presented by Clyde Keaton, Agricultural Attache, American Embassy, Belgrade. Numbered May 19, 1967.

'Hybrid 013'. Cross and selection made by A. Djokic, Faculty of Agriculture, Belgrade-Zemun. Homozygous line No. 28/17 selected in F₄ generation from 'Bulgaria No. 958' × 'Etoile de Choisy'.

320185 to 320188. TRITICUM AESTIVUM L. Gramineae.

From Italy. Seeds presented by Istituto di Allevamento Vegetale per la Cerealicoltura, Via di Corticella 133, Bologna. Numbered May 19, 1967.

320185. I. Bo. 295v.	320187. I. Bo. 643/468.
320186. I. Bo. 468w.	320188. I. Bo. 2294/488.

320189 to 320195. TRITICUM AESTIVUM L. Gramineae.

From Turkey. Seeds presented by the Director, Plant Breeding Station, Eskisehir, through K. L. Lebsock, North Dakota State University, Fargo, North Dakota. Numbered May 19, 1967.

320189. No. 101. 253/39. Akbasak. Ankara.
320190. No. 185-1. Fata selection. Eskisehir.
320191. No. 255. 414/44. Ankara.
320192. No. 1018. Capraz bugday. Manisa.
320193. No. 1149. Ziraat Kakultesi 5084. Kenya.
320194. No. 1718. Kose Melez.
320195. No. 1726. Kileikli kizilca.

320196. HORDEUM BULBOSUM L. Gramineae. Bulbous barley.

From Israel. Seeds presented by D. Zohary, Department of Botany, Hebrew University, Jerusalem. Numbered May 19, 1967.

Originally collected 1963 approximately 15 km. southwest of Jerusalem. Local tetraploid $2n=28$.

320197. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.

From Spain. Roots and cuttings presented by Rafael Rivas Guidet, Nerja, Malaga. Numbered May 29, 1967.

'Finas'. "Commercial variety used for candying. Virus infected when received."

320198. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From Canary Islands. Seeds presented by Agricultural Attache, Embassy of Spain, Washington, D. C. Numbered May 29, 1967.

'Especial'. Long life cycle; resistant to salt in irrigation water.

320199 to 320203. HORDEUM VULGARE L. Gramineae. Barley.

From Ethiopia. Seeds collected by E. L. Smith, United States Agency for International Development, Debre Zeit. Numbered May 19, 1967.

Collected in Addis Ababa Market. 1965.

320199. 3362-A. Covered seed, white.

320200. 3362-B. Covered seed, gray.

320201. 3362-C. Naked, white.

320202. 3362-D. Naked, blue.

320203. 3362-E. Covered seed, purplish gray glumes.

320204 to 320208. AVENA SATIVA L. Gramineae. Common oats.

From Ethiopia. Seeds collected in 1964 by E. L. Smith, United States Agency for International Development, Debre Zeit. Numbered May 19, 1967.

320204. No. 1.

320207. No. 4.

320205. No. 2.

320208. No. 5. Black seed.

320206. No. 3.

320209 to 320243. HORDEUM VULGARE L. Gramineae. Barley.

From Australia. Seeds presented by the Department of Agriculture, Perth, Western Australia, through P. B. Price, South Dakota State University, Brookings, South Dakota. Numbered May 19, 1967.

320209. 'Anabee'.

320224. C.P.I. 28385.

320210. 'Athenias'. P 8568.

320225. C.P.I. 28386.

320211. 'Boreham Warrior'.

320226. C.P.I. 28387.

320212. C.P.I. 11081.

320227. 'Early Challenger'.

320213. C.P.I. 28360.

320228. 'Maris Baldric'.

320214. C.P.I. 28361.

320229. 'Kihai Hadaka'.

320215. C.P.I. 28362.

320230. M. 92.

320216. C.P.I. 28363.

320231. M. 96.

320217. C.P.I. 28364.

320232. M. 99.

320218. C.P.I. 28367.

320233. M. 103.

320219. C.P.I. 28369.

320234. 'Mesterhazi 210'.

320220. C.P.I. 28378.

320235. 'Nizzanit'.

320221. C.P.I. 28379.

320236. 'Noyep'.

320222. C.P.I. 28383.

320237. N.P. 103.

320223. C.P.I. 28384.

320238. N.P. 104.

320209 to 320243—Continued

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|-----------------------|----------------------------------|
| 320239. 'Orge Saida'. | 320242. 'Resibee'. |
| 320240. 'Perbetei'. | 320243. Selection BSS-22. Cyprus |
| 320241. 'Prior'. | |

320244 to 320249.

From India. Seeds originally collected 112 miles southeast of Poona in 1964 by P. F. Knowles, University of California, Davis, California and held by Cereal Crops Research Branch, Plant Industry Station, Beltsville, Maryland. Numbered May 19, 1967.

Component samples originating from P.I. 307167.

320244. TRITICUM sp. Gramineae.

No. 1. White grains.

320245. TRITICUM sp.

No. 2. White grains.

320246. TRITICUM sp.

No. 3. White grains.

320247. TRITICUM sp.

No. 4. Red grains.

320248. TRITICUM sp.

No. 5. Red grains.

320249. TRITICUM sp.

No. 6. Red grains.

320250 to 320256. TRITICUM (hybrid). Gramineae.

From Spain. Seeds presented by J. R. Lacadena, Estacion Experimental de Aula Dei, Zaragoza. Numbered May 22, 1967.

320250. Triticale. C.I. 13398 (wheat) × 'Gator' (rye).

320251. Triticale. 'Stewart' (wheat) × 'Gator' (rye).

320252. *T. dicoccum* × *T. timopheevi*.

320253. *T. persicum* × *T. dicoccum*.

320254. *T. persicum* × *T. monococcum*.

320255. W63-64-401-2.

320256. W63-64-401-3.

320257. SOLANUM BERTHAULTII Hawkes Solanaceae.

From Bolivia. Seed collected by G. E. Easton, Irrigation Experiment Station, Washington State University, Prosser, Washington. Numbered May 22, 1967.

Col. No. Alan 5. Original seed lot obtained in 1961 from Segundo Alandia, Servicio Agrícola Interamericano, Division de Investigaciones, La Paz. Received March 1964.

320258 to 320264.

From Peru. Seeds collected by J. G. Hawkes, Department of Botany, University of Birmingham, England. Received May 1965. Numbered May 22, 1967.

320258. SOLANUM JALCAE Ochoa Solanaceae.

Hawkes No. 2417.

320258 to 320264—Continued

320259. *SOLANUM MARINASENSE* Vargas

Hawkes No. 2474.

320260 and 320261. *SOLANUM MEDIANS* Bitt.

320260. Hawkes No. 2464.

320261. Hawkes No. 2489.

320262. *SOLANUM RAPHANIFOLIUM* Cardenas & Hawkes

Hawkes No. 2471b.

320263 and 320264. *SOLANUM SPARSIPILUM* (Bitter) Juz. & Buk.

320263. Hawkes No. 2479.

320264. Hawkes No. 2480.

320265. *SOLANUM BRACHISTOTRICHUM* (Bitter) Rydb. Solanaceae.

From Mexico. Seeds received December 1965 from J. G. Hawkes, Department of Botany, University of Birmingham, England. Numbered May 22, 1967.

Hawkes No. 1234. (H. 278). Chihuahua State, Majalca, 40 miles northwest of Chihuahua. Aug. 14, 1958. Altitude 2,150 meters. Dry rocky hillsides, partial shade of *Juniperus monosperma* and *Pinus cembroides*. Flowers and mother tubers. $2n=24$.

320266 to 320268.

From Uruguay. Seeds received December 1965 from J. G. Hawkes, Department of Botany, University of Birmingham, England. Numbered May 23, 1967.

320266 and 320267. *SOLANUM COMMERSONII* Dunal ex Poir. Solanaceae.

320266. Hawkes No. 702. (H. 180). Dept. San Jose, near Rio Santa Lucia and Puente La Barra, pajonal. Autodromo Nacional, 21.5 kilometers from Montevideo. March 20, 1958. Altitude sea level. Amongst coarse grass and other herbage in damp sandy places. Flowers purple outside. Mother tubers; no berries.

320267. Hawkes No. 706. (H. 183). Dept. Colonia, La Estanzuela, just outside the plant breeding station. March 23, 1958. Altitude 50 meters. Rough grass on edge of maize field by stream. Tussocks of *Paspalum quadrifarium*. Flowers, berries, and tubers.

320268. *SOLANUM COMMERSONII* f. *MALMEANUM* (Britt.) Corr.

Hawkes No. 725. (H. 196). Dept. Salta, San Antonio, Escuela Experimental de Agronomia. April 16, 1958. Collectors: J. A. Reyes, and Comm. A. Montoro Guarchi. In dark brown, humus-rich soil. Flowers white.

320269. *SOLANUM COMMERSONII* f. *MALMEANUM* (Bitt.) Corr. Solanaceae.

From Brazil. Seeds received December 1965 from J. G. Hawkes, Department of Botany, University of Birmingham, England. Numbered May 23, 1967.

(H. 569). Dept. Rio Grande do Sul, Ijuí. Seed collected July 23, 1959. Mota da Coata (s.n.). Flowering abundant, fruiting good.

320270. *SOLANUM FERNANDEZIANUM* Phil. Solanaceae.

From Chile. Seeds received December 1965 from J. G. Hawkes, Department of Botany, University of Birmingham, England. Numbered May 23, 1967.

320270—Continued

(H. 170). Collected in 1956 by Professor Skottsberg (s.n.) in the Isles of Juan Fernandez. Seeds received September 2, 1957, from plants grown in Stockholm Garden.

320271. SOLANUM KURTZIANUM Bitter & Wittm. ex Engl. Solanaceae.

From Argentina. Seeds received December 1965 from J. G. Hawkes, Department of Botany, University of Birmingham, England. Numbered May 23, 1967.

(H. 613). Province Catamarca, Dept. Santa Rosa. Alijilan (latitude 28°10'S., longitude 65°30'W.). Casa del Dique. Collector Ing. Agr. Juan O. Reche (s.n.). April 1960. Very abundant. Seeds received 1961, via J. P. Hjerting.

320272 to 320339.

From Argentina. Seeds received from J. G. Hawkes, Department of Botany, University of Birmingham, England, September 1966. Collected by J. G. Hawkes, J. P. Hjerting, and K. Rahn from December 1965 to April 1966. Numbered May 23, 1967.

320272 to 320278. SOLANUM ACAULE Bitter. Solanaceae.

320272. Hawkes No. 2482. Province Tucuman, Dept. Tafi, near infiernillo, Quebrada Honda, 83 kilometers on road from Tafi del Valle to Cafayate, above La Casita. Altitude 3,000–3,270 meters. Feb. 15, 1966. Growing in short grass. No flowers. Flat rosettes; berries.

320273. Hawkes No. 3717. Province Salta, Dept. Chicoana, road from Escoipe to Cachi, 15 kilometers above Escoipe, Cuesta del Obispo. Altitude 2,950 meters. Mar. 5, 1966. In very short grazed grassland, in a damp flush.

320274. Hawkes No. 3740. Province Salta, Dept. Chicoana, road from Escoipe to Cachi, Cuesta del Obispo, 21.4 kilometers above Escoipe. Altitude 3,200 meters. Mar. 6, 1966. In grass by roadside.

320275. Hawkes No. 3813. Province Jujuy, Dept. Yavi, Rincon de Cajas to Santa Victoria road, 2.8 kilometers above Rincon de Cajas. Altitude 4,125 meters. Mar. 12, 1966. In and around a stone corral; very rich soil. Flowers blue-violet, no visible articulation.

320276. Hawkes No. 3814. Province Salta, Dept. Santa Victoria, road from Yavi to Santa Victoria at 5.2 kilometers east of Abra de Lizoite, bottom of a valley. Altitude 4,400 meters. Mar. 12, 1966. In stones by road and amongst short grass. Flat rosettes; also in a corral. Some plants with enlarged terminal leaflets on older leaves; berries yellow when ripe.

320277. Hawkes No. 3872. Province Salta, Dept. Santa Victoria, above Rodeopampa, 13 kilometers from Santa Victoria on road to La Quiaca. Altitude 3,200 meters. Mar. 15, 1966. By roadside and on road itself. Berries. Puna formation.

320278. Hawkes No. 3904. Province Jujuy, Dept. Humahuaca, between Iturbe and Tres Cruces, at 1,316 kilometers on railway. Altitude 3,580 meters. Mar. 16, 1966. Edge of irrigation channel; between railway line and river. Abundant by channel; many fruits.

320279 and 320280. SOLANUM ACUALE var. **AEMULANS** (Britt. & Wittm.) Corr.

320279. Hawkes No. 3396. Province La Rioja, Dept. Famatina, just above La Encrucijada, in a small valley. Altitude 3,250 to 3,300 meters. Feb. 5, 1966. Dry shaly slopes under protection of *Adesmia*, *Senecio*, etc. Some plants with fruits.

320272 to 320339—Continued

320279 and 320280—Continued

320280. Hawkes No. 3407. Province La Rioja, Dept. Famatina, Sierra Famatina, valley of Rio Amarillo above La Encrucijada. Altitude 3,250 to 3,350 meters. Feb. 5, 1966. Dry stony and sandy hillsides; occasionally on flat ground where cattle have stood.

320281 to 320294. SOLANUM CHACOENSE Bitter

320281. Hawkes No. 3158. Province San Luis, Dept. La Capital, road from San Luis to Trapiche, Quebrada de Los Condores, in a side valley on west side of road. Altitude 850 meters. Jan. 7, 1966. On south facing slope in partial shade of trees in pockets of rich soil among stones.

320282. Hawkes No. 3164. Province San Luis, Dept. La Capital, road from San Luis to Trapiche, above El Dique, 22 kilometers from San Luis in northeast direction. Altitude 900 meters. Jan. 7, 1966. Weed of maize field, rare. Flowers stellate, white. Three or 4 plants in corner of field.

320283. Hawkes No. 3194. Province San Luis, Dept. Chacabuco, road from Villa del Carmen to Merlo, one kilometer along a side road to west, to Estanzuela. Altitude 900 meters. Jan. 9, 1966. In tussocks of *Cortaderia* and other grasses in a palm grove by stream. Apparently natural vegetation. Plants to 50 centimeters, with buds and berries.

320284. Hawkes No. 3196. Province San Luis, Dept. Chacabuco, between Larca and Merlo, 3.8 kilometers south of San Miquel, east of Balcarce. Altitude 1,000 meters. January 9, 1966. By side of road among grass and herbs, and in bushy places behind and among shrubs and trees; also, as a weed in cultivated field. Flowers white, varying from stellate to rotate-pentagonal.

320285. Hawkes No. 3198. Province Cordoba, Dept. San Javier, 7 kilometers from Route 148, 4.3 kilometers east of La Paz. Altitude 650 meters. Jan. 10, 1966. In half-monte, half-chaco scrub, probably Espinal; with *Prosopis*, *Larrea*, *Schinus*, *quebracho*, etc., under shade of trees and shrubs in rich soil, apparently forming part of natural vegetation.

320286. Hawkes No. 3297. Province Cordoba, Dept. Punilla, near Capilla del Monte, Sierra Chica, path up Cerro Uritorco. Altitude 1,100 meters. Jan. 23, 1966. Flowers white, stellate.

320287. Hawkes No. 3305. Province Cordoba, Dept. Punilla, road from La Falda to Cosquin, 13 kilometers north of Cosquin, Valle Hermoso. Altitude 850 meters. Jan. 24, 1966. In a maize field and among grass just outside. Tall plants to 1 meter in maize field. Flowers substellate to pentagonal.

320288. Hawkes No. 3327. Province Cordoba, Dept. Cruz del Eje, road from Tanti to Salsacate, Rio Guasta, Sierra Grande. Altitude 1,700 meters. Jan. 24, 1966. In field border near river; much eaten by beetles.

320289. Hawkes No. 3432. Province Tucuman, Dept. Tafi, road from Tapia to Siambon, Raco, about 24 km., "Huerta La Raquefia". Altitude 1,150 meters. Feb. 12, 1966. Weed of field and by hedge. Some plants to 80 centimeters; no rosettes; other short and rosetted. Stem wings crisped. Calyx glabrous. Berries few, globular, green.

320290. Hawkes No. 3629. Province Salta, Dept. Guachipas, Route 9 from Ruiz de Los Llanos to Pampa Grande at 41.6 kilometers. Altitude 1,100 meters. Mar. 2, 1966. By side of road. Very large plant, 1 meter tall; dark green leaf. One berry, more or less oval.

320272 to 320339—Continued

320281 to 320294—Continued

320291. Hawkes No. 3633. Province Salta, Dept. Guachipas, Route 9 from Ruiz de Los Llanos to Pampa Grande at 69.5 kilometers. Altitude 1,650 meters. On roadside bank. Plants to 10 cm. tall; no rosettes; stem wings broad; calyx pubescent; flowers white, stellate. No style setae.
320292. Hawkes No. 3700. Province Salta, Dept. Chicoana, 28.8 kilometers from Carril and 4 kilometers above Mal Paso. Altitude 1,700 m. Mar. 5, 1966. Growing on roadside with *S. microdontum* ssp. *gigantophyllum* (Hawkes No. 3699). Two sets of berries, A and B.
320293. Hawkes No. 3706. Province Salta, Dept. Chicoana, road from Carril to Cuesta del Obispo, Pie de la Cuesta, 7.1 kilometers above Escoipe. Altitude 2,400 meters. Mar. 5, 1966. Among scrub, *Adesmia*, etc. Some glands; warty spots on some berries.
320294. Hawkes No. 4039. Province Buenos Aires, Castelar, Centro Nacional de Investigaciones Agropecuarias de I.N.T.A. Altitude about 20 meters. Dec. 9, 1965. In a fallow field, abundant colony of plants in flower. No tubers.

320295. SOLANUM INFUNDIBULIFORME Phil.

Hawkes No. 3906. Province Jujuy, Dept. Humahuaca, between Iturbe and Tres Cruces, by railway at 1,313.5 kilometers. Altitude 3,550 meters. Mar. 16, 1966. Dry shaly banks above railway. No flowers. Mature berries frequent; berries purplish brown with whitish spots.

320296 and 320297. SOLANUM KURTZIANUM Bitter & Wittm. ex Engl.

320296. Hawkes No. 4003. Province La Rioja, Dept. Chilecito, 23 kilometers from Chilecito on road to Guanchin Viejo. Finca of Domingo Rivero. Altitude 1,800 meters. Mar. 26, 1966. Field between ditch and road.
320297. Hawkes No. 4006. Province La Rioja, Dept. Chilecito, Guanchin Viejo, Finca of Horacio Alcayaga. Altitude 1,800 meters. Mar. 26, 1966. Same place from where *S. spegazzinii* × *S. kurtzianum* (P.I. 320335) was collected, but berries taken from plants in shade of trees.

320298 to 320301. SOLANUM LEPTOPHYES Bitter

320298. Hawkes No. 3425. Province La Rioja, Dept. Famatina, Sierra Famatina, path from Los Corrales to La Encrucijada, Los Caracoles. Altitude 2,650 meters. Feb. 5, 1966. Dry stony banks by side of path in full sun. Plants varying in size. Flowers white to pale purple, probably according to dryness of soil.
320299. Hawkes No. 3518. Province Catamarca, Dept. Andalgalá, Route 63, between Santa María and Andalgalá, Ingenio Arenala. Altitude 2,800 meters. Feb. 17, 1966. In streambed in sand (dry) under *Baccharis* and *Salix babylonica* and also in fully sun. Plants from 5 to 70 centimeters according to position, hairs various; flowers almost white in sun plants, purple with darker central streak in shade plants; stunted plants *spg* type, other *fmt* type. Fruits white spotted and warty in most plants, intermediate-sized ones with fine puberulence (= *S. puberulo-fructum*), but some not; never when young or nearly mature.
320300. Hawkes No. 3524. Province Catamarca, Dept. Belén, road from Puerta de Belén (San José) to Pozo de Piedra, 15.5 kilometers along road. Altitude 1,900 meters. Feb. 18, 1966. In a cultivated field of maize and beans; dry sandy soil. Bushy plants in open; leaflet edges smooth; flowers mauve.

320272 to 320339—Continued

320298 to 320301—Continued

320301. Hawkes No. 3995. Province La Rioja, Dept. Famatina, Sierra Famatina—at base, Los Corrales. Altitude 1,950 meters. Mar. 25, 1966. Amongst tall *Eupatorium* plants (2 meters tall) in damp place by river (crossing fields from lane by house). Plants to 1 meter tall, in partial shade. No flowers; berries.

320302 and 320303. SOLANUM MEGISTACROLOBUM Bitt.

320302. Hawkes No. 3727. Province Salta, Dept. Chicoana, road from Escoipe to Cachi, Cuesta del Obispo, 21.4 kilometers above Escoipe. Altitude 3,200 meters. Mar. 5, 1966. In grass by roadside.

320303. Hawkes No. 3829. Province Salta, Dept. Santa Victoria, road from Yavi to Santa Victoria at 16 to 16.7 km. from Santa Victoria. Altitude 3,450 to 3,500 meters. Mar. 13, 1966. Wet puna; by road among herbs and stones. Flowers deep rich purple; berries globular, slightly white spotted.

320304 to 320310. SOLANUM MICRODONTUM Bitter

320304. Hawkes No. 3777. Province Jujuy, Dept. Tumbaya, Volcan, western slopes of cordillera on east side of Quebrada Grande, path from Loma de Tambo to Abra Grande de Volcan. Altitude 3,080 meters. Mar. 9, 1966. Among bushes on a flat mesada where cattle have stood. Rich soil. Flowers and fruits.

320305. Hawkes No. 3781. Province Jujuy, Dept. Tumbaya, Volcan, western facing slopes on east side of Quebrada Grande, path from Volcan to Abra Grande de Volcan. Altitude 2,960 meters. Mar. 9, 1966. In large cattle enclosure and among shrubs around it. Mixed with *S. vernei* (P.I. 320333) and *S. microdontum* × *S. vernei* ssp. (P.I. 320338). Fruits.

320306. Hawkes No. 3830. Province Salta, Dept. Santa Victoria, road from La Quiaca to Santa Victoria, 7.2 km. from Santa Victoria, between La Huerta and Rodeopampa. Altitude 2,830 meters. Mar. 13, 1966. Amongst bushes by side of road. Stem in largest plants to 10 mm. diameter, wings straight, to 2.5 mm. flowers white; berries.

320307. Hawkes No. 3863. Province Salta, Dept. Santa Victoria, between La Herta and Rodeopampa, 7 km. from Santa Victoria on the road to La Quiaca. Altitude 2,725 m. Mar. 15, 1966. Below road, among bushes and stones. Stems branched; calyx and pedicels dark in some plants; flowers white; long styles; many berries.

320308. Hawkes No. 3866. Province Salta, Dept. Santa Victoria, between La Huerta and Rodeopampa, 8.1 km. from Santa Victoria on the road to La Quiaca. Altitude 2,850 m. Mar. 15, 1966. By roadside; one plant; one berry.

320309. Hawkes No. 3868. Province Salta, Dept. Santa Victoria, between La Huerta and Rodeopampa, 9.3 km. from Santa Victoria, just below Rodeopampa. Altitude 2,950 m. Mar. 15, 1966. Among bushes at point where river crosses road. Similar to (P.I. 320307).

320310. Hawkes No. 3871. Province Salta, Dept. Santa Victoria, just below Rodeopampa, 9.3 km. from Santa Victoria on road to La Quiaca. Altitude 2,950 m. Mar. 15, 1966. By road. Plants very tall; leaves simple; flowers white.

320311 to 320321. SOLANUM SIMPLICIFOLIUM var. TRIMEROPHYLLUM

Bitt. ex Brucher & Ross

320272 to 320339—Continued

320311 to 320321—Continued

320311. Hawkes No. 3464. Province Tucuman, Dept. Famaila, road to Tafi del Valle at 36 km. from Acheral. Altitude 1,350 m. Feb. 14, 1966. Among bushes and stones by roadside in rain forest. Plants to 1.75 m.; stem to 1.5 cm. diameter, with large purple wings to 5 mm. wide; crisped. Some fruits. Very abundant. Flowers white. Stem dark purple.
320312. Hawkes No. 3473. Province Tucuman, Dept. Tafi, road to Tafi del Valle, at 44 km. from Acheral, Duraznos Blancos. Altitude 1,730 meters. Feb. 14, 1966. Among bushes and herbs by road in rain forest zone.
320313. Hawkes No. 3663. Province Salta, Dept. Guachipas, Estancia Pampa Grande, Cerro Cristal. Altitude 2,600 m. Mar. 3, 1966. Pajonales, open grassland. Flowers white. Some immature berries.
320314. Hawkes No. 3681. Province Salta, Dept. Guachipas, 20.3 kilometers from Pampa Grande (kilometer 1,480). Altitude 1,920 m. Mar. 4, 1966. Among stones and bushes by road, growing with *S. chacoense*. No setae; berries.
320315. Hawkes No. 3683. Province Salta, Dept. Guachipas, 21.2 kilometers from Pampa Grande on road to Salta. Ojo de Agua. Altitude 1,950 m. Mar. 4, 1966. Among bushes by road, *S. chacoense* nearby. Flowers; berries.
320316. Hawkes No. 3690. Province Salta, Dept. Capital, Quebrada de San Lorenzo. Altitude 1,500 m. Mar. 4, 1966. Under shade of *Phoebe porphyria*, *Alnus*, etc. Rain forest; very rich damp soil. Leaves simple, with cell burst, indicating too much rain; plants frequent but not well developed in general. Very few flowers.
320317. Hawkes No. 3699. Province Salta, Dept. Chicoana, 28.8 km. from Carril and 4 km. above Mal Paso. Altitude 1,700 m. Mar. 5, 1966. Growing on roadside scree with *S. chacoense* (Hawkes No. 3700).
320318. Hawkes No. 3710. Province Salta, Dept. Chicoana, road from Carril to Cachi, Cuesta del Obispo, 9.8 km. above Escoipe. Altitude 2,550 m. Mar. 5, 1966. Among bushes by side of road.
320319. Hawkes No. 3753. Province Jujuy, Dept. Capital, Termas de Reyes, side quebrada above hotel. Altitude 1,750 to 1,850 m. Mar. 7, 1966. In scrub and among bushes and stones in bottom of quebrada. Damp humiferous soil.
320320. Hawkes No. 3919. Province Salta, Dept. Guachipas, Estancia Pampa Grande, path to Cerro Cristal. Altitude 2,300 m. Mar. 20, 1966. By path, in *Alnus jorullensis* woods.
320321. Hawkes No. 4001. Province La Rioja, Dept. Chilecito, 23 km. from Chilecito on road to Guanchin Viejo. Finca of Domingo Rivero. Altitude 1,800 m. Mar. 26, 1966. Place where collections made previously (Hawkes No. 3357), near irrigation ditch, but other side; not previously collected.

320322. SOLANUM OPLOCENSE Hawkes

Hawkes No. 3907. Province Jujuy, Dept. Humahuaca, between Iturbe and Tres Cruces, by railway at 1,313 to 1,313.5 kilometers. Altitude 3,530 to 3,550 m. On banks of rock and stones by railway; some plants with *S. indundibuliforme* (Hawkes No. 3906) at 1313.5 km.; others among bushes and in stony banks near railway at 1,313 km.

320323 to 320325. SOLANUM SANCTAE-ROSAE Hawkes

320323. Hawkes No. 3488. Province Tucuman, Dept. Tafi, near Infiernillo, Quebrada Honda, above kilometer 83 on road from Tafi del Valle to Cafayate, above La Casita. Altitude 3,550 m. Feb. 15, 1966.

320272 to 320339—Continued

320323 to 320325—Continued

Place where horses and cattle shelter, under a very large rock; very rich soil. Berries.

320324. Hawkes No. 3496. Province Tucuman, Dept. Tafi, near Infernillo, Quebrada Honda, above kilometer 83 on road from Tafi del Valle to Cafayate, above La Casita. Altitude 3,200 m. Feb. 15, 1966. Growing in short grass.

320325. Hawkes No. 3939. Province Salta, Dept. Guachipas, Estancia Pampa Grande, western mountain range between Cerro Cristal and Cerro Pirgua, on a ridge, northfacing slope; dry soil. Mar. 20, 1966. Altitude 2,650 to 2,670 m. Ripe berries. Some plants still green, one with faded purple flower.

320326. SOLANUM TUBEROSUM L.

Potato.

Hawkes No. 4051.

320327 and 320328. SOLANUM VENTURII Hawkes

320327. Hawkes No. 3741. Province Salta, Dept. Chicoana, road from Escoipe to Cachi, Cuesta del Obispo, 15.6 km. from Piedra Molina, 11 km. from Escoipe. Mar. 6, 1966. Altitude 2,700 m. In a scree below the road, partial shade of bushes. Larger plants (contrast P.I. 320328), near a plant of *S. microdontum*. Plants to 60 cm. Flowers clear white. Abundant flowers and fruits.

320328. Hawkes No. 3742. Province Salta, Dept. Chicoana, road from Escoipe to Cachi, Cuesta del Obispo, 15.6 km. from Piedra Molina, 11 km. from Escoipe. Mar. 6, 1966. Altitude 2,700 m. Growing close to P.I. 320327. Same habitat. Smaller plants, further from the plant of *S. microdontum*. Abundant flowers and fruits. Flowers clear white.

320329 to 320332. SOLANUM VERNEI Bitter & Wittm. ex Engl.

320329. Hawkes No. 3504. Province Tucuman, Dept. Tafi, near Infernillo, below kilometer 83 on road from Tafi del Valle to Cafayate, in a quebrada of an affluent of Rio Infernillo. Altitude 2,900 m. Feb. 15, 1966. Shaded valley, surrounded by shrubs, in rich soil, humid. Plant to 1.65 m. high; others quite short, according to habitat. Rich purple flowers; many berries. Very common.

320330. Hawkes No. 3505. Province Tucuman, Dept. Tafi, near Infernillo, lower down on road than (P.I. 320329) from Tafi del Valle to Cafayate. Altitude 2,850 m. Dry mesada on side of quebrada. Full sun, in open. No flowers; some fruits; plants wilting.

320331. Hawkes No. 3538. Province Catamarca, Dept. Andalgalá, east slope of Nevados de Aconquija, Estancia "Yunca Suma", Casa de Piedra to Los Quenoales. Altitude 2,270 meters. Feb. 20, 1966. Growing in bushes by path, together with *S. microdontum*, in shade. *Alnus* woods. No flowers.

320332. Hawkes No. 3542. Province Catamarca, Dept. Andalgalá, east slope of Nevados de Aconquija, Estancia "Yunca Suma", Los Quenoales. Altitude 2,450 m. February 20, 1966. Bushy slope in half shade of *Alnus*, etc. No flowers. Plants to 1.5 m. Many berries.

320333. SOLANUM VERNEI Bitt. & Wittm. ex Engl.

Hawkes No. 3780. Province Jujuy, Dept. Tumbaya, Volcan, western facing slopes on east side of Quebrada Grande, path from Volcan to Abra Grande Volcan. Altitude 2,960 m. Mar. 9, 1966. In a large cattle enclosure and among shrubs around it. Mixed with *S. microdontum* (P.I. 320305) and close to *S. microdontum* × *S. vernei* ssp. *ballsii* (P.I. 320338). Tall plants with fruits.

320272 to 320339—Continued

320334 to 320339. SOLANUM (hybrids).

320334. Hawkes No. 3356. (*S. spegazzinii* × *S. kurtzianum*). Province La Rioja, Dept. Chilecito, Guanchin Viejo to El Bordo. Altitude 1,800 m. Jan. 31, 1966. In a grassy shrubby enclosure by road, extremely common. Flowers purple and white. *S. kurtzianum* (P.I. 320297) from same place.
320335. Hawkes No. 3363. (*S. microdontum* ssp. *gigantophyllum* × *S. kurtzianum*). Province La Rioja, Dept. Chilecito, Guanchin Viejo, just above the river crossing. Altitude 1,800 m. Jan. 31, 1966. In grass and among bushes by road. No flowers; buds very like those of *S. rechei*, also leaves.
320336. Hawkes No. 3364. (*S. microdontum* ssp. *gigantophyllum* × *S. kurtzianum*). Province La Rioja, Dept. Chilecito, Guanchin Viejo, in a disused field by the road in full sun. Altitude 1,800 m. Jan. 31, 1966. Flowers white, stamens sterile (but berries collected later).
320337. Hawkes No. 3697. (*S. chacoense* × *S. microdontum* ssp. *gigantophyllum*). Province Salta, Dept. Chicoana, 26.2 km. from Carril and 1.4 km. above Mal Paso. Altitude 1,650-1,700 m. Mar. 5, 1966. Roadside banks and in woods under trees. All types of segregates. No pure ssp. *gigantophyllum* nearby.
320338. Hawkes No. 3782. (*S. microdontum* × *S. vernei* ssp. *ballsii*). Province Jujuy, Dept. Tumbaya, Volcan, western facing slopes on east side of Quebrada Grande, path from Volcan to Abra Grande de Volcan. Altitude 2,960 meters. Mar. 9, 1966. In a large cattle enclosure and among shrubs around it. Mixed with *S. microdontum* (P.I. 320305) and *S. vernei* (P.I. 320333). Plants with some lateral leaflets, white flowers tinted with pale purple, and some fruits.
320339. Hawkes No. 4007. (*S. microdontum* × *S. kurtzianum*). Province La Rioja, Dept. Chilecito, road from Chilecito to Mina de Oro, finca "El Trapiche", belonging to Sr. Antonio Vedia, above Las Talas, about 10 km. from Chilecito. Altitude about 1,500 m. Mar. 26, 1966. By an irrigation channel in rich damp soil among shrubs. Some plants 2 m. high; some with mottle virus. Flowers white; stamens loose; a few berries.

320340 to 320344.

From Germany. Seeds received February 1966 from H. Ross, Max-Planck Institut für Züchtungsforschung, 5 Köln-Vogelsang. Numbered May 23, 1967.

320340 and 320341. SOLANUM GOURLAYI Hawkes. Solanaceae.

320340. EBS 2288. Collected 1963 by Teddy Monasterios, Cerro de Oruro, Bolivia, 4,100 meters.
320341. EBS 2382. Collected Mar. 22, 1964 by Ana Maria Krueger, Paxana, Bolivia, 3,800 to 4,000 meters.

320342. SOLANUM POLYADENIUM Greenm.

EBS 2627. Collected Aug. 4, 1965. Cerro Punguato near Morelia, Mexico.

320343. SOLANUM STOLONIFERUM Schlecht. & Bouche

Collected Aug. 3, 1965. Cerro Punguato near Morelia, Mexico. (With possible introgressions from *S. polytrichon*).

320344. SOLANUM VERRUCOSUM Schlecht.

EBS 2632. Collected Aug. 6, 1965 on road from Patzcuaro to Opopeo, Mexico. 2,700 meters.

320345 to 320394.

From Colombia. Seeds from the Coleccion Central Colombiana de Papa (CCC), received May 1966, from Nelson Estrada Ramos, Instituto Colombiano Agropecuario "Tibaitata", Bogota. Numbered May 23, 1967.

320345. SOLANUM ANDREANUM Baker Solanaceae.

Hawkes No. 2546.

320346. SOLANUM COLOMBIANUM Dunal

Hawkes No. 2544.

320347 to 320394. SOLANUM PHUREJA Juz. & Buk.

320347. CCC 1115. Chaucha amarilla.

320348. CCC 1149. Amarilla.

320349. CCC 1150.

320350. CCC 1152. Amarilla.

320351. CCC 1210. Chaucha blanca.

320352. CCC 1211. Chaucha rosada.

320353. CCC 1215. Pina.

320354. CCC 1217. Chaucha negra.

320355. CCC 1219. Chaucha colorada.

320356. CCC 1223. Reina.

320357. CCC 1227. Pina.

320358. CCC 1229. Chaucha blanca.

320359. CCC 1231. Calavera.

320360. CCC 1232. Chaucha uzul.

320361. CCC 1235.

320362. CCC 1236. Chaucha.

320363. CCC 1237. Chaucha.

320364. CCC 1340. Roja.

320365. CCC 1343.

320366. CCC 1344. Yema de huevo.

320367. CCC 1346. Criolla amarilla.

320368. CCC 1351. Pan de Dios.

320369. CCC 1354. Gigante.

320370. CCC 1357. (Dodds 60).

320371. CCC 1360. (Dodds 63).

320372. CCC 1361. (Dodds 64).

320373. CCC 1364. (Dodds 67).

320374. CCC 1365. (Dodds 70).

320375. CCC 1369. (Dodds 76).

320376. CCC 1371. (Dodds 85).

320377. CCC 1374. (Dodds 90).

320378. CCC 1376. (Dodds 93).

320379. CCC 1378. (Dodds 99).

320380. CCC 1379. (Dodds 101).

320345 to 320394—Continued**320347 to 320394—Continued**

320381. CCC 1380. (Dodds 106).
 320382. CCC 1381. (Dodds 107).
 320383. CCC 1382. (Dodds 108).
 320384. CCC 1383. (Dodds 109).
 320385. CCC 1384. (Dodds 114).
 320386. CCC 1387. (Dodds 118).
 320387. CCC 1389. (Dodds 123).
 320388. CCC 1390. (Dodds 125).
 320389. CCC 1400. (Dodds 77).
 320390. CCC 1409. (Dodds 103).
 320391. CCC 1410. (Dodds 105).
 320392. CCC 1411. (Dodds 112).
 320393. CCC 1412. (Dodds 115).
 320394. CCC 1413. (Dodds 119).

320395. RHODODENDRON PULCHRUM var. MAXWELLII (Millais)
 Rhed. ex Stevens Ericaceae.

From Great Britain. Plants purchased from Sunningdale Nurseries, Windlesham, Surrey. Numbered May 29, 1967.

320396 to 320409.

From Korea. Plants collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Maryland. For U.S.D.A.-Longwood Cooperative Program. Numbered May 29, 1967.

320396. ATHYRIUM GRAMMITOIDES (Presl) Milde Aspidiaceae.

Col. No. K-92. On rocky ledges along trail on Mt. Odai, Kangwon-do. Elevation 780 meters. Low fern; fronds once pinnate; sori long; indusium attached laterally.

320397. ATHYRIUM JAPONICUM (Thunb.) Copel.

Col. No. K-260. Along trail on Mt. Tok-Yu, Ko Chun. Fronds once pinnate; sori alternate along vein.

320398 and 320399. ATHYRIUM YOKOSCENSE (Fr. & Sav.) Christ

320398. Col. No. K-84. On rock ledges in sandy soil along trail on Mt. Odai, Kangwon-do. Elevation 780 meters. Twice pinnate fronds; center of pinnules usually gray green; produces offsets from crown; indusium attached laterally, reniform.

320399. Col. No. K-147. In shade along trail on Mt. Chiri, Cholla Nam-do. Elevation 1,410 meters. Fern to 0.5 meter; fronds bipinnate; sori not seen.

320400. CONIOGRAMME FRAXINEA (Don) Diels var. INTERMEDIA (Hieron.) C. Chr. Polypodiaceae.

Col. No. K-306. Along trail to Paek Tam Sa, Mt. Sorak. Fern to 6 to 8 dm. tall; fronds 1 to 2 pinnate; pinnate broad and long; sori linear.

320401. SEDUM ERUBESCENS var. JAPONICUM (Maxim.) Ohwi Crassulaceae.

Col. No. K-362. Growing on rocks on eastern slope of Mt. Sorak, Kangwon-do. Elevation 1,470 meters. Fleshy-leaved, rosette-forming plant; flowers white.

320396 to 320409—Continued

320402. *DAVALLIA MARIESII* Moore Davalliaceae.

Col. No. K-162. Growing on large *Carpinus* tree in Piakok Valley, Mt. Chiri, Cholla Nam-do. Elevation 750 meters. Rhizomatous fern; fronds tripinnate; sori linear.

320403. *OSMUNDA ASIATICA* (Fern). Ohwi Osmundaceae.

Col. No. K-324. In shade areas along trail up Mt. Sorak. Elevation 870 meters. Perennial fern; rootstock heavy; fronds robust; 1 to 2 pinnate.

320404. *OSMUNDA JAPONICA* Thunb.

Col. No. K-431. In dense shade along trail up Mt. Halla, Cheju Island. Elevation 850 meters. Fern to 0.75 meters.

320405 and 320406. *POLYSTICHUM TRIPTERON* (Kunze) Presl Aspidiaceae.

320405. Col. No. K-89. Along trail (usually in moist rocky soil in shade) on Mt. Odai, Kangwon-do. Fern to 0.5 meter; frond once pinnate, except for 1 pair of branches at base of frond.

320406. Col. No. K-230. In shady, moist ravine, growing on mossy rocks, Mt. Sokni, Chungchong Pukto. Fern to 0.5 meter; fronds branched at base.

320407. *PYRROSIA LINEARIFOLIA* (Hook.) Ching Polypodiaceae.

Col. No. K-241. Growing on rocks in open on Mt. Sokni. Elevation 600 meters. Fronds linear, velvety.

320408. *TRICHOMANES* sp. Hymenophyllaceae.

Col. No. K-240. On mossy rocks along stream, Mt. Sokni, Chungchong Pukto. Elevation 300 meters. Very small, filmy fern.

320409. *WOODSIA POLYSTICHOIDES* var. *NUDIUSCULA* Hook. Aspidiaceae.

Col. No. K-298. Along edge of stream on trail to Paek Tam Sa, Mt. Sorak. Elevation 300 meters. Dwarf fern to 2 dm.; fronds 1 pinnate; sori marginal, round.

320410 to 320445. AVENA STERILIS L. Gramineae.**Animated oats.**

From Israel. Seeds presented by the Faculty of Agriculture, The Hebrew University, Jerusalem, under Public Law 480 Project A10-CR-20. Numbered May 31, 1967.

Selected in Israel for stem rust resistance.

320410. 6-174-5-2a-103.	320423. 6-1744-113-405.
320411. 6-174-5-2a-202.	320424. 6-1744-116-408.
320412. 6-174-5-2a-203.	320425. 6-1744-117-402.
320413. 6-174-5-5a-203.	320426. 6-2129-417.
320414. 6-174-306.	320427. 6-76-4-2-103-307.
320415. 6-1099-126a-301.	320428. 6-688-3-101-401.
320416. 6-1253-104-303.	320429. 6-688-3-101-404.
320417. 6-1253-104-304.	320430. 6-688-3-101-407.
320418. 6-1744-102-302.	320431. 6-688-3-101-408.
320419. 6-2130-302.	320432. 6-688-3-101-416.
320420. 6-2130-318.	320433. 6-688-103-401.
320421. 6-1277-118-402.	320434. 6-688-103-402.
320422. 6-1277-119-401.	320435. 6-1197-112-407.

320410 to 320445—Continued

320436. 6-1253-103-304.	320441. 6-2240-301.
320437. 6-1588-101-301.	320442. 6-2190-401.
320438. 6-1588-101-302.	320443. 6-688-111-301.
320439. 6-1730-104-303.	320444. 6-688-111-313.
320440. 6-1730-104-304.	320445. 6-1588-101-303.

**320446 to 320455. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.
Sweetpotato.**

From New Zealand. Cuttings presented by the Vegetable Station, Crops Research Division, Department of Scientific and Industrial Research, Otara, Auckland. Received June 2, 1967.

320446. No. 46.	320451. No. 600.
320447. No. 99.	320452. No. 616.
320448. No. 153.	320453. No. 646.
320449. No. 452.	320454. No. 675.
320450. No. 579.	320455. No. 694.

320456 to 320462. HUMULUS LUPULUS L. Moraceae.**Common hop.**

From the Union of Soviet Socialist Republics. Cuttings presented by the Institute of Plant Industry, Leingrad. Received June 5, 1967.

320456. 'Cepeopska'.	320460. No. 26-9.
320457. No. 5-36.	320461. No. 29-38.
320458. No. 6-9.	320462. No. 30-6.
320459. No. 15-24.	

320463 to 320465. HUMULUS LUPULUS L. Moraceae.**Common hop.**

From the Union of Soviet Socialist Republics. Cuttings presented by the Institute of Plant Industry, Leningrad. Received June 6, 1967.

Moscow region.

320463. 'Serebrianka'.
320464. Clone 16.
320465. Clone 18.

320466. PISTACHIA ATLANTICA Desf. Anacardiaceae.**Mount Atlas pistachio.**

From the Republic of South Africa. Seeds presented by L. Du Preez, Johannesburg. Received June 6, 1967.

320467. LACTUCA SATIVA L. Compositae.**Lettuce.**

From Czechoslovakia. Seeds presented by Research Institute for Plant Production, Prague. Numbered June 7, 1967.

'Smaragd'. (Kambot II). 'Stupicky kamenac' × 'Bettner'.

Suitable for cold forcing frames and unheated forcing houses. Resistant to *Botrytis cinerea* rot. Early, 93 days.

**320468 to 320470. LYCOPERSICON ESCULENTUM Mill. Solanaceae.
Tomato.**

320468 to 320470—Continued

From Republic of South Africa. Seeds presented by Plant Introduction Officer, Department of Agricultural Technical Services, Pretoria. Numbered June 8, 1967.

320468. DL/67/248. Compound inflorescence.

320469. DL/67/249. Dwarf compound inflorescence.

320470. DL/67/250. HRI 1331-1-1.

320471. CYDISTA DIVERSIFOLIA (H.B.K.) Miers Bignoniaceae.

From El Salvador. Seeds presented by C. L. Horn, Agricultural Administrator, United States Department of Agriculture-Agency for International Development, Technical Assistance Agreement, San Salvador. Numbered June 8, 1967.

Vine to 25 feet high, flowers purplish pink. Nearly constant bloom with heavy monthly flushes.

320472 to 320492.

From Sweden. Seeds presented by Fajer Fajersson, Plant Breeding Institution, Weibullsholm, Landskrona. Code numbers represent Weibull's designation. Numbered June 8, 1967.

320472 and 320473. AVENA SATIVA L. Gramineae. **Common oats.**

320472. No. 12539. 'Bambu I'.

320473. No. 13313. 'Trio'.

320474 to 320478. HORDEUM VULGARE L. Gramineae. **Barley.**

320474. No. 305/27. 'Puke II'.

320475. No. 4132. 'Balder'.

320476. No. 4445. 'Stallar'.

320477. No. 4744. 'Herta'.

320478. No. 5006. 'Stallar II'.

320479 to 320492. TRITICUM AESTIVUM L. Gramineae.

Spring wheat.

320479. No. 3086. 'Karn I'. 320482. No. 4138. 'Atson'.

320480. No. 3428. 'Pondus'. 320483. No. 9703. 'Atle'.

320481. No. 3911. 'Karn II'.

Winter wheat.

320484. No. 2650. 'Ergo'. 320489. No. 11783. 'Trond'.

320485. No. 5897. 'Aros'. 320490. No. 12910. 'Norre'.

320486. No. 10752. 'Banco'. 320491. No. 14410. 'Starke'.

320487. No. 10847. 'Virtus'. 320492. No. 14433. 'Thor'.

320488. No. 11746. 'Ertus'.

**320493 to 320499. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.
Sweetpotato.**

From Japan. Tubers and cuttings presented by the American Embassy, Tokyo. Received June 7, 1967.

From Kyushu Agricultural Experiment Station, Kumamoto.

320493. 'Ariake'. High starch content.

320494. 'Kotobuki'. Table type.

320495. 'Kuri-Murasaki'. Table type.

320493 to 320499—Continued

320496. 'Kyushu No. 27'. Table type.
 320497. 'Naka-Murasaki'. Table type.
 320498. 'Norin No. 1'. (Cuttings only).
 320499. 'Norin No. 10'. Nematode resistant.

320500 to 320512. SOLANUM MELONGENA L. Solanaceae.**Eggplant.**

From Canada. Seeds presented by John Wiebe, Horticultural Research Institute of Ontario, Vineland Station, Ontario. Received June 8, 1967.

Breeding lines with sources of field resistance to verticillium wilt originating from crosses between Black Beauty and introduced stocks.

320500. No. 8. Parentage includes P.I. 286101. High resistance, fruit oblong, color good.
 320501. No. 24. Parentage includes P.I. 120796. High resistance.
 320502. No. 25. Parentage includes P.I. 120796. Moderate resistance.
 320503. No. 26. Parentage includes P.I. 120796. Moderate resistance.
 320504. No. 28. Parentage includes P.I. 120796. High resistance.
 320505. No. 29. Parentage includes P.I. 120796. High resistance. Plant very vigorous, fruit striped.
 320506. No. 30. Parentage includes P.I. 143409. Moderate resistance, plant short, fruit striped.
 320507. No. 32. Parentage includes P.I. 143409. Moderate resistance, plant short, fruit oblong.
 320508. No. 33. Parentage includes P.I. 143409. Moderate resistance, plant tall, fruit long to oblong.
 320509. No. 35. Parentage includes P.I. 143409. Moderate resistance, plant short, compact.
 320510. No. 42. Parentage includes P.I. 222269. Moderate resistance, plant fairly large, spreading.
 320511. No. 43. Parentage includes P.I. 222269. Moderate resistance, early.
 320512. No. 55. Parentage includes P.I. 222833. High resistance.

320513 to 320515.

From the Union of Soviet Socialist Republics. Tubers presented by V. S. Lekhnovitch, All-Union Institute of Plant Industry, Leningrad. Numbered June 12, 1967.

- 320513 and 320514. SOLANUM TUBEROSUM L. Solanaceae. **Potato.**
 320513. 'Altai Beauty'. (Krasavec Altaja).
 320514. 'Ekaterinian'. (Ekateriniskij).
 320515. SOLANUM sp.
 Unidentified (No. 3).

320516 to 320530.

From Japan. Seeds presented by Homiki Uyeki, Department of Agriculture, Ehime University, Matuya-ma, Ehime Ken. Collected in Korea unless otherwise noted. Numbered June 12, 1967.

320516. ABIES HOLOPHYLLA Maxim. Pinaceae. **Needle fir.**

320516 to 320530—Continued

320517. *ACER MICRANTHUM* Sieb. et Zucc. Aceraceae. **Pogoda maple.**
Sizuoka, Japan.

320518. *ACER PSEUDO-SIEBOLDIANUM* Komarov **Purplebloom maple.**

320519. *ACER TRIFLORUM* Komarov **Three-flower maple.**

320520. *CATALPA OVATA* Don Bignoniaceae. **Japanese catalpa.**

320521. *CELTIS SINENSIS* Pers. Ulmaceae.

320522. *CHIONANTHUS RETUSUS* Lindl. Oleaceae. **Chinese fringe tree.**

320523. *CRATAEGUS PINNATIFIDA* Bunge Rosaceae. **Chinese hawthorn.**

320524. *EVODIA DANIELLII* (Benn.) Hemsl. Rutaceae.

320525. *LARIX KOREANA* Nakai Pinaceae.

Sizuoka, Japan.

320526. *MAESA JAPONICA* Mor. ex Zoll. Myrsineae.

320527. *MALUS BACCATA* var. *MANDSHURICA* (Maxim.) C. Schneid. Rosa-
ceae. **Manchurian crabapple.**

320528. *PINUS BUNGEANA* Zucc. ex Endl. Pinaceae. **White-barked pine.**

320529. *PINUS KORAIENSIS* Sieb. & Zucc. **Korean pine.**

320530. *PINUS PUMILA* (Pallas) Regel **Stone pine.**

320531. SACCHARUM (hybrid) Gramineae. Sugarcane.

From the Republic of South Africa. Cuttings presented by the South African
Sugar Association, Mount Edgecombe. Received June 14, 1967.

N:Co.310.

320532. CAMELLIA JAPONICA L. Theaceae. Common camellia.

From the United States. Selection made at United States Plant Introduction
Station, Glenn Dale, Maryland. Received June 16, 1967.

Number 2 selection from P.I. 274797. Flower 3 inches diameter, loose
double, solid red, very attractive.

320533 and 320534.

From Canada. Plants purchased from Alpenglow Gardens, North Surrey
British Columbia. Received April 12, 1967. Numbered June 16, 1967.

320533. *PIERIS JAPONICA* (Thunb.) G. Don Ericaceae. **Japanese pieris.**
'Yakushmanum'.

320534. *VACCINIUM VITIS-IDAEA* L. Ericaceae. **Cowberry.**

320535. MEDICAGO SATIVA L. Leguminosae. Alfalfa.

From Brazil. Seeds presented by Dwayne Rohweder, University of Wisconsin
Contract, Agency International Development, Rio Grande do Sul. Re-
ceived June 16, 1967.

'Crioula'. From plants most typical of variety grown in Rio Grande do Sul.

320536 to 320539.

From Taiwan. Seeds presented by Taiwan Agricultural Research Institute,
Taipei. Received June 16, 1967.

320536. *DESMODIUM SEQUAX* Wall. Leguminosae.

320537. *VICIA ANGUSTIFOLIA* L. Leguminosae.

320538. *VICIA SATIVA* L.

320539. *VICIA TETRASPERMA* (L.) Moench

320540 and 320541.

From the United States. Plants collected by Charles R. Gunn, New Crops Research Branch, Plant Industry Station, Beltsville, Maryland. Received June 16, 1967.

320540. *VICIA CAROLINIANA* Walt. Leguminosae.

Macon County, North Carolina. Perennial. Flowers white.

320541. *VICIA* sp.

Jasper County, Georgia. Perennial.

320542. *VICIA GIGANTEA* Hook. Leguminosae.

From the United States. Seeds collected by O. T. Solbrig, Department of Botany, University of California, Berkeley, Received June 16, 1967.

NU 19711.

320543. *VICIA SEPIUM* L. Leguminosae.

From the Union of Soviet Socialist Republics. Seeds presented by Hortus Botanicus Nikitensis, Yalta. Numbered June 16, 1967.

320544. *LOLIUM CANARIENSE* Steud. Gramineae.

From Canary Islands. Seeds presented by A. Garcia Cabezon, Jardin de Aclimatacion, Tenerife. Numbered June 16, 1967. Collected at Iqueste de San Andres, Tenerife, April 1965.

320545 to 320550.

From Taiwan. Seeds presented by Hsiung Wan, Plant Industry Division, Joint Commission on Rural Reconstruction, Taipei. Numbered June 16, 1967.

320545 and 320546. *GLYCINE TABACINA* Benth. Leguminosae.

320545. C 48. Native Penghu.

320546. W 51. Native Taichung.

320547. *GLYCINE TOMENTELLA* Hayata

W 46. Native Kingmen.

320548. *GLYCINE TOMENTOSA* Benth.

W 47. Native Taiwan.

320549. *GLYCINE* sp.

W 55. Native Kingmen.

320550. *GLYCINE* sp.

W 56. Native Malaysia.

320551. *GOSSYPIUM* sp. Malvaceae.

From France. Seeds presented by J. Raingeard, Institut de Recherches du Coton et des Textiles Exotiques, Paris. Numbered June 16, 1967.

'Bractees Atrophiees'.

320552 to 320555. *TRITICUM AESTIVUM* L. Gramineae.

From Argentina. Seeds presented by Hugo P. Cenoz, Instituto Nacional de Tecnologia Agropecuaria, Centro Nacional de Investigaciones Agropecuaria, Instituto de Fitotecnia, Castelar. Numbered June 16, 1967.

320552. D.I.V. 8034. 'Gaboto M.A.G.'.

320553. D.I.V. 8202. 'Puelen M.A.G.'. Guatrache.

320554. D.I.V. 9339. 'Baffo'.

320555. D.I.V. 16737. 'Hucal M.A.G.'. Guatrache.

320556. BRACHIARIA DURA Stapf Gramineae.

From Zambia. Seeds collected by W. C. Verboom, 55 Links Avenue, Felixstowe, Suffolk, England. Numbered June 16, 1967.

Collected in Mongu, Barotseland.

320557 to 320559.

From Finland. Strains developed at Tammisto Plant Breeding Station by Otto Valle, Department of Plant Husbandry, University of Helsinki, Helsinki. Numbered June 16, 1967.

320557. DACTYLIS GLOMERATA L. Gramineae. Orchardgrass.
 320558. FESTUCA PRATENSIS Huds. Gramineae. Meadow fescue.
 320559. PHLEUM PRATENSE L. Gramineae. Timothy.

320560 to 320861.

From Israel. Seeds collected in 1962 and presented in 1964 by I. Wahl, Faculty of Agriculture, Hebrew University of Jerusalem, under Public Law 480 Project A10-CR-20. Numbered June 19, 1967.

- 320560 to 320735. AVENA BARBATA Brot. Gramineae. Slender oats.

From eastern lower Galilee.

320560. 7-112. Poriyya.
 320561. 7-132. Hare Yavne'el.
 320562. 7-142. Givat Hamore.
 320563. 7-143. Tamra.
 320564. 7-154. Ramat zevi.
 320565. 7-155. Bet HaShitta.

Near Sea of Galilee.

320566. 7-113. Zemah.
 320567. 7-114. Deganya.

From Mount Carmel.

320568. 7-115. North of Elyaqim.
 320569. 7-120. North of Elyaqim.
 320570. 7-135. Ofer.
 320571. 7-145. Zikhron Ya'aqov.

From Plateau of Menashe.

320572. 7-121. Tel Yoqne'am.
 320573. 7-147. Daliyya.
 320574. 7-156. Binyamina.
 320575. 7-158. Regavim.
 320576. 7-1589. Ar'ara.

From Valley of Esdraelon.

320577. 7-127. Kefar Yehoshua.
 320578. 7-128. Kefar Barukh.
 320579. 7-130. Tel Adashim.
 320580. 7-137. Mishmar HaEmeq.
 320581. 7-139. Afula.
 320582. 7-149. Megiddo.

320560 to 320861—Continued**320560 to 320735—Continued**

320583. 7-150. Nir Yafe.

320584. 7-152. Geva.

320585. 7-161. Ram On.

320586. 7-162. Perazon.

320587. 7-165. Hefzi Bah.

From Jordan Valley.

320588. 7-133. Ashdot Ca'aqov.

From Coast of Carmel.

320589. 7-134. En-Ayyala.

From Mount Gilboa.

320590. 7-151. Yizre'er.

320591. 7-163. Nurit.

320592. 7-164. Nature Reserve.

From Valley of Bet Shean.

320593. 7-166. Sede Nahum.

320594. 7-167. Hamadya.

320595. 7-177. Reshafim.

320596. 7-178. Newe Etan.

320597. 7-182. Rewaya.

320598. 7-183. Sede Eliyyahu.

320599. 7-184. Kefar Ruppin.

320600. 7-185. Tirat Zevi.

From central coastal plain.

320601. 7-168. Pardes Hanna.

320602. 7-169. Kefar Pines.

320603. 7-179. Hadera.

320604. 7-180. Sha'ar Menashe.

320605. 7-189. Shoshanat Ha'Amaqim.

320606. 7-190. Avihayil.

320607. 7-191. Gan Yoshiyya.

320608. 7-192. Dora (Netanya).

320609. 7-193. Hadassim.

320610. 7-196. Hadassim.

320611. 7-197. Hadassim.

320612. 7-198. Hadassim.

320613. 7-199. Beerotayim.

320614. 7-200. South of Udim (N. Poleg).

320615. 7-201. West of Tel Mond.

320616. 7-202. Kefar Avoda.

320617. 7-204. Shefayim.

320618. 7-205. Bazra.

320560 to 320861—Continued**320560 to 320735—Continued**

320619. 7-206. Qalmaniyya.
 320620. 7-208. Herzliyya.
 320621. 7-209. Ramat HaShavim.
 320622. 7-210. Newe Yamin.
 320623. 7-211. Tel Baruch.
 320624. 7-212. Ramat Aviv.
 320625. 7-215. North of Antipatris.
 320626. 7-218. Rosh Ha'Ayin.
 320627. 7-219. Ramat Pinkas.
 320628. 7-220. Beerot Yizhaq.
 320629. 7-223. Kefar Habad.
 320630. 7-229. Lod (Iyddia).
 320631. 7-230. Lod (Iyddia).
 320632. 7-236. Holot Yavne.
 320633. 7-237. Bet Hanan.
 320634. 7-238. Beer Ya'aqov.
 320635. 7-239. Lod.
 320636. 7-241. Mediterranean seashore west of Kefar HaNagid.
 320637. 7-242. Zaranuga.
 320638. 7-243. Sitriyya.
 320639. 7-244. Ramla.
 320640. 7-246. Bea Zakkay.
 320641. 7-247. Bet El'azari.
 320642. 7-248. Mazkeret Batya.
 320643. 7-252. West of Nir Gallim.
 320644. 7-253. Bene Darom.
 320645. 7-255. North of Gedera.
 320646. 7-256. West of Yesodot.
 320647. 7-387. Kefar Monash.

From Foothills of Samaria.

320648. 7-188. Jatt.
 320649. 7-203. South of Taiyiba.
 320650. 7-207. Eyal.
 320651. 7-221. Nahshonim.
 320652. 7-235. H. Nevallat.
 320653. 7-250. Kefar Bin Nun.
 320654. 7-251. Sha'alvim.

From Judean Foothills.

320655. 7-240. Cimzo.
 320656. 7-245. H. Bet Anava.
 320657. 7-249. Pedaya.

320560 to 320861—Continued**320560 to 320735—Continued**

320658. 7-257. Tal Shahaar.
 320659. 7-262. Har'ol.
 320660. 7-278. Haruvit.
 320661. 7-279. Tirosh.
 320662. 7-280. East of Yishi.
 320663. 7-281. Yishi.
 320664. 7-282. Hartuv.
 320665. 7-292. West of Tel Zafit.
 320666. 7-293. Sedot Mikha.
 320667. 7-295. South of Kefar Zekharya.
 320668. 7-315. North of Bet Nir.
 320669. 7-316. Zafririm.
 320670. 7-317. West of Netiv HaLamed He.
 320671. 7-318. Adderet.
 320672. 7-330. Cal'on.
 320673. 7-332. Nehusha.
 320674. 7-344. Lakhish.
 320675. 7-355. West of H. Ramya.
 320676. 7-356. West of H. Ramya.
 320677. 7-383. West of Devira.
 320678. 7-384. Lahav.

From Judean Mountains.

320679. 7-263. Shaar Hagay.
 320680. 7-264. Mesillat Ziyyon.
 320681. 7-265. Abu Ghosh.
 320682. 7-266. Qiryat Ye'arim.
 320683. 7-283. N. Soreq north of Nes Harim.
 320684. 7-284. West of Sappir.
 320685. 7-285. En Kerem.
 320686. 7-286. Jerusalem.
 320687. 7-296. Matta.
 320688. 7-297. Mevo Betar.

From southern coastal plain.

320689. 7-267. Shtulim.
 320690. 7-269. Mashmia Shalom.
 320691. 7-275. Hazav.
 320692. 7-276. Kefar Harif.
 320693. 7-277. West of Kefar Menahem.
 320694. 7-287. Nizzanim.
 320695. 7-288. Nizzanim.
 320696. 7-289. Civ'ati.

320560 to 320861—Continued**320560 to 320735—Continued**

320697. 7-290. Avigdor.
320698. 7-291. Qedma.
320699. 7-298. Ashqelon (Afridar).
320700. 7-299. Tel Ashqelon.
320701. 7-300. Berekhya.
320702. 7-301. Negba.
320703. 7-302. Qomemiyot.
320704. 7-308. Sequla.
320705. 7-319. West of Zikim.
320706. 7-320. Mavqi'im.
320707. 7-321. Iyye Bet Tama.
320708. 7-325. Iyye Bet Tama.
320709. 7-326. Iyye Bet Tama.
320710. 7-327. East of Kokhav.
320711. 7-328. Shahar.
320712. 7-329. Gat.
320713. 7-333. East of Yad Mordekhy.
320714. 7-334. Gevar'am.
320715. 7-335. Niva.
320716. 7-336. Sede David.
320717. 7-337. West of Etan.
320718. 7-338. Uza.
320719. 7-345. Yad Mordehai.
320720. 7-346. Ibbim.
320721. 7-347. Beror Hayil.
320722. 7-357. Nahal Oz.
320723. 7-358. Kefar Azza.
320724. 7-359. East of Mefallsim.
320725. 7-380. Kissufim.
320726. 7-381. North of Re'im.

From Northern Negev.

320727. 7-348. N. Shiqma south of Tel Hasi.
320728. 7-351. N. Shiqma south of Tel Hasi.
320729. 7-361. South of Dorot.
320730. 7-362. West of Huhama.
320731. 7-371. Talme Bilu.
320732. 7-372. Qelahim.
320733. 7-374. Qelahim.
320734. 7-378. Qelahim.
320735. 7-382. Giv'olim.

320560 to 320861—Continued

320736 to 320861. AVENA STERILIS L.

Animated oats.

From eastern lower Galilee.

320736. 6-146. Bet-Qeshet.

320737. 6-149. Mishmar HaSheloshah.

320738. 6-174. En Dor.

320739. 6-175. Kefar Kisch.

320740. 6-191. Givat Hamore.

320741. 6-193. Tamra.

320742. 6-224. North of Bet HaShitta.

Near Sea of Galilee.

320743. 6-151. Tel-Qazir.

From Coast of Carmel.

320744. 6-152. En-Karmel.

320745. 6-181. En Ayyala.

320746. 6-201. Ma'yan Zevi.

From Mount Carmel.

320747. 6-153. Kerem Maharal.

320748. 6-154. North of Elyaqim.

320749. 6-183. Bat Shelomo.

320750. 6-184. East of Bat Shelomo.

320751. 6-207. Zikhron Ya'aqov.

320752. 6-212. Meir Shefeya.

From plateau of Menashe.

320753. 6-160. Tel Yoqne'am.

320754. 6-213. Daliyya.

320755. 6-214. South of Daliyya.

From valley of Esdraelon.

320756. 6-173. Tel Adashim.

320757. 6-188. HaYogev.

320758. 6-217. East of Megiddo.

320759. 6-218. Nir Yafe.

320760. 6-222. Ramat Zovi.

320761. 6-236. Hafzi-Bah.

From Jordan Valley.

320762. 6-179. Ashdot Ya'aqov.

From Valley of Bet Shean.

320763. 6-253. Sede Eliyyaho.

From central coastal plain.

320764. 6-256. East of Kefar Vitkin.

320765. 6-261. Avihayil.

320766. 6-263. Kefar Monash.

320767. 6-265. Dora (Netanya).

320560 to 320861—Continued**320736 to 320861—Continued**

320768. 6-266. Hadassim.
 320769. 6-269. Hadassim.
 320770. 6-272. Beerotayim.
 320771. 6-274. South of Udim (N. Poleg).
 320772. 6-275. West of Tel Mond.
 320773. 6-276. Kefar Avoda.
 320774. 6-278. Shefayim.
 320775. 6-279. Bazra.
 320776. 6-280. Qalmaniyya.
 320777. 6-282. Herzliyya.
 320778. 6-284. Ramot HaShavim.
 320779. 6-285. Newe Yamin.
 320780. 6-286. Ramat Aviv.
 320781. 6-290. North of Antipatris.
 320782. 6-296. Ramat Pinkas.
 320783. 6-299. Ezra Uvizaron.
 320784. 6-306. Lod (Lyddia).
 320785. 6-313. Holot Yavne.
 320786. 6-315. Beer Ya'aqov.
 320787. 6-316. Lod.
 320788. 6-321. South of Ramla.
 320789. 6-323. Ben Zakkay.
 320790. 6-334. East of Bene Ayish.
 320791. 6-335. West of Yesodot.

From foothills of Samaria.

320792. 6-281. Eyal.
 320793. 6-298. Nahshonim.
 320794. 6-312. H. Nevallat.

From Judean foothills.

320795. 6-317. Gimzo.
 320796. 6-327. Pedaya.
 320797. 6-328. Kefar Bin Nun.
 320798. 6-336. Tal-Shahar.
 320799. 6-337. Tal-Shahar.
 320800. 6-339. Tal-Shahar.
 320801. 6-359. Haruvit.
 320802. 6-363. Haruvit.
 320803. 6-374. West of Tel Zafit.
 320804. 6-375. Sedot Mikha.
 320805. 6-376. South of Kefar Zekharya.
 320806. 6-377. Netiv HaLamed He.

320560 to 320861—Continued**320736 to 320861—Continued**

320807. 6-386. Netiv Halamed He.
 320808. 6-411. North of Bet Nir.
 320809. 6-426. Cal'on.
 320810. 6-427. West of Bet Guvrin.
 320811. 6-428. Nehusha.
 320812. 6-440. H. Ma'aglan.
 320813. 6-450. Ahuzzam.
 320814. 6-452. West of H. Ramya.
 320815. 6-453. Amazia.

From Judean Mountains.

320816. 6-343. Mesillat Ziyyon.
 320817. 6-344. Sha'ar HaGay.
 320818. 6-347. Qastel.
 320819. 6-364. N. Soreq north of Nes Harim.
 320820. 6-365. West of Sappir.
 320821. 6-366. En Kerem.
 320822. 6-367. Jerusalem.
 320823. 6-392. Matta.
 320824. 6-393. Mevo Betar.

From southern coastal plain.

320825. 6-348. Shtulim.
 320826. 6-357. Kefar Harif.
 320827. 6-358. West of Kefar Menahem.
 320828. 6-368. Nizzanim.
 320829. 6-369. Nizzanim.
 320830. 6-371. Avigedor.
 320831. 6-373. East of Qedma.
 320832. 6-394. Ashgelon (Afridar).
 320833. 6-395. Tel Ashgelon.
 320834. 6-396. Berekhya.
 320835. 6-397. Negba.
 320836. 6-409. Nir Banim.
 320837. 6-415. Ziqim.
 320838. 6-416. Mavqi'im.
 320839. 6-423. East of Kokhav.
 320840. 6-424. Shahar.
 320841. 6-425. Gat.
 320842. 6-430. Gevar'am.
 320843. 6-431. Niva.
 320844. 6-432. Sede David.
 320845. 6-433. West of Etan.

320560 to 320861—Continued**320736 to 320861—Continued**

320846. 6-434. Uza.
 320847. 6-441. Yad Mordehai.
 320848. 6-442. Ibbim.
 320849. 6-443. Beror Hayil.
 320850. 6-457. South of Tel Irit.
 320851. 6-458. East of Mefalsim.
 320852. 6-459. Sederot.
 320853. 6-470. West of Beeri.
 320854. 6-485. East of Kissufin.
 320855. 6-487. North of Re'im.
 320856. 6-488. West of Re'im.
 From Northern Negev.
 320857. 6-460. South of Dorot.
 320858. 6-472. Tequma.
 320859. 6-473. Telme Bilu.
 320860. 6-480. East of Sede Ze'vi.
 320861. 6-483. Bet Qama.

320862 to 320864. ROSA MULTIFLORA Thunb. Rosaceae.**Japanese rose.**

From the Republic of South Africa. Scions presented by the Division of Seed Control, Department of Agriculture Technical Services, Pretoria. Received June 19, 1967.

320862. 'Basye'. Clone No. 110.
 320863. 'Brooks'. Clone No. 34.
 320864. 'Clarke'. Clone No. 54.

320865. COIX LACRYMA-JOBI L. Gramineae.**Jobs-tears.**

From Brazil. Seeds presented by B. V. Skvortzov, Instituto de Botanica, Sao Paulo. Received June 20, 1967.

Originally from Japan.

320866. CAMELLIA SINENSIS (L.) Kuntze Theaceae.**Tea.**

From Pakistan. Seeds presented Jan. 15, 1965 by Pakistan Tea Board, Dacca. Received June 21, 1967.

Mixture of seeds from nucleus clones plot at Pakistan Tea Research Station.

320867 and 320868. CAMELLIA SINENSIS (L.) Kuntze Theaceae.**Tea.**

From Brazil. Cuttings obtained Aug. 4, 1965 through the United States Agency for International Development, Rio de Janeiro. Received June 21, 1967.

320867. 'Benifomare'.
 320868. 'Yamamoto'.

320869 to 320874. MALUS SYLVESTRIS Mill. Rosaceae.**Apple.**

From Turkey. Scions presented by Crop Research and Introduction Center, Karsiyaka, Izmir. Received June 21, 1967.

Scions of 'Amasya' variety taken from individual trees.

320869 to 320874—Continued

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|-----------------------|-----------------------|
| 320869. CRIC 8635-67. | 320872. CRIC 8963-67. |
| 320870. CRIC 8961-67. | 320873. CRIC 8964-67. |
| 320871. CRIC 8962-67. | 320874. CRIC 8965-67. |

**320875 to 320885. CYNODON DACTYLON (L.) Pers. Gramineae.
Bermudagrass.**

From the United States. Plants collected in 1966 by G. W. Burton and held by Coastal Plain Experiment Station, Tifton, Ga. Received June 21, 1967.

From Italy.

320875. Col. No. 19. Milano. In turf on thin, dry soil layer on railroad overpass. Common type. No stem gall.
320876. Col. No. 20. Brembo river valley near Lenna along road to Foppolo. Elevation 900 meters. Plant medium tall. No disease at this elevation or higher.

From France.

320877. Col. No. 22. Along road near Le Muy. Very dry area; many plants dried. Main grass on road shoulders. Common type. No stem gall.
320878. Col. No. 23. In vineyard between Remoulins and Uzes. Plant medium tall, no disease.
320879. Col. No. 24. Along highway N 107, 29 km. southeast of Florac. Elevation 800 meters. Very dry site. One small clump with no heads, medium tall, common type. No disease.
320880. Col. No. 25. Along highway N 107, 24 km. southeast of Mende. Elevation 1,000 meters. Plant tall, vigorous, resembles 'Coastal'. No disease.
320881. Col. No. 26. Roadside between Fontenay and Nallers on traffic-worn gravel. Good common type. No disease. Associated grasses *Lolium perenne*, *Agrostis* and *Festuca*.
320882. Col. No. 28. Roadside on high hill east of St. Maxient, exposed to wind, cold and heavy traffic. Associated plants *Lolium perenne*, *Festuca* and *Trifolium pratense*.
320883. Col. No. 29. In rock cracks at waters edge of Loire river near Varades. Large common type. No disease.
320884. Col. No. 30. Rambouillet. At edge of *Agrostis* lawn around Chateau. Good common type, vigorous, no disease, apparently many years old.
320885. Col. No. 31. Paris. Tuilleries and along Champs Elysees. Common types. No heads, no disease or insects. Clumps along edge of *Agrostis-Festuca-Poa* turf.

320886 and 320887.

From Korea. Plant material collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Maryland. For U.S.D.A.-Longwood Garden Cooperative Program. Numbered June 22, 1967.

320886 and 320887. CAMELLIA JAPONICA L. Theaceae. Common camellia.

320886. Col. No. K-19. On road from Soguipo to Cheju, Cheju Island, growing at edge of woods. Elevation 480 meters. Evergreen shrub to 1.8 meters high, very dense. Flowers not seen. Cuttings.
320887. Col. No. K-38. On trail along east coast of Ullungdo, in forest of *Acer* and *Pinus*. Elevation 300 meters. Evergreen shrub to 3 meters high. Darkest green leaves in area. Flowers not seen. Cuttings.

320888 to 320895. CAMELLIA JAPONICA L. Theaceae.**Common camellia.**

From Japan. Plant material collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Maryland. Numbered June 22, 1967.

Kurume City, Japan. In garden of Nakahara Chyorakuen. Evergreen shrubs of race called Higo camellias. Cuttings.

320888. Col. No. K-510. 'Kumagai'.
 320889. Col. No. K-512. 'Momigigari'.
 320890. Col. No. K-513. 'Shin Turasa Nishiki'.
 320891. Col. No. K-514. 'Hagoromo'.
 320892. Col. No. K-516. 'Hakuturu'.

Kurume, Japan. Collected at Kurume Branch Horticultural Experiment Station. Evergreen shrubs of Higo strain of camellias. Cuttings.

320893. Col. No. K-521. 'Hhakaku'.
 320894. Col. No. K-522. 'Yamato Nishiki'.
 320895. Col. No. K-523. 'Kamagaya'.

320896 to 320900.

From Korea. Plant material collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Maryland. Numbered June 22, 1967.

320896. FRAXINUS SIEBOLDIANA Blume Oleaceae.

Col. No. K-224. On Mt. Sokni, Chungong Pukto, growing in sandy soil with pine. Elevation 660 meters. Deciduous tree to 15 meters high. Leaves pinnately compound, graceful. Seedlings.

320897. HIBISCUS SYRIACUS L. Malvaceae. Shrub-althea.

Col. No. K-174. On grounds of Sericultural Experiment Station, Suwon. Deciduous shrub to 4 meters high. Flowers pink, petals fringed on tip, single. Cuttings.

320898. LILIUM LEICHTLINII var. MAXIMOWICZII (Regel) Baker Liliaceae.

Col. No. K-101. In swampy area near Taek Wal Yong Experiment Station, Kangwon-do. Elevation 780 meters. Bulbous perennial to 1 meter high. One to 2 flowers. Bulbs round. Underground, spreading stems up to 20 cm. Bulbs.

320899. STREPTOPUS STREPTOPOIDES (Ledeb.) Frye & Rigg. Liliaceae.

Col. No. K-136. In shady area along trail on Mt. Chiri, Cholla Nam-do. Elevation 1,350 meters. Fleshy rooted perennial. Fruit red, terminal. Stem internodes angled. Roots.

320900. WEIGELA SUBSESSILIS (Nakai) Bailey Caprifoliaceae.

Col. No. K-186. Kwang Kyo. At base of rocky knoll, growing on streambank. Deciduous shrub to 1 meter high. Light-colored foliage selection. Flowers not seen. Cuttings.

320901 to 320910.

From Japan. Plant material collected by E. G. Corbett and R. W. Lighty, agricultural explorers, Crops Research Division, United States Department of Agriculture, Beltsville, Maryland. Numbered June 22, 1967.

320901. WISTERIA sp. Leguminosae.

Col. No. K-528. 'Noda'. Plants purchased from nursery, Tokyo, Japan.

320902. WISTERIA sp.

Col. No. K-529. 'Doyou'. Plants purchased from nursery, Tokyo, Japan.

320901 to 320910—Continued320903. *WISTERIA* sp.

Col. No. K-530. 'Sakou'. Plants purchased from nursery, Tokyo, Japan.

320904. *WISTERIA* sp.

Col. No. K-531. 'Murasaki Kabitan'. Plants purchased from nursery, Tokyo, Japan.

320905. *WISTERIA* sp.

Col. No. K-532. 'Sirokaftan'. Plants purchased from nursery, Tokyo, Japan.

320906. *WISTERIA* sp.

Col. No. K-533. 'Sironoda'. Plants purchased from nursery, Tokyo, Japan.

320907. *WISTERIA* sp.

Col. No. K-534. 'Hagi'. Plants purchased from nursery, Tokyo, Japan.

320908. *WISTERIA* sp.

Col. No. K-535. 'Kyusyaku'. Plants purchased from nursery, Tokyo, Japan.

320909. *WISTERIA* sp.

Col. No. K-536. 'Itusai'. Plants purchased from nursery, Tokyo, Japan.

320910. *WISTERIA* sp.

Col. No. K-537. 'Nisiki'. Plants purchased from nursery, Tokyo, Japan.

320911 to 320915.

From Hungary. Seeds presented by A. Jánossy, National Institute of Agrobotany, Tápiozele. Received June 22, 1967.

320911. *ALIUUM CEPA* L. Liliaceae.

Onion.

'Ezustfehér'. Silver white.

320912. *APIUM GRAVEOLENS* L. Umbelliferae.

Celery.

'Hegyközi'. (tuber celery).

320913 and 320914. *BRASSICA OLERACEA* var. *CAPITATA* L. Cruciferae.

Cabbage.

320913. 'F-5'.

320914. 'F-8'.

320915. *BRASSICA OLERACEA* var. *VIRIDIS* L.

Collard.

'Fodroslevelü takarmánykel'.

320916 to 320957.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received June 22, 1967.

320916. *ABIES NEPHROLEPIS* (Trautv.) Maxim. Pinaceae.320917. *ABIES SIBIRICA* Ledeb.

Siberian fir.

320918. *BETULA HUMILIS* Schrank Betulaceae.320919. *BETULA MIDDENDORFFII* Trautv. & Mey. in Middend.320920. *BETULA PLATYPHYLLA* Sukatchev

Asian white birch.

320921. *HORDEUM DEFICIENS* Steud. Gramineae.

Deficient barley.

No. 18838. Origin Ethiopia.

320922 and 320923. *HORDEUM DISTICHON* L.

Two-rowed barley.

320922. No. 8687. Origin Ethiopia.

320916 to 320957—Continued

320922 and 320923—Continued

320923. No. 18828. Origin Ethiopia.

320924 to 320928. *HORDEUM DISTICHON* var. *PALMELLA* Harlan
Two-rowed barley.

320924. No. 19824. Origin Algeria.

320925. No. 5933. Origin Afghanistan.

320926. No. 19531. 'Esperance'. Origin Morocco.

320927. No. 19695. G-1571. Valdimir region.

320928. No. 17843. 'Omskij 13709'. Omsk region.

320929. *HORDEUM VULGARE* L. Common barley.
No. 18830. Origin Ethiopia.320930 to 320934. *HORDEUM VULGARE* var. *PALLIDUM* Seringe
Six-rowed barley.

320930. No. 5977. Origin Afghanistan.

320931. No. 16638. 'Dzau-Bapust'. Origin Tadjikistan.

320932. No. 16955. 'Falarinec'. Irkutsk region.

320933. No. 18469. 'Odesskij 17'. Odessa region.

320934. No. 19569. 'Fertodi 4'. Origin Hungary.

320935 to 320954. *LENS CULINARIS* Medic. Leguminosae. Lentil.

320935. K-6. Origin Iran.

320936. K-15. 'Daghestanica'. Daghestan.

320937. K-29. Origin Germany.

320938. K-244. Origin The Ukraine.

320939. K-331. Origin Tunisia.

320940. K-336. Origin Italy.

320941. K-359. Origin Ethiopia.

320942. K-383. Origin Afghanistan.

320943. K-419. Origin Afghanistan.

320944. K-436. Origin Algeria.

320945. K-487. Origin Bulgaria.

320946. K-612. Origin Palestine.

320947. K-1177. Origin Turkey.

320948. K-1831. Origin Azerbaijan.

320949. K-1834. 'Tadjikskaja 95'. Tadjikistan.

320950. K-1849. 'Astarakskaja Mestnaja'. Origin Armenia.

320951. K-1978. Origin India.

320952. K-2079. Origin Czechoslovakia.

320953. K-2086. 'Schwarze Linse' Origin East Germany.

320954. K-2101. 'Slovenian Krayoda'. Origin Hungary.

320955. *PICEA ABIES* (L.) Karst. Pinaceae. Norway spruce.320956. *PICEA OBOVATA* Ledeb. Siberian spruce.320957. *PINUS CEMBRA* L. Pinaceae. Swiss stone pine.

320958 to 320967. SESAMUM INDICUM L. Pedaliaceae. Sesame.

From Venezuela. Seeds presented by Estacion Experimental Araure, through Carlos J. Ortega, Agricultural Attache, American Embassy, Caracas. Received June 22, 1967.

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| 320958. 'Acarigua'. | 320963. 'Morada'. |
| 320959. 'Aceitera'. | 320964. 'Schulze'. |
| 320960. 'Caripucha'. | 320965. 'Venezuela 44'. |
| 320961. 'Glaucua'. | 320966. 'Venezuela 51'. |
| 320962. 'Inamar'. | 320967. 'Venezuela 52'. |

320968 to 320973.

From Hungary. Seeds received from E. Kurnick, Agriculture Research Institute, Iregszemcse and presented by National Institute of Agrobotany, Tapioszele. Received June 22, 1967.

- 320968 to 320971. PHASEOLUS VULGARIS L. Leguminosae. Common bean.**
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|----------------------------|--------------------|
| 320968. 'Iregi Juliska'. | Maturity 103 days. |
| 320969. 'Iregi Cardinal'. | Maturity 76 days. |
| 320970. 'Iregi Fullgreen'. | Maturity 80 days. |
| 320971. 'Iregi Wisconsin'. | Maturity 92 days. |

320972 and 320973. PISUM SATIVUM L. Leguminosae. Pea.

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|------------------------------|--------------------------------|
| 320972. 'Iregi sarga IP. 1'. | Fodder type. Maturity 79 days. |
| 320973. 'Iregi zold IP. 2'. | Fodder type. Maturity 83 days. |

320974 to 320992.

From Sierra Leone. Seeds presented by Botany Department, Fourah Bay College, Freetown. Received June 22, 1967.

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| 320974. CAJANUS CAJAN (L.) Millsp. | Leguminosae. | Pigeon-pea. |
| 320975. CALOPOGONIUM MUCUNOIDES Desv. | Leguminosae. | |
| 320976. CENTROSEMA PUBESCENS Benth. | Leguminosae. | |
| 320977. CLITORIA TERNATEA L. | Leguminosae. | Asian pigeonwings. |
| 320978. DIGITARIA ADSCENDENS (H.B.K.) Henr. | Gramineae. | |
| 320979. ERAGROSTIS LINEARIS (Schum. & Thonn.) Benth. | Gramineae. | |
| 320980. ERAGROSTIS TENELLA (L.) Beauv. ex Roem. & Schult. | | |
| 320981. ERAGROSTIS UNIOLOIDES Retz. ex Steud. | | Lovegrass. |
| 320982. ERAGROSTIS sp. | | |
| 320983. LEUCAENA LEUCOCEPHALA (Lam.) De Wit | Leguminosae. | Leadtree. |
| 320984. PANICUM BREVIFOLIUM L. | Gramineae. | |
| 320985. PANICUM sp. | | |
| 320986. PENNISETUM LEONIS Stapf & Hubb. | Gramineae. | |
| 320987. PENNISETUM SUBANGUSTUM (Schum.) Stapf & C. E. Hubbard | | |
| 320988. PHASEOLUS ADENANTHUS G. Meyer | Leguminosae. | |
| 320989. RHYNCHOSIA PYCNOSTACHYA (DC.) Meikle | Leguminosae. | |
| 320990. RHYNCHOSIA VIOLACEA K. Schum. | | |
| 320991. STYLOSANTHES ERECTA Beauv. | Leguminosae. | |
| 320992. VIGNA SINENSIS (Torner) Savi | Leguminosae. | |

- 320993.** CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**
From Canada. Seeds presented by Department of Agriculture, Research Station, Morden, Manitoba. Received June 22, 1967.
'Sungold'.
- 320994 to 321020.**
From Taiwan. Seeds presented by Taiwan Agricultural Research Institute, Taipei. Received June 27, 1967.
- 320994 to 320996.** APIUM GRAVEOLENS L. Umbelliferae. **Celery.**
320994. 'Hainan'. Ta Feng Seed Company.
320995. 'Huang Hsin Late'. Ta Feng Seed Company.
320996. 'Huang Hsin Medium Early'. Ta Feng Seed Company.
- 320997 to 321001.** BRASSICA OLERACEA var. BOTRYTIS L. Cruciferae. **Cauliflower.**
320997. 'Fengshan Early'. Nung Yu Seed Company.
320998. 'Fengshan Extra Early'. Nung Yu Seed Company.
320999. 'Fengshan Late'. Nung Yu Seed Company.
321000. 'Fengshan Medium Early'. Nung Yu Seed Company.
321001. 'Tainung No. 1'. Rich Farme Seed Company.
- 321002.** BRASSICA OLERACEA var. CAPITATA L. **Cabbage.**
'Taiwan Early'. Taiwan Seed Service.
- 321003.** CAPSICUM ANNUUM L. Solanaceae. **Pimento.**
'Goat's Horn'. Ta Feng Seed Company.
- 321004 and 321005.** CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**
321004. 'Nung Yu No. 2'. Nung Yu Seed Company.
321005. 'Tainan No. 2'. Taiwan Seed Service.
- 321006 to 321011.** CUCUMIS SATIVUS L. **Cucumber.**
321006. 'Fengyuan Green Skin'. Ta Feng Seed Company.
321007. 'Improved Green Skin'. Ta Feng Seed Company.
321008. 'Nanchi Black Spine'. Rich Farme Seed Company.
321009. 'Nanchi White Spine'. Rich Farme Seed Company.
321010. 'Nei Wu'. Rich Farme Seed Company.
321011. 'Taichung Mou Gua'. Ta Feng Seed Company.
- 321012 and 321013.** LACTUCA SATIVA L. Compositae. **Lettuce.**
321012. 'Native'. Ta Feng Seed Company.
321013. 'White Lettuce'. Rich Farme Seed Company.
- 321014 to 321016.** LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**
321014. 'Chu Yu'. Rich Farme Seed Company.
321015. 'Fengshan No. 51'. Nung Yu Seed Company.
321016. 'Persimmon Type'. Ta Feng Seed Company.
- 321017 and 321018.** SOLANUM MELONGENA L. Solanaceae. **Eggplant.**
321017. 'Fengyuan Purple'. Rich Farme Seed Company.
321018. 'Pingtung Long Red'. Nung Yu Seed Company.
- 321019 and 321020.** SPINACIA OLERACEA L. Chenopodiaceae. **Spinach.**
321019. 'Round Seeded'. Ta Fang Seed Company.
321020. 'Wushe Waka Maru'. Ta Feng Seed Company.

321021 to 321023.

From Sweden. Seeds presented by The Botanical Garden, Lund. Received June 27, 1967.

321021. *VACCINIUM OXYCOCCOS* L. Ericaceae. **Small cranberry.**
 321022. *VACCINIUM ULIGINOSUM* L. **Bog blueberry.**
 321023. *VACCINIUM VITIS-IDAEA* L. **Cowberry.**

321024. LATHYRUS ARTICULATUS ssp. **CLYMENUM** (Bris.) Maire
Leguminosae.

From the United States. Plants growing at Soil Conservation Service, Agricultural Research Center, Beltsville, Maryland. Original seed collected May 18, 1966, by R. L. Henry, Agency for International Development, Kentira, Morocco. Numbered June 27, 1967.

Plant to 8 feet high; flowers purple, 1 to 2 per raceme.

321025. LEUCAENA RETUSA Benth. Leguminosae.

From the United States. Seeds collected by Lloyd Spetzman, New Crops Research Branch, Plant Industry Station, Beltsville, Maryland. Received June 27, 1967.

Col. No. LS 348. Junction 90-163, Comstock, Val Verde County, Texas. Across road from Border Patrol Station. Thin limestone soil; thicket with mesquite, cacti, thorn scrub in swale. Shrub to 12 feet high, 1 inch diameter. Foliage pale green; flowers yellow balls to $\frac{3}{4}$ inch.

321026 and 321027. LYCOPERSICON ESCULENTUM Mill. Solana-
ceae. **Tomato.**

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received June 27, 1967.

Possibly resistant to bacterial canker.

321026. 'Anait 20'.
 321027. 'Budenovka 363/4'.

321028. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

From England. Seeds presented by L. A. Darby, Glasshouse Crops Research Institute, Littlehampton, Sussex. Received June 27, 1967.

'Baby Lea'.

321029 to 321037.

From Germany. Seeds presented by Institut for Pflanzenpathologic and Pflanzenschutz der Georg August Universitat, Gottingen. Received June 27, 1967.

321029 to 321033. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**

321029. Nr. LYC 128/66. 'Magnum Bonum'.
 321030. Nr. LYC 180/63. 'Pierette'.
 321031. Nr. LYC 284/64. 'Perfection'.
 321032. Nr. LYC 324/66. 'Resista'.
 321033. Nr. LYC 1276/64. 'Pierette'.

321034 to 321037. PHASEOLUS VULGARIS L. Leguminosae. **Common bean.**

321034. 'Famos'. Bush. True type.
 321035. 'Hilds Marona'.
 321036. 'Hilds Rapid'.
 321037. 'Sperling's Erato'. Bush Wax.

321038 and 321039. ZEA MAYS L. Gramineae. Corn.

From Hungary. Seeds presented by National Institute of Agrobotany, Tapioszele. Received June 28, 1967.

321038. No. 1513/1966. 'P4'. Four-rowed.

321039. No. 3129/1964. '4P'. Four-rowed.

321040 to 321071. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From the United States. Selections made at Regional Introduction Station, Geneva, N.Y. Numbered June 28, 1967.

321040. 4624B. Selection from P.I. 119778. Plant vigorous, indeterminate. Fruit flattened, lobed, dark red.

321041. G 11704S. Selection from P.I. 199016. Plant indeterminate, 80 days to first ripening. Fruit large, slightly oblate, firm, small core, 9 locules, average weight 218 grams.

321042. G 2166CGS. Bulked selections from P.I. 237137. Germination in 5 weeks at 10°C. Plant short, sturdy, bushy, indeterminate. Fruit variable in shape, mostly plum, good color, cracking, uneven ripening, separate easily from peduncle.

321043. G 8919CGS. Bulked selections from P.I. 255830. Germination in five weeks at 10°C. Plant indeterminate, medium early. Fruit mostly oblong plum 6.0 cm. by 2.6 cm. many two-lobed pepper shape.

321044. G 8929CGS. Bulked selections from P.I. 255840. Germination in five weeks at 10°C. Plant vigorous, indeterminate, medium early. Fruit nearly sessile, plum shape 5.5 cm. by 4.0 cm., 2 locules, good color throughout, juice dark red.

321045. G 8931S. Selection from P.I. 255842. Plants determinate. Fruit mostly plum shape, crack resistant, excellent color, uneven ripening, good set and yield, 80 days to ripening.

321046. G 8946S. Selection from P.I. 255857. Plant indeterminate, medium maturity. Fruit plum, small, excellent color, high acidity, uneven ripening. Resistant to late blight.

321047. G 9725S. Selection from P.I. 262162. Plant determinate, dwarf, compact, 84 days to first ripe fruit. Fruit 100 grams, good color, little cracking, uniform ripening, high yield.

321048. G 9808S. Selection from P.I. 262907. Plant indeterminate, 84 days to first ripening. Fruit 218 grams, slightly flat, thick walled, little cracking, good color, uniform ripening. Excellent set and yield.

321049. G 9809S. Selection from P.I. 262908. Plant indeterminate. Fruit flat globe 4.7 cm. by 6.0 cm., 8 locules, good internal color, little cracking.

321050. G 9811S. Selection from P.I. 262910. Plant indeterminate. Fruit small, long to oblong plum, paste type, flesh thick, uneven ripening.

321051. G 9915S. Selection from P.I. 262932. Plant determinate, open spreading. Fruit large, green base, no cracking, 73 days to ripening.

321052. G 10221S. Selection from P.I. 263720. Plant indeterminate. Fruit excellent external color, little cracking, uniform ripening, medium maturity, high set and yield.

321053. G 10387CGSA. Selection from P.I. 264336. Plant indeterminate. Fruit large, flat, medium green shoulder, red skin, depressed blossom end, corrugated, medium maturity. Germination in 5 weeks at 10 C.

321054. G 10387CGSB. Selection from P.I. 264336. Same as P.I. 321053 except for pink skin.

321040 to 321071—Continued

321055. G 3172. 'Globetrotter'. Brooks, Alberta, Canada. Plant determinate, 28 cm. high by 60 cm. wide. Fruit flat globe, 5 per cluster, 5.5 cm. by 8.5 cm., radial cracks, 11 locules. No blossom end rot or mosaic.
321056. G 3291. 'Conserva 1010'. M. Herb, Naples, Italy. Fruit flat globe, 12 per cluster, 3.5 cm. by 6.0 cm., 2 locules. No blossom end rot, susceptible to *Verticillium*.
321057. G 10706. 'Eastern States 24'. Eastern States Cooperative, West Springfield, Mass. Plant determinate, 53 cm. high by 116 cm. wide. Fruit 5 per cluster, flat globe, 7.0 cm. by 8.5 cm., 8 locules, excellent color inside and out, no cracking. Late, prolific.
321058. G 11095. 'Summer Sunrise'. Agricultural Experiment Station, Kingston, Rhode Island. Plant determinate, 50 cm. by 140 cm., leaves small. Fruit flat globe 6.5 cm. by 8.0 cm., 5 per cluster, 12 locules, blotchy ripening. Very prolific.
321059. G 11279. 'Rhode Island Early'. Plant indeterminate, 45 cm. high by 175 cm. wide, leaves small. Fruit globe 5.7 cm. deep by 6.6 cm. wide, 6 per cluster, 6 to 8 locules, excellent internal and external color. Very early.
321060. G 11906. 'Odessa'. Lake Odessa Canning Company, Lake Odessa, Mich. Plant indeterminate, 55 cm. high by 103 cm. wide, foliage dark green. Fruit deep globe 7.0 cm. by 5.0 cm., puffy, grooved, borne blossom end up, 5 per cluster, does not color in dark, even ripening. Persists on vine without rot.
321061. G 12515. 'Bounty' × 'Valiant'. Plant determinate, small. Fruit flat globe 5.1 cm. by 6.3 cm., 2 to 3 per cluster, 6 locules, flesh red, sweet. For mechanical harvesting.
321062. G 12536. 'Klein Early'. Plant indeterminate. Fruit color good, green and yellow, high acidity, 7.1 percent total solids.
321063. G 14378. 'Rosy Red'. T. O. Graham, University of Guelph, Guelph, Ontario, Canada. Plant semideterminate. Fruit color rosy red, peel clear, uniform ripening, crack resistant.
321064. G 14406. 'Kecskemeti 363'. Agricultural Experiment Institute of Duna Tiazakoz, Kecskemet, Hungary. Plant indeterminate.
321065. G 14421. 'South Australia Dwarf Red'. Arthur Yates and Company, Sydney, Australia. Plant indeterminate, brachytic.
321066. G 14422. 'Vine Red'. Vineland, Ontario, Canada.
321067. G 14423. 'Webb Special'. Vineland, Ontario, Canada. Plant indeterminate. Fruit uneven ripening, high pigment.
321068. G 14425. Arthur Yates and Company, Sydney, Australia through A. E. Kerr, Vineland, Ontario, Canada. Fruit nonuniform, leathery end, very late.
321069. G 14551. 'Novcerkasskij 416'. All-Union Institute of Plant Industry, Leningrad, Soviet Union, through L. H. Lyall, Ottawa, Canada. Plant indeterminate. Fruit flat globe 5.7 cm. by 8.3 cm., 8 to 9 locules around solid core, uneven ripening, early.
321070. G 14576. 'Micando'. Canada. Fruit oblate.
321071. G 14581. 'Pritehaid'. Canada. Plant indeterminate. Fruit oblate, 104.9 grams.
321072. GLYCINE WIGHTII (R. Grah. ex Wight & Arn.) Verdcourt
Leguminosae.

321072—Continued

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received June 28, 1967.

C.P.I. 25702. 'Cooper'.

321073 and 321074.

From Brazil. Seeds collected by B. V. Skvortzov, Instituto de Botanica, Caixa, 4005, Sao Paulo. Received June 28, 1967.

321073. LILIUM PHILIPPINENSE Baker Liliaceae. **Philippine lily.**
Large, white, late.

321074. MEROSTACHYS MULTIRAMEA Hackel Gramineae.
Tree of Brazilian bamboo from subtropical mountain forests of Sao Paulo. Fruiting once in 40 to 50 years. Stems to 15 meters.

321075 and 321076.

From Chile. Seeds presented by Carlos Junge, Quinta "Santa Cruz", Chillan Viejo. Received June 28, 1967.

321075. GOMORTEGA NITIDA Ruiz & Pav. Gomortegaceae.

321076. LAPAGERIA ROSEA Ruiz & Pav. Liliaceae. **Red Chile-bells.**

321077. LEUCAENA LEUCOCEPHALA (Lam.) De Wit Leguminosae.
Leadtree.

From Argentina. Seeds presented by Angel Marzocca, Instituto de Botanica Agrícola, Castelar. Received July 6, 1967.

From cultivated tree in local botanic garden.

321078 to 321111.

From Kenya. Seeds collected by C.E. Smith, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered July 10, 1967.

321078. CAPSICUM sp. Solanaceae.

Col. No. 4630. Market in Hoey's Bridge.

321079. CROTALARIA BREVIDENS var. PARVIFLORA (Bak. f.) Poll. Leguminosae.

Col. No. 4636. 'Kimiro'. Market in Kimilili.

321080 and 321081. DOLICHOS LABLAB L. Leguminosae. **Hyacinth-bean.**

321080. Col. No. 4588. 'Njahi'. Market in Meru.

321081. Col. No. 4641. Market in Thompson's Falls.

321082. DOMBEYA BURGESSIAE Gerrard Sterculiaceae.

Col. No. 4631. On road to Kitale 3 miles north of Hoey's Bridge. Shrub, spreading, to 2 meters high. Flowers white, dried petals persistent around capsules.

321083 to 321086. ELEUSINE CORACANA (L.) Gaertn. Gramineae. **Ragi.**

321083. Col. No. 4577. Market in Ladri on road to Kisumu.

321084. Col. No. 4583. 'Gall Luo'. Market in Kisumu.

321085. Col. No. 4590. 'Wimbi'. Market in Meru.

321086. Col. No. 4633. Market in Kimilili.

321087. PENNISETUM sp. Gramineae.

Col. No. 4586. 'Mwere'. Market in Meru.

321088. PHASEOLUS COCCINEUS L. Leguminosae. **Scarlet runner bean.**

Col. No. 4642. 'Noe'. Market in Thompson's Falls.

321078 to 321111—Continued

321089 to 321094. *PHASEOLUS VULGARIS* L. **Common bean.**

321089. Col. No. 4569. 'Maragwe'. Market in Gilgil.

321090. Col. No. 4582. 'Maragwe Oganda'. Market in Kisumu.

321091. Col. No. 4592. 'Bijanjero'. Market in Chiganda.

321092. Col. No. 4629. Market in Hoey's Bridge.

321093. Col. No. 4637. Market in Kimilili.

321094. Col. No. 4645. 'Bosha'. Market in Sagana.

321095. *PROTEA GAGUEDI* Gmel. Proteaceae.

Between Hoey's Bridge and Kitale on the Trans Nzoia Plains. Open scrub on red lateritic soil.

321096. *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**

Col. No. 4634. Market in Kimilili.

321097 to 321102. *SORGHUM BICOLOR* (L.) Moench Gramineae. **Kafircorn.**

321097. Col. No. 4578.

321098. Col. No. 4579. 'Andiwa'.

321099. Col. No. 4580.

321100. Col. No. 4581.

321101. Col. No. 4587. 'Mwea'. Market in Meru.

321102. Col. No. 4646. 'Muhia'. Market in Sagana.

321103. *TRIFOLIUM BURCHELLIANUM* var. *JOHNSTONII* (Oliv.) Gillett Leguminosae.

Col. No. 4567. Top of the Aberdares at Nyeri Chania Falls. Elevation 9,000 feet.

321104. *VERNONIA* sp. Compositae.

Col. No. 4608. Ruwenzori Mountains, Mubuku Valley ridges. Elevation 5,000 feet.

321105. *VERNONIA* sp.

Col. No. 4608a. Subcollection for comparison.

321106 and 321107. *VIGNA SINENSIS* (Torner) Savi Leguminosae.

321106. Col. No. 4584. Market in Kisumu.

321107. Col. No. 4635. Market in Kimilili.

321108 to 321111. *ZEA MAYS* L. Gramineae. **Corn.**

321108. Col. No. 4568. Market in Gilgil.

321109. Col. No. 4589. 'Mbembe'. Market in Meru.

321110. Col. No. 4639. From a cornfield, Mt. Elgon. Elevation 8,000 feet.

321111. Col. No. 4643. 'Mbembe'. Market in Thompson's Falls.

321112. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. **Sweetpotato.**

From Taiwan. Tubers presented by the Chiayi Branch Station, Taiwan Provincial Agricultural Experiment Station, Shantseting, Chiayi. Received July 10, 1967.

'Okinawa No. 100'.

321113 to 321124.

From Tanzania. Seeds collected by C. E. Smith, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received July 10, 1967.

321113. CAJANUS CAJAN (L.) Millsp. Leguminosae. **Pigeon-pea.**

Col. No. 4651. 'Mbaazi'. Market in Moshi.

321114. ELEUSINE CORACANA (L.) Gaertn. Gramineae. **Ragi.**

Col. No. 4655. 'Bege'. Market in Kiano.

321115. PHASEOLUS AUREUS Roxb. Leguminosae. **Mungbean.**

Col. No. 4648. 'Sholoko'. Market in Moshi.

321116 to 321123. PHASEOLUS VULGARIS L. **Common bean.**

Market in Moshi.

321116. Col. No. 4649. 'Belabela'.

321117. Col. No. 4650. 'Mrondo'.

321118. Col. No. 4652. 'Maharagi'.

321119. Col. No. 4654. 'Mahargi'.

Market in Kiano.

321120. Col. No. 4656. 'Mrondo'.

321121. Col. No. 4657. 'Sisi'.

321122. Col. No. 4658. 'Moono'.

321123. Col. No. 4659. 'Mrondo'. Market in Gishinda.

321124. VIGNA SINENSIS (Torner) Savi Leguminosae.

Col. No. 4653. 'Punde'. Market in Moshi.

321125 to 321141.

From Uganda. Seeds collected by C. E. Smith, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received July 10, 1967.

321125 to 321130. ELEUSINE CORACANA (L.) Gaertn. Gramineae. **Ragi.**

321125. Col. No. 4610. 'Buro'. Market in Karago.

Market in Mugusu.

321126. Col. No. 4613. 'Calo'.

321127. Col. No. 4614. 'Calo'.

321128. Col. No. 4615. 'Calo'.

321129. Col. No. 4616. 'Calo'.

321130. Col. No. 4620. 'Oburo'. Market in Fort Portal.

321131 to 321135. PHASEOLUS VULGARIS L. Leguminosae. **Common bean.**

321131. Col. No. 4611. 'Bihimba'. Market in Karago.

Market in Fort Portal.

321132. Col. No. 4619. 'Kajera'.

321133. Col. No. 4622. 'Bihimba'.

321134. Col. No. 4623-a. 'Bihimba'.

321135. Col. No. 4623-b. 'Bihimba'.

321136. SESAMUM INDICUM L. Pedaliaceae. **Sesame.**

Col. No. 4618. 'Machande'. Market in Fort Portal.

321137 to 321139. SORGHUM BICOLOR (L.) Moench Gramineae. **Kafir-corn.**

321112. IPOMOEA BATATAS (L.) Lam. Convolvulaceae.**321137 to 321139—Continued**

321137. Col. No. 4609. Market in Karago.

321138. Col. No. 4617. 'Mugusa'. Market in Mugusu. Malting type.

321139. Col. No. 4621. 'Omongusa'. Market in Fort Portal.

321140 and 321141. VIGNA SINENSIS (Torner) Savi Leguminosae.**Cowpea.**

321140. Col. No. 4625. 'Ntendigo'. Market in Mubuku.

321141. Col. No. 4628. Market in Tororo.

321142 to 321383. ORYZA SATIVA L. Gramineae.**Rice.**

From the Philippines. Seeds presented by the International Rice Research Institute, Los Banos, Laguna. Received July 12, 1967.

<i>Seed source</i>		<i>Selection No. and cross</i>
321142.	61976	IR334-17-1-3-1, (CP 231 × SLO-17)/2 × BPI-76.
321143.	61977	IR334-17-1-3-2, (CP 231 × SLO-17)/2 × BPI-76.
321144.	61978	IR334-17-1-3-3, (CP 231 × SLO-17)/2 × BPI-76.
321145.	66778	IR224-16-1-1-3, (CP 231 × SLO-17) × Dawn.
321146.	66781	IR224-16-1-3-2, (CP 231 × SLO-17) × Dawn.
321147.	66793	IR224-20-1-2-2, (CP 231 × SLO-17) × Dawn.
321148.	66798	IR224-20-3-2-1, (CP 231 × SLO-17) × Dawn.
321149.	66799	IR224-20-3-2-2, (CP 231 × SLO-17) × Dawn.
321150.	66801	IR224-20-3-2-3, (CP 231 × SLO-17) × Dawn.
321151.	66839	IR224-10-1-6-3-1, (CP 231 × SLO-17) × Dawn.
321152.	66843	IR224-10-1-6-5-1, (CP 231 × SLO-17) × Dawn.
321153.	66846	IR229-3-1-2-1, CI 9300 × Dawn.
321154.	66847	IR229-3-1-2-2, CI 9300 × Dawn.
321155.	66850	IR229-22-3-3-1, CI 9300 × Dawn.
321156.	66854	IR229-23-3-1-3, CI 9300 × Dawn.
321157.	66856	IR229-26-1-1-2, CI 9300 × Dawn.
321158.	66868	IR280-6-6-1-1, CI 9300/2 × Dawn.
321159.	66877	IR280-6-6-3-1, CI 9300/2 × Dawn.
321160.	66879	IR280-6-6-3-3, CI 9300/2 × Dawn.
321161.	67399	IR456-3-2-1, Dawn/2 × (CP231 × SLO-17).
321162.	67443	IR456-12-5-1, Dawn/2 × (CP231 × SLO-17).
321163.	67468	IR456-15-4-1, Dawn/2 × (CP 231 × SLO-17).
321164.	67471	IR456-15-6-1, Dawn/2 × (CP 231 × SLO-17):
321165.	67475	IR456-15-7-2, Dawn/2 × (CP 231 × SLO-17).
321166.	67509	IR456-18-4-1, Dawn/2 × (CP 231 × SLO-17).
321167.	67516	IR456-18-6-2, Dawn/2 × (CP 231 × SLO-17).
321168.	67526	IR456-18-11-2, Dawn/2 × (CP 231 × SLO-17).
321169.	68353	IR212-25-3-3-2, B572A3-47-15 × B5711A1-18-6.
321170.	72093	IR111-7-1-2-1, (CP 231 × SLO-17) × BPI-76.
321171.	72128	IR111-35-1-1-1, (CP 231 × SLO-17) × BPI-76.

321125 to 321141—Continued

<i>Seed source</i>		<i>Selection No. and cross</i>
321172.	72264	IR127-35-2-3-1, (CP 231 × SLO-17) × Sigadis.
321173.	72327	IR292-21-1-12-3, Sigadis × (CP 231 × SLO-17)/2.
321174.	72343	IR238-1-1-1-3, (CP 231 × SLO-17) × Nahng Mon S-4.
321175.	72346	IR238-1-2-2-3, (CP 231 × SLO-17) × Nahng Mon S-4.
321176.	72350	IR238-1-3-2-1, (CP 231 × SLO-17) × Nahng Mon S-4.
321177.	72354	IR238-1-3-3-2, (CP 231 × SLO-17) × Nahng Mon S-4.
321178.	72476	IR238-B-B-128-31, (CP 231 × SLO-17) × Nahng Mon S-4.
321179.	72574	IR238, (CP 231 × SLO-17) × Nahng Mon S-4.
321180.	72597	(CP 231 × SLO-17) × Nahng Mon S-4.
321181.	72608	(CP 231 × SLO-17) × Nahng Mon S-4.
321182.	72634	(CP 231 × SLO-17) × Nahng Mon S-4.
321183.	72658	IR238, (CP 231 × SLO-17) × Nahng Mon S-4.
321184.	72659	(CP 231 × SLO-17) × Nahng Mon S-4.
321185.	72674	IR238, (CP 231 × SLO-17) × Nahng Mon S-4.
321186.	72685	(CP 231 × SLO-17) × Nahng Mon S-4.
321187.	72718	IR238-21-2-1-1, (CP 231 × SLO-17) × Nahng Mon S-4.
321188.	72741	IR238-28-1-1-1, (CP 231 × SLO-17) × Nahng Mon S-4.
321189.	72743	IR238-28-1-1-3, (CP 231 × SLO-17) × Nahng Mon S-4.
321190.	72754	IR238-28-2-3-2, (CP 231 × SLO-17) × Nahng Mon S-4.
321191.	72808	IR238-28-1-5, (CP 231 × SLO-17) × Nahng Mon S-4.
321192.	72825	IR324-2-2-1-2, (CP 231 × SLO-17)/2 × Nahng Mon S-4.
321193.	72835	IR324-2-4-1-2, (CP 231 × SLO-17)/2 × Nahng Mon S-4.
321194.	72859	IR324-3-6-1-3, (CP 231 × SLO-17)/2 × Nahng Mon S-4.
321195.	72887	IR324-4-4-4-3-2, (CP 231 × SLO-17)/2 × Nahng Mon S-4.
321196.	72889	IR324-5-3-3-1, (CP 231 × SLO-17)/2 × Nahng Mon S-4.
321197.	72901	IR237-1-3-3-1, (CP 231 × SLO-17) × L. Yai 34.
321198.	72910	IR237-6-2-2-1, (CP 231 × SLO-17) × L. Yai 34.
321199.	72911	IR237-6-2-2-2, (CU 231 × SLO-17) × L. Yai 34.
321200.	72912	IR237-6-2-2-3, (CP 231 × SLO-17) × L. Yai 34.
321201.	72913	IR237-6-2-2-4, (CP 231 × SLO-17) × L. Yai 34.
321202.	72917	IR237-6-2-3-2, (CP 231 × SLO-17) × L. Yai 34.
321203.	73013	IR237-14-3-1-3, (CP 231 × SLO-17) × L. Yai 34.
321204.	73018	IR237-14-3-3-2, (CP 231 × SLO-17) × L. Yai 4.
321205.	73136	IR237-21-1, (CP 231 × SLO-17) × L. Yai 34.
321206.	73229	IR224-10-2-3-3-1, (CP 231 × SLO-17) × B505A1-28.
321207.	73231	IR224-10-2-3-3-3, (CP 231 × SLO-17) × B505A1-28.
321208.	73236	IR224-10-3-2-1-2, (CP 231 × SLO-17) × B505A1-28.

321142 to 321383—Continued

	<i>Seed source</i>	<i>Selection No. and cross</i>
321209.	73244	IR224-10-3-3-1-3, (CP 231 × SLO-17) × B505A1-28.
321210.	73248	IR224-10-3-3-3-1, (CP 231 × SLO-17) × B505A1-28.
321211.	73255	IR224-54-2-2-2, (CP 231 × SLO-17) × B505A1-28.
321212.	73261	IR224-54-3-3-1, (CP 231 × SLO-17) × B505A1-28.
321213.	74375	IR334-20-8-1, (CP 231 × SLO-17)/2 × BPI-76.
321214.	74409	IR336-8-1-3, B589A4-18-1/2 × BPI-76.
321215.	74415	IR334-3, (CP 231 × SLO-17)/2 × BPI-76.
321216.	74426	IR334-13, (CP 231 × SLO-17)/2 × BPI-76.
321217.	74427	IR334-14, (CP 231 × SLO-17)/2 × BPI-76.
321218.	74462	IR334-47, (CP 231 × SLO-17)/2 × BPI-76.
321219.	74470	IR334-55, (CP 231 × SLO-17)/2 × BPI-76.
321220.	74475	IR334-60, (CP 231 × SLO-17)/2 × BPI-76.
321221.	74599	IR478-3, (CP 231 × SLO-17) × Sukanandi.
321222.	74601	IR478-4, (CP 231 × SLO-17) × Sukanandi.
321223.	74605	IR478-8, (CP 231 × SLO-17) × Sukanandi.
321224.	74657	IR457-21, Dawn × [(CP 231 × SLO-17) × T(N)]
321225.	74681	IR457-43, Dawn × [(CP 231 × SLO-17) × T(N)]
321226.	74711	IR570-4, IR8-288-3 × ADT-27.
321227.	74724	IR570-16, IR8-288-3 × ADT-27.
321228.	74735	IR570-27, IR8-288-3 × ADT-27.
321229.	74738	IR570-30, IR8-288-3 × ADT-27.
321230.	74754	IR570-45, IR8-288-3 × ADT-27.
321231.	76545	IR329-6-5-2-2-2, Bluebelle/2 × L. Yai 34.
321232.	76546	IR329-6-5-2-2-3, Bluebelle/2 × L. Yai 34.
321233.	76553	IR329-6-5-3-3-3, Bluebelle/2 × L. Yai 34.
321234.	76554	IR329-6-5-3-3-5, Bluebelle/2 × L. Yai 34.
321235.	76568	IR329-12-3-2-1-1, Bluebelle/2 × L. Yai 34.
321236.	76569	IR329-12-3-2-1-2, Bluebelle/2 × L. Yai 34.
321237.	76570	IR329-12-3-2-2-1, Bluebelle/2 × L. Yai 34.
321238.	76571	IR329-12-3-2-2-3, Bluebelle/2 × L. Yai 34.
321239.	76572	IR329-12-3-2-2-4, Bluebelle/2 × L. Yai 34.
321240.	76573	IR329-12-3-2-2-5, Bluebelle/2 × L. Yai 34.
321241.	76574	IR329-12-3-2-3-2, Bluebelle/2 × L. Yai 34.
321242.	76576	IR329-12-3-2-3-4, Bluebelle/2 × L. Yai 34.
321243.	76578	IR329-12-3-4-2-2, Bluebelle/2 × L. Yai 34.
321244.	76579	IR329-12-3-4-2-3, Bluebelle/2 × L. Yai 34.
321245.	76590	IR329-12-3-5-3-1, Bluebelle/2 × L. Yai 34.
321246.	76595	IR329-12-3-6-1-5, Bluebelle/2 × L. Yai 34.
321247.	76598	IR329-12-3-6-2-5, Bluebelle/2 × L. Yai 34.
321248.	76676	IR329-23-1-1-2-1, Bluebelle/2 × L. Yai 34.
321249.	76679	IR329-23-1-1-2-4, Bluebelle/2 × Y. Yai 34.

321142 to 321383—Continued

	<i>Seed source</i>	<i>Selection No. and cross</i>
321250.	76683	IR329-23-1-1-3-2, Bluebelle/2 × L. Yai 34.
321251.	76685	IR329-23-1-1-3-4, Bluebelle/2 × L. Yai 34.
321252.	76695	Bluebelle/2 × L. Yai 34.
321253.	76702	IR329-23-1-3-3-6, Bluebelle/2 × L. Yai 34.
321254.	76725	IR329-1-3-1-3, Bluebelle/2 × L. Yai 34.
321255.	76777	Bluebelle, Bluebelle/2 × L. Yai 34.
321256.	76794	IR329-15-6-1-2, Bluebelle/2 × L. Yai 34.
321257.	76802	IR329-15-7-6-2, Bluebelle/2 × L. Yai 34.
321258.	76805	IR329-19-5-2-2, Bluebelle/2 × L. Yai 34.
321259.	76807	IR329-19-5-3-3, Bluebelle/2 × L. Yai 34.
321260.	76821	IR455-1-2-1-6, Bluebelle/3 × L. Yai 34.
321261.	76822	IR455-1-5-1-2, Bluebelle/3 × L. Yai 34.
321262.	76839	IR455-3-1-4-1, Bluebelle/3 × L. Yai 34.
321263.	76850	IR455-3-3-5-1, Bluebelle/3 × L. Yai 34.
321264.	76857	IR455-5-5-1-2, Bluebelle/3 × L. Yai 34.
321265.	76870	IR153-7-1-2-1, T(N)1 × Bluebelle.
321266.	76875	IR153-20-1-1-1, T(N)1 × Bluebelle.
321267.	76878	IR153-20-1-2-2, T(N)1 × Bluebelle.
321268.	76882	IR269-1-1-1-1, Bluebelle/2 × T(N)1.
321269.	76884	IR269-1-1-2-1, Bluebelle/2 × T(N)1.
321270.	76906	IR269-12-3-1-1, Bluebelle/2 × T(N)1.
321271.	76932	IR269-26-3-2-1, Bluebelle/2 × T(N)1.
321272.	76945	IR269-32-1-2-2, Bluebelle/2 × T(N)1.
321273.	76949	IR269-32-1-3-3, Bluebelle/2 × T(N)1.
321274.	76974	IR269-26-2-1-2-1, Bluebelle/2 × T(N)1.
321275.	77125	IR454-4-4-4-3-2, Bluebelle/4 × T(N)1.
321276.	77126	IR454-4-4-4-3-3, Bluebelle/4 × T(N)1.
321277.	7501	IR269-1-1, Bluebelle/2 × T(N)1.
321278.	7502	IR269-1-1-3, Bluebelle/2 × T(N)1.
321279.	7503	IR269-16-2-3-1, Bluebelle/2 × T(N)1.
321280.	7504	IR269-16-2-3-2, Bluebelle/2 × T(N)1.
321281.	7505	IR269-16-2-3-3, Bluebelle/2 × T(N)1.
321282.	7507	IR269-26-33-1, Bluebelle/2 × T(N)1.
321283.	7508	IR269-26-3-3-2, Bluebelle/2 × T(N)1.
321284.	7509	IR269-26-3-3-3, Bluebelle/2 × T(N)1.
321285.	7511	IR269-32-1-3, Bluebelle/2 × T(N)1.
321286.	7512	IR269-32-1-3-1, Bluebelle/2 × T(N)1.
321287.	7513	IR269-46-5-2, Bluebelle/2 × T(N)1.
321288.	7514	IR269-46-5-2-1, Bluebelle/2 × T(N)1.
321289.	7515	IR269-50-4-1, Bluebelle/2 × T(N)1.
321290.	7516	IR269-50-4-1-1, Bluebelle/2 × T(N)1.

321142 to 321383—Continued

	<i>Seed source</i>	<i>Selection No. and cross</i>
321291.	7524	IR404-1-1-6-3, Bluebelle/3 × T(N)1.
321292.	7526	IR404-1-2-2, Bluebelle/3 × T(N)1.
321293.	7528	IR404-1-2-2-3, Bluebelle/3 × T(N)1.
321294.	7529	IR404-1-3-1-1, Bluebelle/3 × T(N)1.
321295.	7531	IR404-1-3-1-3, Bluebelle/3 × T(N)1.
321296.	7532	IR404-1-3-2, Bluebelle/3 × T(N)1.
321297.	7533	IR404-1-3-2-1, Bluebelle/3 × T(N)1.
321298.	7535	IR404-1-3-2-3, Bluebelle/3 × T(N)1.
321299.	7536	IR404-1-3-11-1, Bluebelle/3 × T(N)1.
321300.	7537	IR404-1-4-8, Bluebelle/3 × T(N)1.
321301.	7538	IR404-1-4-8-1, Bluebelle/3 × T(N)1.
321302.	7539	IR404-1-4-8-2, Bluebelle/3 × T(N)1.
321303.	7540	IR404-1-8-2-3, Bluebelle/3 × T(N)1.
321304.	7541	IR404-1-4-8-3, Bluebelle/3 × T(N)1.
321305.	7542	IR404-1-9-3-1, Bluebelle/3 × T(N)1.
321306.	7543	IR404-1-9-3-3, Bluebelle/3 × T(N)1.
321307.	7544	IR404-3-2-3, Bluebelle/3 × T(N)1.
321308.	7545	IR404-3-2-7, Bluebelle/3 × T(N)1.
321309.	7546	IR404-3-2-7-1, Bluebelle/3 × T(N)1.
321310.	7547	IR404-3-2-7-2, Bluebelle/3 × T(N)1.
321311.	7549	IR404-6-2-8, Bluebelle/3 × T(N)1.
321312.	7551	IR404-6-2-8-2, Bluebelle/3 × T(N)1.
321313.	7552	IR404-6-3-10, Bluebelle/3 × T(N)1.
321314.	7553	IR404-6-3-10-1, Bluebelle/3 × T(N)1.
321315.	7554	IR404-6-3-10-2, Bluebelle/3 × T(N)1.
321316.	7556	IR404-6-16-2-1, Bluebelle/3 × T(N)1.
321317.	7559	IR329-6-5-2-1, Bluebelle/2 × L. Yai 34.
321318.	7561	IR239-10-4-2-1, Bluebelle/2 × L. Yai 34.
321319.	7562	IR329-15-3-2-2, Bluebelle/2 × L. Yai 34.
321320.	7563	IR329-15-3-2-3, Bluebelle/2 × L. Yai 34.
321321.	7564	IR329-15-3-2-4, Bluebelle/2 × L. Yai 34.
321322.	7565	IR329-15-4, Bluebelle/2 × L. Yai 34.
321323.	7566	IR329-16-4-2-1, Bluebelle/2 × L. Yai 34.
321324.	7567	IR329-23-4-3-2, Bluebelle/2 × L. Yai 34.
321325.	7568	IR481-2-8, L. Yai 34/2 × T(N)1.
321326.	7569	IR154-36-2, (CP 231 × SLO-17) × T(N)1.
321327.	7571	IR154-45-2-4-3, (CP 231 × SLO-17) × T(N)1.
321328.	7573	IR154-54-2-2, (CP 231 × SLO-17) × T(N)1.
321329.	7575	IR154-68-3-2, (CP 231 × SLO-17) × T(N)1.
321330.	7578	IR154-95-3-2, (CP 231 × SLO-17) × T(N)1.
321331.	7579	IR154-123-1-1-1, (CP 231 × SLO-17) × T(N)1.

321142 to 321383—Continued

	<i>Seed source</i>	<i>Selection No. and cross</i>
321332.	7580	IR157-61-3-3, L. Yai 34 × T(N)1.
321333.	7581	IR159-13-2-2, Basmati 370 × T(N)1.
321334.	7583	IR160-25-1-1, Nahng Mon S-4 × T(N)1.
321335.	7584	IR160-44-1-2, Nahng Mon S-4 × T(N)1.
321336.	7728	IR126-6-3-1, Bluebelle × Sigadis.
321337.	7730	IR127-2-2-9, (CP 231 × SLO-17) × Sigadis.
321338.	7731	IR127-35-2-3, (CP 231 × SLO-17) × Sigadis.
321339.	7733	IR140-136, (CP 231 × SLO-17) × Mas.
321340.	7735	IR181-2-2-1, L. Yai 34 × 81B-25.
321341.	7737	IR181-2-2-3, L. Yai 34 × 81B-25.
321342.	7747	IR224-10-2-3-3, (CP 231 × SLO-17) × Dawn.
321343.	7748	IR224-16-1, (CP 231 × SLO-17) × Dawn.
321344.	7751	IR237-13-2-2, (CP 231 × SLO-17) × L. Yai 34.
321345.	7752	IR237-13-2-3, (CP 231 × SLO-17) × L. Yai 34.
321346.	7754	IR237-14-2-3, (CP 231 × SLO-17) × L. Yai 34.
321347.	7755	IR237-20-3-3, (CP 231 × SLO-17) × L. Yai 34.
321348.	7756	IR237-21-1, (CP 231 × SLO-17) × L. Yai 34.
321349.	7763	IR238-36-3, (CP 231 × SLO-17) × Nahng Mon S-4.
321350.	7767	IR238-129-2, (CP 231 × SLO-17) × Nahng Mon S-4.
321351.	7770	IR238-149-2, (CP 231 × SLO-17) × Nahng Mon S-4.
321352.	7771	IR239-11-2, B581A6-545 × (CP 231 × SLO-17).
321353.	7772	IR239-112-1-1, B581A6-545 × (CP 231 × SLO-17).
321354.	7774	IR246-14-2-2, B581A6-545 × (Bbt. 50 × Jojutla).
321355.	7776	IR271-22-16-2, Dawn/2 × Sigadis.
321356.	7777	IR272-2-6-3, (CP 231 × SLO-17)/2 × Sigadis.
321357.	7778	IR272-4-1-2, (CP 231 × SLO-17)/2 × Sigadis.
321358.	7779	IR334-21-3, (CP 231 × SLO-17) × BPI-76.
321359.	7781	IR276-26-5-1, B581A6-545/2 × Peta.
321360.	7783	IR280-6-6-1, CI 9300/2 × Dawn.
321361.	7787	IR313-7-6-3, Dawn/2 × BPI-76.
321362.	7789	IR456-12-2, Dawn/2 × (CP 231 × SLO-17).
321363.	7818	IR52-18-7-2-3-2, BPI-76/2 × Kh. 68.
321364.	7837	IR66-61-1-1-2, CP 231 × Kh. 68.
321365.	7845	IR68-57-2-2-3, CP 231 × P.I. 215936.
321366.	7846	IR68-141-2-2, CP 231 × P.I. 215936.
321367.	7848	IR68-232-3-3, CP 231 × P.I. 215936.
321368.	7858	IR72-14-3-2-3, T(N)1 × Ch. 242.
321369.	7861	IR80-54-2-2, T. Vuot × P.I. 215936.
321370.	7864	IR83-71-1-2, T. Rotan × P.I. 215936.
321371.	7869	IR84-82-3-2-3, Peta × P.I. 215936.
321372.	7871	IR84-88-2-3-1, Peta × P.I. 215936.

321142 to 321383—Continued

	<i>Seed source</i>	<i>Selection No. and cross</i>
321373.	7874	IR188-4, CI 9545 × Kh. 68.
321374.	7877	IR193-60-1-3, B573A4-20 × PI 215936.
321375.	7879	IR198-16-2-2, (CP 231 × SLO-17) × P.I. 215936.
321376.	7881	IR198-36-1-1, (CP 231 × SLO-17) × P.I. 215936.
321377.	7883	Tokai Senbon × Basmati 370.
321378.	7884	Mo-R-500 × Nato.
321379.	7926	Belle Patna.
321380.	7927	Bluebelle.
321381.	7975	IR408-1-5-6-6, Peta/3 × Belle Patna.
321382.	7976	IR408-2-1-11-1, Peta/3 × Belle Patna.
321383.	8013	Peta × T(N)1, IR39-10.

321384 to 321386. ALLIUM CEPA L. Liliaceae. Onion.

From Rumania. Seeds presented by Institutul de Cercetari Horti-Viticole, Bucuresti-Baneasa. Numbered July 21, 1967.

321384. 'De Buzau'.
 321385. 'Spaniola'.
 321386. 'Stuttgarter'.

321387. CAPSICUM ANNUUM L. Solanaceae. Pimento.

From Thailand. Seeds presented by R. S. Mann, P. O. Box 29, Chiangmai. Numbered July 21, 1967.

Chiengdow area. Wild.

321388. TERAMNUS UNCINATUS (L.) Swartz Leguminosae.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Numbered July 24, 1967.

C.P.I. 25937. Received in 1959 via Department of Agriculture, Ilonga, Kilosa, Tanganyika.

321389. KOCHIA BREVIFOLIA R. Br. Chenopodiaceae.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Numbered July 24, 1967.

V. 184.

321390 to 321394.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Numbered July 24, 1967.

321390. GLYCINE FALCATA Benth. Leguminosae.
 C.Q. 537.

321391 and 321392. GLYCINE TABACINA Benth.

321391. S.C.S. 2132.

321392. S.C.S. 2139.

321393 and 321394. GLYCINE TOMENTELLA Hayata

321393. S.C.S. 2105.

321394. S.C.S. 1708.

321395 to 321397.

From Czechoslovakia. Seeds presented by the Central Research Institute for Plant Production, Praha 6-Ruzyne. Numbered July 24, 1967.

321395. *LOLIUM MULTIFLORUM* Lam. Gramineae. Italian ryegrass.
 321396. *LOLIUM MULTIFLORUM* Lam. Italian ryegrass.
 'Westerwold'.
 321397. *LOLIUM PERENNE* L. Perennial ryegrass.

321398 to 321417.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Original countries of origin as indicated. Numbered July 24, 1967.

321398. *ALYSICARPUS MONILIFER* DC. Leguminosae.
 C.P.I. 40612. Umm Higlig, Sudan.
 321399. *ANDROPOGON DISTACHYUS* L. Gramineae. Bluestem.
 C.P.I. 39894. Mt. Carmel, Israel.
 321400. *ARISTIDA CILIATA* Desf. Gramineae. Threawn grass.
 C.P.I. 39917. Near Dinona, Israel.
 321401. *ARISTIDA LANATA* Forsk.
 C.P.I. 39941. Western Negev, Israel.
 321402. *ARISTIDA* sp.
 C.P.I. 39885. Skikma Watershed Project, Israel.
 321403. *BRACHYPODIUM DISTACHYON* (L.) Beauv. Gramineae.
 C.P.I. 39895. Mt. Carmel, Israel.
 321404. *CENCHRUS CILIARIS* L. Gramineae. Buffelgrass.
 C.P.I. 40611. El Obeid, Sudan.
 321405. *DIGITARIA* sp. Gramineae.
 C.P.I. 40749. Mazrub, Sudan.
 321406. *HIPPOCREPIS UNISILICUOSA* L. Leguminosae.
 C.P.I. 39887. Skikma Watershed Project, Israel.
 321407. *ORYZOPSIS HOLCIFORMIS* (Bieb.) Hack. Gramineae. Ricegrass.
 C.P.I. 39918. Near Avarim, Israel.
 321408. *PANICUM TURGIDUM* Forsk. Gramineae.
 C.P.I. 40751. Bara, Sudan.
 321409. *PENNISETUM SPICATUM* (L.) Willd. Gramineae. Pearl millet.
 C.P.I. 40753. Gedaref, Sudan.
 321410. *PHALARIS AQUATICA* L. Gramineae. Large canarygrass.
 C.P.I. 39886. Skikma Watershed Project, Israel.
 321411. *PHLEUM SUBULATUM* (Savi) Aschers. & Graebn. Gramineae.
 C.P.I. 39898. Mt. Carmel, Israel.
 321412. *STIPAGROSTIS OBTUSA* Nees Gramineae.
 C.P.I. 40433. Republic of South Africa.
 321413. *STYLOSANTHES FRUTICOSA* (Retz.) Alston Leguminosae.
 C.P.I. 40615. El Obeid, Sudan.

321398 to 321417—Continued

321414. *TRIGONELLA ARABICA* Delile Leguminosae.
C.P.I. 39924. Israel.
321415. *ZORNIA BRASILIENSIS* Vog. Leguminosae.
C.P.I. 34754. Legume garden, IRI Matao, Brazil.
321416. *ZORNIA DIPHYLLA* (L.) Pers.
C.P.I. 34941. Legume garden, IRI Matao, Brazil.
321417. *ZORNIA* sp.
C.P.I. 34759. Valinhos-Sao Paulo road, Brazil.

321418 to 321466.

From the United States. Seeds collected in 1966 by J. M. J. de Wet, Department of Botany and Plant Pathology, Oklahoma State University, Stillwater, Okla. Numbered July 24, 1967.

- 321418 to 321421. *BOTHRIOCHLOA ALTA* (Hitchc.) Henr. Gramineae.
Collected in Texas.
321418. Col. No. 3692. In protected field along Interstate 35, 17 miles north of Waco.
321419. Col. No. 3693. Five miles south of Temple.
321420. Col. No. 3697. In open field 13 miles south of Austin city limits.
321421. Col. No. 3699. Open field on Interstate 35, two miles south of San Marcos.
- 321422 to 321432. *BOTHRIOCHLOA BARBINODIS* (Lag.) Herter
Collected in Texas.
321422. Col. No. 3708. Open field as weed in San Antonio.
321423. Col. No. 3709. Open field as weed in San Antonio.
321424. Col. No. 3712. On U. S. 81, 16 miles south of Lytle.
321425. Col. No. 3717. Fourteen miles south of Pearsall.
321426. Col. No. 3720. Weed along road, 10 miles south of Cotulla.
321427. Col. No. 3856. Twenty-three miles north of Laredo.
321428. Col. No. 3862. Five miles northwest of Brackettville.
321429. Col. No. 3863. One mile northwest of Sanderson.
321430. Col. No. 3865. Seventeen miles northwest of Fort Stockton.
321431. Col. No. 3866. Twenty-three miles northwest of Pecos.
321432. Col. No. 3874. One mile northeast of Texico.
- 321433 to 321436. *BOTHRIOCHLOA EDWARDSIANA* (Gould) L. R. Parodi
Collected in Texas.
321433. Col. No. 3701. Open field along Interstate 35, 2 miles south of San Marcos.
321434. Col. No. 3707. Weed in open field in San Antonio.
321435. Col. No. 3710. Weed in open field in San Antonio.
321436. Col. No. 3719. Two miles east of Cotulla, La Salle County.
- 321437 to 321445. *BOTHRIOCHLOA HYBRIDA* (Gould) Gould
Collected in Texas.
321437. Col. No. 3704. Open field along ditch on Interstate 35, 14 miles south of San Marcos.
321438. Col. No. 3706. Weed in open field in San Antonio.

321418 to 321466—Continued

321439. Col. No. 3715. Weed; 24 miles south of Lytle.
 321440. Col. No. 3716. Fourteen miles south of Pearsall.
 321441. Col. No. 3718. Along Highway 97, two miles east of Cotulla.
 321442. Col. No. 3858. Eighteen miles south of Uvalde.
 321443. Col. No. 3860. Three miles west of Uvalde.
 321444. Col. No. 3868. Twenty-three miles northwest of Pecos.
 321445. Col. No. 3871. Carlsbad Caverns National Park, New Mexico.

321446 to 321466. *BOTHRIUCHLOA SACCHAROIDES* (Sw.) Rydb.

Silver bluestem.

Collected in Texas.

321446. Col. No. 3690. Hillsboro turnoff at intersection of State Highways 22 and 171 from Interstate 35 in abandoned cultivated field.
 321447. Col. No. 3691. In protected open field along Interstate 35, 17 miles north of Waco.
 321448. Col. No. 3694. Along Interstate 35, 5 miles south of Temple.
 321449. Col. No. 3695. Along Interstate 35, 2 miles north of Austin, in open field. Mixed, pitted and unpitted.
 321450. Col. No. 3696. Open field, two miles north of Austin.
 321451. Col. No. 3698. Open field along Interstate 35, 13 miles south of Austin city limits.
 321452. Col. No. 3700. Open field, on interstate 35, 2 miles south of San Marcos.
 321453. Col. No. 3702. Open field along Interstate 35, 13 miles south of San Marcos.
 321454. Col. No. 3705. Open field along ditch on Interstate 35, 23 miles south of San Marcos.
 321455. Col. No. 3711. Open field as weed in San Antonio.
 321456. Col. No. 3713. Sixteen miles south of Lytle.
 321457. Col. No. 3714. Weed along road, 24 miles south of Lytle.
 321458. Col. No. 3857. Eighty-five miles north-northwest of Laredo.
 321459. Col. No. 3859. Four miles south of Uvalde.
 321460. Col. No. 3861. Five miles northwest of Brackettville.
 321461. Col. No. 3864. One mile northwest of Sanderson.
 321462. Col. No. 3867. Twenty-three miles northwest of Pecos.
 321463. Col. No. 3873. One mile northeast of Texico.

Collected in New Mexico.

321464. Col. No. 3869. Twenty-nine miles southeast of Carlsbad.
 321465. Col. No. 3870. Carlsbad Caverns National Park.
 321466. Col. No. 3872. Five miles northeast of Roswell.

321467 to 321600.

From Mexico. Seeds collected in July and August 1966 by J. M. J. de Wet, and held by Department of Botany and Plant Pathology, Oklahoma State University, Stillwater, Okla. Numbered Aug. 3, 1967.

321467 and 321468. *ANDROPOGON CAMPII* Swallen Gramineae.

321467 to 321600—Continued**321467 and 321468—Continued**

321467. Col. No. 3732. Along wet ditch, 34 miles south of Saltillo, in mountains, on Highway 57, Nuevo Leon Province.
321468. Col. No. 3747. At Azteca motel, 122 miles south of San Luis Potosi.
- 321469 to 321474. ANDROPOGON HIRTIFLORUS (Nees) Kunth Bluestem.**
321469. Col. No. 3792. Common grass on open, rolling hills, in mountains, 11 miles northwest of Oaxaca.
321470. Col. No. 3793. Along Highway 190, 11 miles northwest of Oaxaca.
321471. Col. No. 3806. In valley 15 miles west of Orizaba, Veracruz.
321472. Col. No. 3826. Common along road; 2 miles east of Morelia, Michoacan.
321473. Col. No. 3834. Along road, 109 miles west northwest of Zomora, Jalisco.
321474. Col. No. 3850. On hill, open bush, 62 miles northeast of Durango.
- 321475. ANDROPOGON sp.**
Col. No. 3756. In open areas on edge of pine forest, 32 miles northeast of Tulancingo, Hidalgo.
- 321476. ANDROPOGON sp.**
Col. No. 3758. Among rocks on slope along Highway 130, 44 miles northeast of Tulancingo, Hidalgo.
- 321477. ANDROPOGON sp.**
Col. No. 3761. Weed along edges of sugarcane field, 80 miles southeast of Veracruz.
- 321478. ANDROPOGON sp.**
Col. No. 3768. One hundred sixteen miles south of Merida, Yucatan in Campeche state.
- 321479. ANDROPOGON sp.**
Col. No. 3769. Common roadside weed, 93 miles southwest of Campeche.
- 321480. ANDROPOGON sp.**
Col. No. 3771. Four miles east of Coatzacoalcos, Veracruz.
- 321481. ANDROPOGON sp.**
Col. No. 3772. Along swamp, 8 miles west of Coatzacoalcos, Veracruz.
- 321482. ANDROPOGON sp.**
Col. No. 3795. In open forest areas of rolling hills, in mountains, 26 miles northwest of Oaxaca.
- 321483. ANDROPOGON sp.**
Col. No. 3821. Forty-one miles west of Zitamano, Michoacan.
- 321484. ANDROPOGON sp.**
Col. No. 3822. Edge of standing water, 41 miles west of Zitamaro, Michoacan.
- 321485. ANDROPOGON sp.**
Col. No. 3824. Along wet ditch, 90 miles west of Zitacuaro, Michoacan.

321467 to 321600—Continued

321486. *ANDROPOGON* sp.

Col. No. 3851. On hill, open bush, 62 miles northeast of Durango.

321487 to 321539. *BOTHRIOCHLOA BARBINODIS* (Lag.) Herter Gramineae.

321487. Col. No. 3721. Common weed along Highway 85, 34 miles south of Nuevo Laredo, Tamaulipas.

321488. Col. No. 3723. Forty-nine miles south of Nuevo Laredo, Tamaulipas. Common roadside grass but not weedy.

321489. Col. No. 3724. Along Highway 85, 55 miles south of Nuevo Laredo, Tamaulipas.

321490. Col. No. 3728. Common weed along Highway 40, 24 miles west of Monterrey, Nuevo Leon.

321491. Col. No. 3730. Fourteen miles south of Saltillo, Coahuila.

321492. Col. No. 3731. In Nuevo Leon, but 34 miles south of Saltillo, Coahuila, in mountains as roadside weed.

321493. Col. No. 3733. Wet ditch along Highway 57, 72 miles south of Saltillo, Coahuila, in Nuevo Leon state.

321494. Col. No. 3737. Two miles north of Matehuala, San Luis Potosi.

321495. Col. No. 3739. Three miles south of San Luis Potosi.

321496. Col. No. 3740. Three miles south of San Luis Potosi.

321497. Col. No. 3741. On Highway 57, 19 miles south of San Luis Potosi.

321498. Col. No. 3742. Forty-three miles south of San Luis Potosi.

321499. Col. No. 3743. Forty-five miles south of San Luis Potosi.

321500. Col. No. 3744. Forty-five miles south of San Luis Potosi.

321501. Col. No. 3745. Eighty-six miles south of San Luis Potosi.

321502. Col. No. 3748. On south facing mountain slope, four miles southeast of Queretaro.

321503. Col. No. 3750. Wild on rocky hill, 6 miles southeast of San Juan del Rio, Queretaro, in Hidalgo.

321504. Col. No. 3751. On high plateau, 22 miles east of San Juan del Rio, Queretaro, in Hidalgo.

321505. Col. No. 3752. On dry open plain, 8 miles east of Huichapan, Hidalgo.

321506. Col. No. 3754. Common weed around and on Toltec capital ruins at Tula, Hidalgo.

321507. Col. No. 3755. Two miles east of Pachuca, Puebla.

321508. Col. No. 3775. In mountains, 90 miles northwest of Juchitan de Zaragoza, Oaxaca.

321509. Col. No. 3776. Ninety-four miles northwest of Juchitan de Zaragoza, Oaxaca.

321510. Col. No. 3777. On steep cliffs, 7 miles northwest of Totolapan, Oaxaca.

321511. Col. No. 3779. Along road, 15 miles northwest of Totolapan, Oaxaca.

321512. Col. No. 3780. Common weed along cultivated field edges, in mountain valley, 13 miles southeast of Oaxaca.

321513. Col. No. 3781. Near Mitla ruins, common weed along road in intensively farmed area.

321467 to 321600—Continued**321487 to 321539—Continued**

321514. Col. No. 3782. Along Highway 131, on rolling grassy hills, 10 miles south of Oaxaca.
321515. Col. No. 3787. Monte Alban, 4 miles west of Oaxaca.
321516. Col. No. 3789. Monte Alban, common grass among ruins, 4 miles west of Oaxaca.
321517. Col. No. 3791. Common grass on open, rolling hills, in mountains, 11 miles northwest of Oaxaca.
321518. Col. No. 3794. In open forest areas of rolling hills in mountains, 26 miles northwest of Oaxaca.
321519. Col. No. 3799. On top of high plateau, 51 miles northwest of Oaxaca.
321520. Col. No. 3802. In mountains, 42 miles northwest of Nochixtlan, Oaxaca.
321521. Col. No. 3803. Twenty miles northeast of Huajuapán de León, Oaxaca.
321522. Col. No. 3804. Seventeen kilometers southwest of Technuacan, Puebla on road from Huajuapán de León, Oaxaca.
321523. Col. No. 3805. In valley, 15 miles west of Orizaba, Veracruz.
321524. Col. No. 3809. Thirty-eight miles northwest of Technuacan, Puebla.
321525. Col. No. 3812. Common on toll road, 5 miles north of Puebla, on way to Mexico City.
321526. Col. No. 3813. Five miles northeast of Tlayacapan, Morelos, detouring from Atlatlahuacan to Yautepec.
321527. Col. No. 3814. Five miles northeast of Tlayacapan, Morelos, detouring from Atlatlahuacan to Yautepec.
321528. Col. No. 3835. In Jalisco state, 109 miles west, northwest of Zamora, Michoacan.
321529. Col. No. 3838. In Nayarit state, 91 miles northwest of Guadalajara, Jalisco.
321530. Col. No. 3842. In Durango state, common along road, 189 miles northeast of Mazatlan, Sinaloa.
321531. Col. No. 3843. In ditch along road, 15 miles northeast of Durango.
321532. Col. No. 3844. Twenty-four miles northeast of Durango.
321533. Col. No. 3845. Twenty-four miles northeast of Durango.
321534. Col. No. 3846. Twenty-four miles northeast of Durango on high plateau. Pilose not pitted.
321535. Col. No. 3847. Sixty-two miles northeast of Durango.
321536. Col. No. 3848. On little hill, open bush, 62 miles northeast of Durango. Nonpitted.
321537. Col. No. 3853. In dry hills, 116 miles northeast of Durango.
321538. Col. No. 3854. Weed in drainage ditch, in desert, 60 miles east of Torreon, Coahuila.
321539. Col. No. 3855. In dry creekbed, in desert, 122 miles east of Torreon, Coahuila.
- 321540 and 321541. BOTHRIODCHLOA PERTUSA (L.) A. Camus**

321467 to 321600—Continued**321540 and 321541—Continued**

321540. Col. No. 3762. At village Xtepen, Yucatan on Highway 180, 24 miles south of Merida.

321541. Col. No. 3763. On road to Merida, Yucatan, 5 miles north of Progreso.

321542 to 321562. BOTHRIOCHLOA SACCHAROIDES (Sw.) Rydb.**Silver bluestem.**

321542. Col. No. 3722. Weedy grass along Highway 85, 49 miles south of Nuevo Laredo, Tamaulipas.

321543. Col. No. 3725. Along Highway 85, 55 miles south of Nuevo Laredo, Tamaulipas.

321544. Col. No. 3726. On Highway 85, 6 miles south of Sabinas Hidalgo, Nuevo Leon.

321545. Col. No. 3727. On Highway 85, 22 miles south of Sabinas Hidalgo, Nuevo Leon.

321546. Col. No. 3729. In wet gully on Highway 57, 6 miles south of Saltillo, Coahuila.

321547. Col. No. 3738. On semidesert plain, 37 miles south of Matehuala, San Luis Potosi.

321548. Col. No. 3746. As a weed along Highway 57, in Guanajuato, 86 miles south of San Luis Potosi.

321549. Col. No. 3753. On open slope, 20 miles east of Huichapan, Hidalgo.

321550. Col. No. 3757. On east slope in open spots of pine forest, 41 miles northeast of Tulancingo, Hidalgo.

321551. Col. No. 3759. Coastal plains of Puebla, 2 miles south of Emilio Carranza, Veracruz.

321552. Col. No. 3767. Along road in open area of forest, 66 miles south of Merida, Yucatan.

321553. Col. No. 3786. Monte Alban, 4 miles west of Oaxaca.

321554. Col. No. 3790. Monte Alban ruins, 4 miles west of Oaxaca.

321555. Col. No. 3796. In open pine forest, 36 miles northwest of Oaxaca.

321556. Col. No. 3797. On mountain slopes, 46 miles northwest of Oaxaca.

321557. Col. No. 3807. Top of mountain pass in among oak forest, 25 miles southwest of Orizaba, Veracruz.

321558. Col. No. 3811. Common on toll road, 5 miles north of Puebla, on way to Mexico City.

321559. Col. No. 3819. Four miles west of Zitacuaro, Michoacan.

321560. Col. No. 3820. Thirty-three miles west of Zitacuaro, Michoacan.

321561. Col. No. 3827. Along road in mountains, 67 miles west of Morelia, Michoacan.

321562. Col. No. 3832. Dominant grass in open plain, 11 miles west of Zamora, Michoacan.

321563 to 321565. BOTHRIOCHLOA SCHLUMBERGHII (Fourn.) Henr.

321563. Col. No. 3818. Five miles north of Ciudad Ixtepan, Oaxaca.

321564. Col. No. 3830. In open field, 11 miles west of Zamora, Michoacan.

321467 to 321600—Continued

321563 to 321565—Continued

321565. Col. No. 3841. In Durango, 184 miles northeast of Mazatan, Sinaloa.

321566 to 321569. *BOTHRIOCHLOA WRIGHTII* (Hack.) Henr.

321566. Col. No. 3734. Weedy, along wet ditch, Highway 57, 72 miles south of Saltillo, Nuevo Leon.

321567. Col. No. 3735. In mountains, 143 miles south of Saltillo, Nuevo Leon.

321568. Col. No. 3736. South slope of mountain pass, 149 miles south of Saltillo, Nuevo Leon.

321569. Col. No. 3840. On high plateau in Durango, 178 miles northeast of Mazatlan, Sinaloa.

321570. *CYNODON DACTYLON* (L.) Pers. Gramineae. **Bermudagrass.**
Col. No. 3810. Thirty-eight miles northwest of Tehuacan, Puebla.

321571. *DICHANTHIUM* sp. Gramineae.
Col. No. 3784. Monte Alban ruins, 4 miles west of Oaxaca.

321572. *DICHANTHIUM* sp.
Col. No. 3785. Monte Alban ruins, 4 miles west of Oaxaca.

321573. *DICHANTHIUM* sp.
Col. No. 3788. Monte Alban, common grass among ruins, 4 miles west of Oaxaca.

321574. *DICHANTHIUM* sp.
Col. No. 3798. On rolling hills, 51 miles northwest of Oaxaca.

321575. *DICHANTHIUM* sp.
Col. No. 3800. On steep rocky slopes, 38 miles northwest of Nochixtlan, Oaxaca.

321576. *DICHANTHIUM* sp.
Col. No. 3801. In mountains, 42 miles northwest of Nochixtlan, Oaxaca.

321577. *DICHANTHIUM* sp.
Col. No. 3823. Along wet ditch, 90 miles west of Zitacuaro, Michoacan.

321578. *DICHANTHIUM* sp.
Col. No. 3825. Common along road, 2 miles east of Morelia, Michoacan.

321579. *DICHANTHIUM* sp.
Col. No. 3831. In open field along ditch, 11 miles west of Zamora, Michoacan.

321580. *DICHANTHIUM* sp.
Col. No. 3849. On hill, open bush, 62 miles northeast of Durango.

321581. *ECHINOCHLOA* sp. Gramineae.
Col. No. 3833. In Jalisco, Highway 15, north; along road in wet ditch, common in spots, 109 miles west, northwest of Zamora, Michoacan.

321582. *MUHLENBERGIA* sp. Gramineae.
Col. No. 3778. Along small ditch in mountains, 15 miles northwest of Totolapan, Oaxaca.

321583. *ORYZOPSIS* sp. Gramineae.
Col. No. 3808. Twenty-five southwest of Orizaba, Veracruz.

321467 to 321600—Continued

321584. *PHYSALIS* sp. Solonaceae.

Col. No. 3764. Chichen Itza ruins, 27 miles east of Valladolid, Yucatan. Annual, more or less hairy covering around berry.

321585. *STIPA* sp. Gramineae.

Col. No. 3749. Along little stream, 4 miles southeast of Queretaro.

321586. *STIPA* sp.

Col. No. 3760. On sandy bank near sea, 35 miles southeast of Veracruz, on Highway 180.

321587. *STIPA* sp.

Col. No. 3766. Among Uymal ruins in forest clearing, 47 miles south of Merida, Yucatan.

321588. *STIPA* sp.

Col. No. 3770. One mile east of Ciudad del Carmen, Campeche.

321589. *STIPA* sp.

Col. No. 3783. Native grass on rolling hills, 10 miles south of Oaxaca, Highway 131.

321590. *STIPA* sp.

Col. No. 3839. In Nayarit, 91 miles northwest of Guadalajara, Jalisco.

321591. *STIPA* sp.

Col. No. 3852. Seventy-eight miles northeast of Durango, among *Acacia* trees.

321592. *TRICHACHNE* sp. Gramineae.

Col. No. 3765. Among Uxmal ruins, 47 miles south of Merida, Yucatan.

321593. *TRIPSACUM* sp. Gramineae.

Col. No. 3773. In cleared areas of sparse pine forest, on slope, 59 miles northwest of Juchitan de Zaragoza, Oaxaca.

321594. *TRIPSACUM* sp.

Col. No. 3774. In cleared areas of sparse pine forest, on slope, 59 miles northwest of Juchitan de Zaragoza, Oaxaca.

321595. *TRIPSACUM* sp.

Col. No. 3815. On bare rock, where protected from grazing animals, 45 miles south of Cuernavaca, Morelos, in mountains.

321596. *TRIPSACUM* sp.

Col. No. 3816. Common among bamboo, 19 miles north of Taxaco de Alarcon, Guerrero.

321597. *TRIPSACUM* sp.

Col. No. 3817. Among rocky bamboo grove, 23 miles north of Taxaco de Alarcon, Guerrero.

321598. *TRIPSACUM* sp.

Col. No. 3828. Common along riverlet, 91 miles west of Morelia, Michoacan.

321599. *TRIPSACUM* sp.

Col. No. 3829. Along wet ditch, in mountains, 91 miles west of Morelia, Michoacan.

321600. *TRIPSACUM* sp.

Col. No. 3837. In Nayarit, 91 miles northwest of Guadalajara, Jalisco, among rocks.

321601 to 321627.

From Germany. Tubers presented by H. Ross, Max-Planck Institut für Züchtungsforschung, Köln-Vogelsang, Bundesrep. Countries of original collection as indicated. Numbered Aug. 7, 1967.

321601. SOLANUM CHANCAYENSE Ochoa Solanaceae.

EBS 2647. Collected by H. Ross, Sept. 24, 1965. Cerro Pativilca, Lima Province, Peru. Elevation 200 meters. $2n=24$.

321602. SOLANUM JUZEPCZUKII Bukas.

EBS 2659. Collected by M. Cardenas. Oruro, Bolivia. $2n=36$.

321603. SOLANUM MEDIANS Bitter

EBS 2641. Collected by H. Ross, September 16, 1965. Lomas de Atocongo, Lima Province, Peru. Elevation 300 meters. $2n=24$.

321604. SOLANUM MICRODONTUM Bitter

EBS 2636. Collected by Ana Maria Krueger, February, 1965. Incallayta, road Cochabamba to Santa Cruz, 150 km., Bolivia. Elevation 2,950 meters.

321605. SOLANUM SPARSIPILUM (Bitter) Juz. & Buk.

EBS 2658. Collected by M. Cardenas. Las Quadras near Cochabamba, Bolivia. $2n=24$. Received *S. ruiz-cebellosii* Card., a new species to be published by M. Cardenas.

321606 to 321625. SOLANUM TUBEROSUM L.

Potato.

321606. MPI 44.335/140. Origin *S. tuberosum* and *S. demissum*; very resistant to late blight.

321607. MPI 50.140/5. Origin *S. tuberosum*, *S. demissum*, *S. stoloniferum*. Resistant to late blight, leaf roll; immune viruses A and Y.

321608. MPI 54.4129/288. Same as P.I. 321607.

321609. MPI 55.957/6. Origin *S. tuberosum*, *S. demissum*, *S. stoloniferum*, *S. acaule*. Resistance same as P.I. 321607.

321610. MPI 55.957/24. Same as P.I. 321607 plus immunity to virus X.

321611. MPI 55.967/77. Origin *S. tuberosum*, *S. demissum*. Resistant to leaf roll and late blight.

321612. MPI 55.1002/83.

321613. MPI 55.101p.

321614. MPI 63.614/201. Origin *S. tuberosum* and *S. demissum*; very high dry matter; light yellow flesh.

321615. MPI 63.659/5. Same as P.I. 321614.

321616. 'Anett'. Early maturity, high dry matter content. Resistant to viruses A and Y, late blight and scab. Immunity to virus X from *S. acaule*.

321617. 'Antje'. (Received as 49.531/7).

321618. "Burmania". (A Dutch variety).

321619. 'Clivia'. Early maturity, good quality, high dry matter content. Resistant to viruses A and Y, late blight, scab; susceptible to leafroll.

321620. 'Cosima'. Late maturity, good quality, high dry matter, high yield.

321621. 'Feldeslohn'. Early maturity, resistant to virus Y, susceptible to A.

321622. 'Fina'. Early maturity, good quality, large tubers, low dry matter content. Resistant to scab; susceptible virus A and late blight.

321601 to 321627—Continued**321606 to 321625—Continued**

321623. 'Grata'. Early maturity. Resistant to late blight and scab; susceptible to virus Y.

321624. 'Hansa'. Early maturity, good quality. Susceptible to leaf roll.

321625. 'Saphir'. (Received as 50.501/23). Immunity to X virus from *S. acuale*.

321626. SOLANUM sp.

EBS 2638. Collected by H. Ross, Sept. 2, 1965. Infiernillo near Atiquipa, Arequipa Province, Peru. Elevation 800 meters. $2n=36$. Thought to be a new species.

321627. SOLANUM sp.

EBS 2639. Collected by H. Ross, Sept. 3, 1965. Malpaso near Camana, Arequipa Province, Peru. Elevation 900 meters. Identical with EBS 2638 P.I. 321626. $2n=36$.

321628 to 321630. BIXA ORELLANA L. Bixaceae. Annatto.

From Puerto Rico. Seeds presented by Department of Agronomy and Soils, Agricultural Experiment Station, Mayaguez. Numbered Aug. 15, 1967.

Selections made for resistance to powdery mildew, leaf spot and twig dieback.

321628. P.R. No. 1.

321629. P.R. No. 2.

321630. P.R. No. 5.

321631. LEUCAENA RETUSA Benth. Leguminosae.

From the United States. Seeds presented by Soil Conservation Service, Plant Materials Center, Knox City, Tex. Numbered Aug. 15, 1967.

Seeds collected at Sonora, Tex.

321632. TRIPSACUM LAXUM Nash Gramineae. Guatemala gamagrass.

From Costa Rica. Seeds presented by Jorge Mata Pacheco, Ministerio de Agricultura y Ganaderia, San Jose. Numbered Aug. 15, 1967.

El Alto Experiment Station.

321633 to 321635.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Numbered Aug. 15, 1967.

321633. *BASSIA BRACHYPTERA* R. H. Anders. Chenopodiaceae.
C 814.

321634. *BASSIA ERIACANTHA* R. H. Anders.
C 801.

321635. *BASSIA LANICUSPIS* F. v. M.
C 591.

321636. TECOMA STANS (L.) Juss. ex H.B.K. Bignoniaceae. Florida trumpetbush.

From Kenya. Seeds collected by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Aug. 15, 1967.

Col. No. 8180. Shrub, to 6 feet high; flowers large, yellow, attractive.

321637 to 321640.

From the United States. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Aug. 15, 1967.

321637 and 321638. PHASEOLUS ACUTIFOLIUS var. LATIFOLIUS G. F. Freeman
Leguminosae. Tepary bean.

Collected in 1966 at Papago Indian Reservation, Chukut Kuk District, Newfields, Ariz.

321637. Col. No. 22314. Local market. Cultivated; large, yellow.

321638. Col. No. 22315. Cultivated; white.

321639. PHASEOLUS VULGARIS L. Common bean.

Col. No. 22317. Collected in 1966 at Papago Indian Reservation Chukut District, Newfields, Ariz. Modern pinto; cultivated.

321640. VIGNA SINENSIS (Torner) Savi Leguminosae. Cowpea.

Col. No. 22316. Collected in 1966 at Papago Indian Reservation, Chukut Kuk District, Newfields, Ariz. Cultivated; white with black eye.

321641 and 321642. LINUM USITATISSIMUM L. Linaceae.
Common flax.

From Poland. Seeds presented by Professor A. Listowski, Institute of Soil Science and Cultivated Plants, Pulawy. Numbered Aug. 16, 1967.

321641. Line 1.

321642. Line 3.

321643 and 321644.

From Portugal. Seeds presented by J. J. Paiva Caldeira, Estacao de Melhoramento de Plantas, Elvas. Numbered Aug. 16, 1967.

321643. SECALE CEREALE L. Gramineae. Rye.
No. 5043. Centeio de Alto.

321644. TRITICUM AESTIVUM L. Gramineae.
No. 2619. Barbela, 0248.

321645 to 321653.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Numbered Aug. 16, 1967.

321645 to 321651. ORYZA SATIVA L. Gramineae. Rice.

321645. No. 3668. 'Vros 3716'. Krasnodar territory.

321646. No. 3670. 'Vros 213'. Krasnodar territory.

321647. No. 3767. 'Severnyi B-101'. Kuibyshev region.

321648. No. 3942. 'Krasnoarmiskii 313'. Krasnodar territory.

321649. No. 3946. 'Alakulskii'. Kazakhstan.

321650. No. 4429. 'Skorospelyi 8'. Krasnodar territory.

321651. No. 4573. 'Sputnik'. Primorsk Province.

321652. ORYZA SATIVA var. ERYTHROCEROS Koern.

No. 491. 'Bukhiado'. Primorsk Province.

321653. ORYZA SATIVA var. VULGARIS Koke.

No. 2276. Primorsk Province.

321654 to 321656.

From Kenya. Seeds collected by E. C. Smith, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Aug. 16, 1967.

321654. *VERNONIA* sp. Compositae.

Col. No. 4570. In Kericho across road from entrance drive to Tea Hotel. Elevation 8,500 feet. Roadside weed to 1.25 meters high. Flowers blue. Habitat on heavy red soil.

321655. *VERNONIA* sp.

Col. No. 4585. 'Machegene'. Near Meri on road to Meri Game Reserve. To 1.5 meters high. Flowers clear blue.

321656. *VERNONIA* sp.

Col. No. 4591. Five miles from Meri on Nanyuki road. Shrub to 2 meters high. Flowers blue.

321657 to 321664.

From Uganda. Seeds collected by E. C. Smith, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Aug. 16, 1967.

321657. *VERNONIA* sp. Compositae.

Col. No. 4604. Mubuku Valley in upper edge of elephant grass area in valley bottom. To 4 feet high. Phyllaries with white tips; flowers lilac.

321658. *VERNONIA* sp.

Col. No. 4612. Six miles from Fort Portal along road to Semliki area in pastures. Elevation 5,500 feet. To 2 meters high. Phyllary tips scarious. Flowers lilac and blue.

321659. *VERNONIA* sp.

Col. No. 4624. On road south from Fort Portal 4.5 miles at Tombs of Karambi. Elevation 5,500 feet. To 2 meters high. Flowers two shades of lilac.

321660. *VERNONIA* sp.

Col. No. 4626. South of Mubuku on Kasese road, 45 miles south of Fort Portal. Elevation 3,500 feet. In open grassland area maintained by fire. To 6 feet high. Flowers white or pale lilac.

321661. *VERNONIA* sp.

Col. No. 4627. About 40 miles from Mbararo on road from Kasese. To 4 meters high. Bracts white tipped. Flowers pale lilac.

321662. *VERNONIA* sp.

Col. No. 4632. Five miles north of Hoey's Bridge on road to Kitale. Common in area. To 3.5 meters high. Bracts white. Flowers lilac.

321663. *VERNONIA* sp.

Col. No. 4638. Mt. Elgon Forest. Elevation 7,800 feet. In opening in bamboo. To 4 meters high. Bracts shining white. Flowers lilac.

321664. *VERNONIA* sp.

Col. No. 4640. Mt. Elgon Forest. Elevation 7,500 feet. Along forest road. To 4 meters high. Bracts green. Flowers blue.

321665 to 321669.

From Zambia. Seeds collected by D. B. Fanshawe, Division of Forest Research, P. O. Box 879, Kitwe. Numbered Aug. 16, 1967.

321665. *VERNONIA HOFFMANNIANA* Hutch & Dalz. Compositae.

321665 to 321669—Continued

Col. No. F10040. Perennial herb with thickened rootstock. All parts sparsely white coarse puberulus; leaves sessile dentate; flowers complete purplish in large heads, solitary or in terminal corymbs; phyllaries green, acicular, pilose.

321666. *VERNONIA INCOMPTA* S. Moore

321667. *VERNONIA LUEMBENSIS* De Wild. & Muschler

321668. *VERNONIA PURPUREA* Sch. Bip. ex Walp.

Col. No. F10062. Stout herb of miombo woodland to 3 feet high. Leaves subsessile, scabrous, chartaceous; flowers complete, purple in terminal heads, solitary or in loose panicle; phyllaries scarious, aristate with green midrib.

321669. *VERNONIA* sp.

Col. No. F10018.

321670 to 321672.

From Kenya. Seeds collected by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Aug. 18, 1967.

321670. *DIGITARIA SCALARUM* (Schweinf.) Chiov. Gramineae.

Col. No. 8222. Along Magadi road 0.3 mile south of junction with Langata road at west boundary of Game Park. Elevation 5,900 feet. Black soil.

321671. *MILLETTIA DURA* Dunn Leguminosae.

From tree on grounds of East African Herbarium, Nairobi.

321672. *SETARIA TRINERVIA* Stapf Gramineae.

Col. No. 8186. Central Province, Thika District, along Thika road 0.5 mile northeast of Ruiru. Elevation 5,000 feet. Growing by roadside. To 2 feet high.

321673 and 321674.

From Tanzania. Seeds collected by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Aug. 18, 1967.

321673. *CENCHRUS CILIARIS* L. Gramineae.

Buffelgrass.

Purchased in native market in Tanga.

321674. *SORGHUM BICOLOR* (L.) Moench Gramineae.

Purchased in native market in Tanga.

321675 to 321682.

From France. Seeds presented by L. Clause Seed Company, S.A., Bretigny-sur-Orge. Received Aug. 18, 1967.

321675. *DACTYLIS GLOMERATA* L. Gramineae.

Orchardgrass.

'Daprime'. Late.

321676. *FESTUCA ARUNDINACEA* Schreb. Gramineae.

Tall fescue.

'A.2'.

321677. *FESTUCA PRATENSIS* Huds.

Meadow fescue.

'Daphne'. Early.

321678. *FESTUCA RUBRA* L.

Red fescue.

'Bergere'.

321675 to 321682—Continued

321679. *LOLIUM MULTIFLORUM* Lam. Gramineae. **Italian ryegrass.**
'Itaque'.

321680 and 321681. *LOLIUM PERENNE* L. **Perennial ryegrass.**

321680. 'Raidor'. Early.

321681. 'Real'. Medium late.

321682. *PHLEUM PRATENSE* L. Gramineae. **Common timothy.**
'32-4'.

321683. *RHODODENDRON HIRSUTUM* L. Ericaceae. **Garland rhododendron.**

From Switzerland. Seeds presented by Jardin Botanique de Geneva, 192, Route de Lausanne, Geneva. Received Aug. 18, 1967.

321684. *VERNONIA* sp. Compositae.

From Kenya. Seeds collected by C. E. Smith, Jr., botanist, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Feb. 28, 1967. Numbered Aug. 21, 1967.

Col. No. 4644. 'Kinkyuy-Morerangamba'. Near Nabani Forest Station, Mt. Kenya. Elevation 7,500 feet. Plant 2 meters high. Bracts green, flowers blue.

321685 to 321687.

From France. Seeds presented by Institut de Recherches du Coton et des Textiles Exotiques, Paris. Received Aug. 25, 1967.

321685. *GOSSYPIUM BARBADENSE* L. Malvaceae. **Sea-island cotton.**
'Mono'. A commercial variety grown in Togo.

321686. *GOSSYPIUM HIRSUTUM* L. **Upland cotton.**
R 122. Marie Galante.

321687. *GOSSYPIUM PUNCTATUM* Schum. & Thonn. **Cotton.**
R 120.

321688 and 321689. *DAUCUS CAROTA* L. Umbelliferae. **Carrot.**

From Japan. Seeds presented by Fujita Seed Company, Osaka. Received Aug. 25, 1967.

321688. 'Kintoki'. Early strain.

321689. 'Kintoki'. Regular strain.

321690 to 321693.

From Australia. Seeds presented by Department of Agriculture, Jarrah Road, South Perth. Received Sept. 1, 1967.

321690 and 321691. *AVENA SATIVA* L. Gramineae. **Common oats.**
321690. 'Irwin'.

321691. 'Swan'.

321692 and 321693. *HORDEUM VULGARE* L. Gramineae. **Common barley.**
321692. 'Bussell'.

321693. 'Dampier'.

321694 to 321696. *AVENA SATIVA* L. Gramineae. **Common oats.**

From New Zealand. Seeds presented by G. M. Wright, Department of Scientific and Industrial Research, Crops Research Division, Private Bag, Christchurch. Received Sept. 1, 1967.

321694 to 321696—Continued

321694. 'Amuri'.

321695. 'Mapua 65'.

321696. 'Mapua 70'.

321697 to 321708.

From England. Seeds presented by University of Reading, Reading, Berkshire. Code numbers refer to 1966 Reading University Catalog. Received Sept. 1, 1967.

321697. *HORDEUM VULGARE* L. Gramineae. **Common barley.**
No. 162. 'Chevalier'.

321698. *AEGILOPS* sp. Gramineae.
No. 181.

321699 to 321707. *TRITICUM AESTIVUM* L. Gramineae.

321699. No. 213. 'Carleton'.

321700. No. 221. 'Kolben II'.

321701. No. 222. 'Masterpiece'.

321702. No. 225. 'Nursi'.

321703. No. 227. 'Pilot'.

321704. No. 231. 'Steel'.

321705. No. 234. 'Welcome'.

321706. No. 236. 'Wilma'.

321707. No. 237. 'Yeoman'.

321708. *TRITICUM* × *SECALE* **Triticale.**
No. 238. *T. aestivum* × *S. cereale*. Chromosome 8x.

321709 to 321714. NICOTIANA TABACUM L. Solanaceae. Tobacco.

From Bulgaria. Seeds presented by D. K. Tsikov, Institute of Genetics and Plant Breeding, Sofia. Received Sept. 1, 1967.

321709. 'Djebel 174'.

321710. 'Djebel 359'.

321711. 'Haskowo 2002'.

321712. 'Ostrolist B-27-47'.

321713. 'Sekirka'.

321714. 'Trapesund'.

321715 to 321726.

From Argentina. Seeds collected by Rae Natalie Goodall, Botanist, Tierra del Fuego. Received Sept. 1, 1967.

321715. *ANEMONE MULTIFIDA* Poir. Ranunculaceae.

Col. No. R.N.G. 468. 'Brown Chico'. Estancia Harberton, near beach.

321716. *BACCHARIS PATAGONICA* Hook. & Arn. Compositae.

Col. No. R.N.G. 789. Pasture, Harberton. Dry and damp hillsides. Flowers and seeds.

321717. *BERBERIS BUXIFOLIA* Lam. ex Pers. Berberidaceae.

Magellan barberry.

Col. No. R.N.G. 780. Near bridge over Laskifashej River, Estancia Harberton.

321715 to 321726—Continued

321718. *CHILIOTRICHUM DIFFUSUM* (Forst.) Kuntze Compositae.

Col. No. R.N.G. 775. Harberton Bay. Few flowers remaining, mostly seed.

321719. *DRIMYS WINTERI* Forst. Magnoliaceae. **Wintersbark drimys.**

Col. No. R.N.G. 803. Harberton Park, Estancia Harberton. Trees large. Fruit from fall flowers small; fruit from earlier flowers ripe. Flesh of seeds slippery, mealy, waxy feel, spicy odor.

321720. *EMBOTHRIUM COCCINEUM* Forst. Proteaceae. **Notro.**

Col. No. R.N.G. 777. Harberton peninsula. Seeds and late flowering coincide.

321721. *ENARGEA MARGINATA* Gaertn. Liliaceae.

Harberton peninsula.

321722. *ERIGERON* sp. Compositae.

Col. No. R.N.G. 701. Estancia Harberton, Cutalataca airfield. Near beach, in grass and sand. Most plants in seed, few late flowers.

321723. *MAYTENUS MAGELLANICUS* (Lam.) Hook. f. Celastraceae.

Col. No. R.N.G. 807. 'Lena dura'. Yahgan-Aiku-liush. Harberton Park, Estancia Harberton. Most seeds fallen, plants in bud.

321724. *NOTHOFAGUS ANTARCTICA* (Forst.) Oerst. Fagaceae.

Col. No. R.N.G. 776. Harberton peninsula. Seeds ripe. Large tree with fungi in hollow.

321725. *NOTHOFAGUS BETULOIDES* (Mirb.) Oerst.

Col. No. R.N.G. 805. Large tree above cemetery, Harberton Park, Estancia Harberton.

321726. *NOTHOFAGUS PUMILIO* (Poepp. & Endl.) Krasser

Col. No. R.N.G. 804. Large tree below cemetery near fence, Harberton Park. One of few trees with fruit.

321727. *PHASEOLUS VULGARIS* L. Leguminosae. **Common bean.**

From Italy. Seeds presented by the Rome Provincial Agrarian Society through A. Paul Danyluk, Assistant Agricultural Attache, American Embassy, Rome. Received Sept. 5, 1967.

'Cannellini Bean'.

321728 to 321745.

From Afghanistan. Seeds collected by L. P. Reitz, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Sept. 6, 1967.

321728 to 321742. *TRITICUM AESTIVUM* L. Gramineae.

Lebanon Selections.

321728. No. 1. From Bolan Research Farm, Bost. Awnleted, white chaff, spring type.

321729. No. 2. Collected in Kohistan, east of Charikar. Local variety, brown and white chaff, bearded.

Collected in Charikar area.

321730. No. 3. Awnleted, brown chaff.

321731. No. 4. Brown chaff, bearded.

321732. No. 5. White, bearded.

Collected in Kabul River gorge.

321728 to 321745—Continued**321728 to 321742—Continued**

321733. No. 6. Brown chaff, No. 4 awn, lax.

321734. No. 7. White chaff, awned, lax.

321735. No. 8. White dense, pubescent, awned.

Contributed by Ministry of Agriculture, Kabul.

321736. 'Aoba Komugi'. From Japan. Awneleted, white chaff.

321737. 'Elephant Tooth'. (Candan-i-Phil). Afghan wheat.

321738. 'Khosti'. From Paktia.

321739. 'Landani'. Afghan wheat.

321740. 'Maouri'. Afghan wheat.

321741. 'Paktia'. From Paktia.

321742. 'Sia Khosha'. Afghan wheat.

321743 to 321745. TRITICUM DURUM Desf.

Durum wheat.

321743. 'Camel Tooth'. (Shatur-i-Dandar). Afghan wheat. Contributed by Ministry of Agriculture, Kabul. Extra long grain.

321744. 'Zafrani'. Afghan wheat. Contributed by Ministry of Agriculture, Kabul.

321745. Lebanon selection. Collected in Charikar area. Brown, bearded, pubescent.

321746 and 321747.

From Pakistan. Seeds presented by Anwar Hussain, Agricultural Research Institute, Lyallpur. Numbered Sept. 6, 1967.

321746. *SESBANIA BISPINOSA* (Jacq.) W. F. Wight Leguminosae.

321747. *SESBANIA SPECIOSA* Taub.

321748. GOSSYPIOIDES KIRKII (Mast.) Skovsted Malvaceae.

From Tanzania. Seeds presented by S. A. Robertson, Ministry of Agriculture, Forest and Wildlife, Central Research Center, Ilonga, Private Bag, Kilosa. Numbered Sept. 6, 1967.

Germination test with no result, but not with scarified seed.

321749. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From India. Seeds presented by Division of Plant Introduction, Indian Agricultural Research Institute, New Delhi. Numbered Sept. 6, 1967.

I.C. 13636. 'Red Cherry'.

321750 to 321875.

From Yugoslavia. Seeds presented by Professor Vinko Sadar, Biotechnical Faculty, University of Ljubljana, Ljubljana, under PL 480 Project E30-CR-2. Numbered Sept. 6, 1967.

321750 to 321767. *AVENA SATIVA* L. Gramineae.

Common oats.

321750. No. 18. 'Astor'.

321751. No. 10. 'Austriaweib'.

321752. No. 4. 'Auswuchsfester Gelb'.

321753. No. 3. 'Condor'.

321754. No. 13. 'Flamingstreue'.

321755. No. 14. 'Flamingsweib II'.

321750 to 321875—Continued**321750 to 321767—Continued**

321756. No. 15. 'Goldschatz'.
 321757. No. 2. 'NOS Nackthafer'.
 321758. No. 9. 'Probstdorfer Gelb'.
 321759. No. 1. 'SP-2 Ambrus II'.
 321760. No. 8. 'SP-45 Krnice 18'.
 321761. No. 6. 'SP-63 Osilnica'.
 321762. No. 16. 'SP-69 Planina 13'.
 321763. No. 7. 'SP-138 Zice 40'.
 321764. No. 12. 'SP-143 Bis 46'.
 321765. No. 11. 'SP-152 Cepinci 64'.
 321766. No. 5. 'SP-214 Muhabran 4'.
 321767. No. 17. 'SP-307 Zitence 37'.

321768 to 321855. HORDEUM DISTICHON L. Gramineae. Two-rowed barley.

321768. No. 37. 'Abed Rigel'.
 321769. No. 36. 'Adliker'.
 321770. No. 78. 'Akme Futter'.
 321771. No. 54. 'Allasch'.
 321772. No. 77. 'Amsel'.
 321773. No. 79. 'Anatolski Jable'.
 321774. No. 30. 'Antalek'.
 321775. No. 18. 'Balder'.
 321776. No. 58. 'Bankuti Koray'.
 321777. No. 3. 'Barin'.
 321778. No. 57. 'Branisovicky'.
 321779. No. 39. 'Cambrinus'.
 321780. No. 53. 'Ceres'.
 321781. No. 59. 'Celechovicky'.
 321782. No. 8. 'Delta'.
 321783. No. 63. 'Donaria'.
 321784. No. 6. 'Eclat'.
 321785. No. 60. 'Ekonom'.
 321786. No. 50. 'Elsa'.
 321787. No. 55. 'Emir'.
 321788. No. 4. 'Eura'.
 321789. No. 85. 'E 351 Jable'.
 321790. No. 86. 'E 353 Jable'.
 321791. No. 65. 'Ereya-Frigga'.
 321792. No. 51. 'Georgine'.
 321793. No. 61. 'Godolloi'.
 321794. No. 25. 'Heines Hanna'.
 321795. No. 41. 'Hella'.

321750 to 321875—Continued**321768 to 321855—Continued**

- 321796. No. 29. 'Herta'.
- 321797. No. 56. 'Impala'.
- 321798. No. 34. 'Ingrid'.
- 321799. No. 1. 'Irnbut'.
- 321800. No. 21. 'Isaria'.
- 321801. No. 23. 'Isaria Nova'.
- 321802. No. 2. 'Jable 26'.
- 321803. No. 19. 'Juliane'.
- 321804. No. 14. 'Kazimierski'.
- 321805. No. 22. 'Kenia'.
- 321806. No. 7. 'Kocherperle'.
- 321807. No. 76. 'Krimskij 301'.
- 321808. No. 16. 'Lichtis Maia'.
- 321809. No. 99. 'Martha'.
- 321810. No. 67. 'Martonvasari FB-102'.
- 321811. No. 68. 'Martonvasari-104'.
- 321812. No. 24. 'MGZ'.
- 321813. No. 43. 'Minerva'.
- 321814. No. 9. 'Nota 9'.
- 321815. No. 75. 'Odesskij 97'.
- 321816. No. 70. 'Odeskij 14'.
- 321817. No. 20. 'Osijeski 20'.
- 321818. No. 42. 'Pallas'.
- 321819. No. 35. 'Paula'.
- 321820. No. 100. 'Perfekta'.
- 321821. No. 31. 'Peroga 3'.
- 321822. No. 28. 'Plena'.
- 321823. No. 62. 'Proskoveuv hanacky'.
- 321824. No. 98. 'Quantum'.
- 321825. No. 32. 'Sandomierski'.
- 321826. No. 45. 'Skrzeszowski'.
- 321827. No. 27. 'SP-1 Adlesici'.
- 321828. No. 81. 'SP-5 Biljana 13'.
- 321829. No. 13. 'SP-9 Cerovec 32'.
- 321830. No. 48. 'SP-13 Brezje 4'.
- 321831. No. 71. 'SP-25 Dramlje 41'.
- 321832. No. 66. 'SP-40 Koritnice 10'.
- 321833. No. 74. 'SP-41 Kostabona 17'.
- 321834. No. 52. 'SP-45 Krnice 18'.
- 321835. No. 82. 'SP-49 Lepa njiva'.
- 321836. No. 17. 'SP-52 Lokavec 19'

321750 to 321875—Continued**321768 to 321855—Continued**

321837. No. 64. 'SP-62 Oresje 5'.
 321838. No. 49. 'SP-69 Planina 13'.
 321839. No. 69. 'SP-76 Podnanos 66'.
 321840. No. 11. 'SP-120 Trojica 8'.
 321841. No. 72. 'SP-122 Vel. Brdo 28'.
 321842. No. 10. 'SP-138 Zice 40'.
 321843. No. 44. 'SP-173 Hoc. Pohorje'.
 321844. No. 26. 'SP-200 Kupljenik 7'.
 321845. No. 33. 'SP-246 Retje 89'.
 321846. No. 73. 'SP-357 Srednja vas'.
 321847. No. 40. 'Una'.
 321848. No. 5. 'Union'.
 321849. No. 12. 'Str. Franken III'.
 321850. No. 46. 'Vada'.
 321851. No. 15. 'Violetta III'.
 321852. No. 38. 'Volla'.
 321853. No. 47. 'Wisa'.
 321854. No. 96. 'Zagreb 48'.
 321855. No. 97. 'Zeocriton Zagreb'.

321856 to 321867. HORDEUM VULGARE L.**Common barley.**

321856. No. 89. 'Amrigschwander'.
 321857. No. 88. 'Bigo'.
 321858. No. 90. 'E + 13 Jable'.
 321859. No. 87. 'Japonski 424'.
 321860. No. 83. 'No. 16 Tirolska'.
 321861. No. 84. 'No. 18 Tirolska'.
 321862. No. 95. 'Orazio I'.
 321863. No. 94. 'Pumpervielzeilige'.
 321864. No. 91. 'SP-170 Grabonos 15'.
 321865. No. 93. 'SP-220 Okrog 9'.
 321866. No. 92. 'SP-271 Strojna'.
 321867. No. 80. Mixed undefined SP-282.

321868. SECALE CEREALE L. Gramineae.**Rye.**

- No. 1. 'Karlshuldska'.

321869 to 321875. TRITICUM AESTIVUM L. Gramineae.

321869. No. 6. 'Heines Kolben'.
 321870. No. 5. 'Karntner Fruher'.
 321871. No. 4. 'Karntneer Grannen'.
 321872. No. 7. 'Opal'.
 321873. No. 1. 'SP-246 Retje 89'.
 321874. No. 3. 'Strubes Grano'.
 321875. No. 2. 'Tiroler Dinkel'.

321876 to 322031. TRITICUM AESTIVUM L. Gramineae.

From Turkey. Seeds presented by J. G. Ross, University of Nebraska Contract, Ataturk University, Erzurum. Numbered Sept. 7, 1967.

321876. B-840.	321916. B-885.
321877. B-846.	321917. B-886.
321878. B-847.	321918. B-887.
321879. B-848.	321919. B-888.
321880. B-849.	321920. B-889.
321881. B-850.	321921. B-890.
321882. B-851.	321922. B-891.
321883. B-852.	321923. B-893.
321884. B-853.	321924. B-895.
321885. B-854.	321925. B-896.
321886. B-855.	321926. B-897.
321887. B-856.	321927. B-898.
321888. B-857.	321928. B-899.
321889. B-858.	321929. B-900.
321890. B-859.	321930. B-901.
321891. B-860.	321931. B-902.
321892. B-861.	321932. B-903.
321893. B-862.	321933. B-904.
321894. B-863.	321934. B-905.
321895. B-864.	321935. B-906.
321896. B-865.	321936. B-907.
321897. B-866.	321937. B-909.
321898. B-867.	321938. B-910.
321899. B-868.	321939. B-911.
321900. B-869.	321940. B-912.
321901. B-870.	321941. B-913.
321902. B-871.	321942. B-914.
321903. B-872.	321943. B-915.
321904. B-873.	321944. B-916.
321905. B-874.	321945. B-917.
321906. B-875.	321946. B-918.
321907. B-876.	321947. B-919.
321908. B-877.	321948. B-920.
321909. B-878.	321949. B-921.
321910. B-879.	321950. B-922.
321911. B-880.	321951. B-923.
321912. B-881.	321952. B-924.
321913. B-882.	321953. B-925.
321914. B-883.	321954. B-926.
321915. B-884.	321955. B-927.

321876 to 322031—Continued

321956.	B-928.	321994.	B-970.
321957.	B-929.	321995.	B-971.
321958.	B-930.	321996.	B-973.
321959.	B-932.	321997.	B-974.
321960.	B-933.	321998.	B-975.
321961.	B-934.	321999.	B-976.
321962.	B-936.	322000.	B-977.
321963.	B-937.	322001.	B-978.
321964.	B-938.	322002.	B-980.
321965.	B-939.	322003.	B-981.
321966.	B-940.	322004.	B-982.
321967.	B-941.	322005.	B-983.
321968.	B-942.	322006.	B-984.
321969.	B-943.	322007.	B-985.
321970.	B-944.	322008.	B-986.
321971.	B-945.	322009.	B-987.
321972.	B-946.	322010.	B-988.
321973.	B-947.	322011.	B-989.
321974.	B-949.	322012.	B-990.
321975.	B-950.	322013.	B-991.
321976.	B-951.	322014.	B-992.
321977.	B-952.	322015.	B-993.
321978.	B-953.	322016.	B-994.
321979.	B-954.	322017.	B-995.
321980.	B-955.	322018.	B-996.
321981.	B-956.	322019.	B-997.
321982.	B-957.	322020.	B-998.
321983.	B-958.	322021.	B-999.
321984.	B-959.	322022.	B-1000.
321985.	B-960.	322023.	B-1001.
321986.	B-961.	322024.	B-1002.
321987.	B-962.	322025.	B-1003.
321988.	B-963.	322026.	B-1004.
321989.	B-964.	322027.	B-1005.
321990.	B-965.	322028.	B-1006.
321991.	B-966.	322029.	B-1007.
321992.	B-967.	322030.	B-1008.
321993.	B-968.	322031.	B-1015.

322032 to 322036.

From France. Cuttings presented by the Station Recherches Viticoles, Department of Agriculture, Angers. Received Sept. 7, 1967.

322032 and 322033. *MALUS SYLVESTRIS* Mill. Rosaceae.

Apple.

322032 to 322036—Continued

322032. 'Reinette Da Mana'.

322033. 'Rose de Benaugé'.

322034 to 322036. PYRUS COMMUNIS L. Rosaceae.

Common pear.

322034. 'Belle Guerandaise'.

322035. 'Le Nain Vert'.

322036. 'President Heron'.

322037 to 322280. TRITICUM AESTIVUM L. Gramineae.

From India. Seeds presented by the Division of Plant Introduction, Indian
Agricultural Research Institute, New Delhi. Received Sept. 7, 1967.

322037. WC 359.	322069. WC 412.
322038. WC 381.	322070. WC 413.
322039. WC 382.	322071. WC 414.
322040. WC 383.	322072. WC 415.
322041. WC 384.	322073. WC 416.
322042. WC 385.	322074. WC 417.
322043. WC 386.	322075. WC 418.
322044. WC 387.	322076. WC 419.
322045. WC 388.	322077. WC 420.
322046. WC 389.	322078. WC 421.
322047. WC 390.	322079. WC 422.
322048. WC 391.	322080. WC 423.
322049. WC 392.	322081. WC 424.
322050. WC 393.	322082. WC 425.
322051. WC 394.	322083. WC 426.
322052. WC 395.	322084. WC 427.
322053. WC 396.	322085. WC 428.
322054. WC 397.	322086. WC 430.
322055. WC 398.	322087. WC 431.
322056. WC 399.	322088. WC 432.
322057. WC 400.	322089. WC 433.
322058. WC 401.	322090. WC 434.
322059. WC 402.	322091. WC 435.
322060. WC 403.	322092. WC 436.
322061. WC 404.	322093. WC 437.
322062. WC 405.	322094. WC 438.
322063. WC 406.	322095. WC 440.
322064. WC 407.	322096. WC 441.
322065. WC 408.	322097. WC 442.
322066. WC 409.	322098. WC 443.
322067. WC 410.	322099. WC 444.
322068. WC 411.	322100. WC 445.

322037 to 322280—Continued

322101. WC 446.	322143. WC 488.
322102. WC 447.	322144. WC 489.
322103. WC 448.	322145. WC 490.
322104. WC 449.	322146. WC 491.
322105. WC 450.	322147. WC 492.
322106. WC 451.	322148. WC 493.
322107. WC 452.	322149. WC 494.
322108. WC 453.	322150. WC 495.
322109. WC 454.	322151. WC 496.
322110. WC 455.	322152. WC 497.
322111. WC 456.	322153. WC 498.
322112. WC 457.	322154. WC 499.
322113. WC 458.	322155. WC 500.
322114. WC 459.	322156. WC 501.
322115. WC 460.	322157. WC 502.
322116. WC 461.	322158. WC 503.
322117. WC 462.	322159. WC 504.
322118. WC 463.	322160. WC 505.
322119. WC 464.	322161. WC 506.
322120. WC 465.	322162. WC 507.
322121. WC 466.	322163. WC 508.
322122. WC 467.	322164. WC 509.
322123. WC 468.	322165. WC 510.
322124. WC 469.	322166. WC 511.
322125. WC 470.	322167. WC 512.
322126. WC 471.	322168. WC 513.
322127. WC 472.	322169. WC 514.
322128. WC 473.	322170. WC 516.
322129. WC 474.	322171. WC 517.
322130. WC 475.	322172. WC 518.
322131. WC 476.	322173. WC 519.
322132. WC 477.	322174. WC 520.
322133. WC 478.	322175. WC 521.
322134. WC 479.	322176. WC 522.
322135. WC 480.	322177. WC 523.
322136. WC 481.	322178. WC 524.
322137. WC 482.	322179. WC 525.
322138. WC 483.	322180. WC 526.
322139. WC 484.	322181. WC 527.
322140. WC 485.	322182. WC 528.
322141. WC 486.	322183. WC 529.
322142. WC 487.	322184. WC 530.

322037 to 322280—Continued

322185.	WC 531.	322227.	E 4871.
322186.	WC 532.	322228.	E 5477.
322187.	WC 533.	322229.	Sona 227.
322188.	WC 534.	322230.	Hyb.11.
322189.	WC 535.	322231.	RS 31-1.
322190.	WC 536.	322232.	NP 201.
322191.	WC 537.	322233.	NP 202.
322192.	WC 538.	322234.	NP 412.
322193.	WC 539.	322235.	NP 710.
322194.	WC 540.	322236.	NP 718.
322195.	WC 541.	322237.	NP 718 A.
322196.	WC 542.	322238.	NP 720.
322197.	WC 543.	322239.	NP 737.
322198.	WC 544.	322240.	NP 745.
322199.	WC 545.	322241.	NP 755.
322200.	WC 546.	322242.	NP 758.
322201.	WC 547.	322243.	NP 761.
322202.	WC 548.	322244.	NP 770.
322203.	WC 549.	322245.	NP 771.
322204.	WC 550.	322246.	NP 775.
322205.	WC 551.	322247.	NP 783.
322206.	WC 553.	322248.	NP 784.
322207.	WC 554.	322249.	NP 785.
322208.	WC 555.	322250.	NP 786.
322209.	WC 655.	322251.	NP 789.
322210.	WC 684.	322252.	NP 790.
322211.	WC 720.	322253.	NP 792.
322212.	WC 722.	322254.	NP 796.
322213.	WC 821.	322255.	NP 797.
322214.	WC 847.	322256.	NP 798.
322215.	WC 887.	322257.	NP 809.
322216.	WC 891.	322258.	NP 823.
322217.	WC 947.	322259.	NP 824.
322218.	WC 950.	322260.	NP 825.
322219.	WC 963.	322261.	NP 835.
322220.	WC 991.	322262.	NP 836.
322221.	WC 998.	322263.	NP 846.
322222.	WC 1001.	322264.	NP 848.
322223.	WC 1006.	322265.	NP 851.
322224.	WC 1017.	322266.	NP 852.
322225.	WC 1073 A.	322267.	NP 862.
322226.	WC 1073 B.	322268.	NP 863.

322037 to 322280—Continued

- | | |
|-----------------|--|
| 322269. NP 865. | 322276. C 591. |
| 322270. NP 875. | 322277. K 65. |
| 322271. NP 876. | 322278. K 68. |
| 322272. NP 880. | 322279. <i>Kharchia</i> (Salinity resistant). |
| 322273. C 281. | 322280. <i>Kharchia</i> 65 (Resistant to stem and stripe rusts). |
| 322274. C 303. | Pedigree: EG 953 × <i>Kharchia</i> . |
| 322275. C 306. | |

322281. *TREVIA NUDIFLORA* L. Euphorbiaceae.

From India. Seeds presented by S. N. Mitra, Botanical Survey of India, Indian Botanic Garden, Calcutta. Received Sept. 8, 1967.

322282 to 322286.

From the Union of Soviet Socialist Republics. Budsticks collected by H. J. Brooks, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Sept. 8, 1967.

322282. *CYDONIA OBLONGA* Mill. Rosaceae. Quince.

B-6 Along road at Yalta. Tree small but vigorous.

322283. *PRUNUS* sp. Rosaceae. (Wild cherry)

B-1. Fifteen miles on road from Yalta to Bakhchisaray, on the south slope of the mountains. Altitude 2,000 feet. Tree very large, 2 feet in diameter.

322284. *PRUNUS* sp. (Wild cherry)

B-5. Thirty-eight miles on road from Yalta to Bakhchisaray, into the second mountain range. Altitude 2,000 feet. Tree very large.

322285 and 322286. *PYRUS COMMUNIS* L. Rosaceae. Pear.

322285. B-2. Thirty miles on road from Yalta to Bakhchisaray, over the first mountain range into second range. Altitude 2,400 feet. Tree large, very old.

322286. B-3. Thirty-five miles on road from Yalta to Bakhchisaray, over the first mountain range into second range. Altitude 2,000 feet. Tree very tall, trunk diameter of 10 inches.

322287. *STIPA JOANNIS* Celak. Gramineae.

From Hungary. Seeds presented by A. Janossy, National Institute of Agrobotany, Tapioszele. Received Sept. 8, 1967.

Collected on slopes of dolomitic-limestone highlands of Kis-Szenas. Elevation 1,300 feet. Mixed with *S. pulcherrima*.

322288 to 322688.

From Brazil. Seeds presented by Theodore Hymowitz, Instituto de Pesquisas, IRI, Campinas, Sao Paulo. Numbered Sept. 12, 1967.

322288. *AESCHYNOMENE PANICULATA* Vog. Leguminosae.

IRI 1749. Brasilia, D. F.

322289. *AESCHYNOMENE* sp.

IRI 1237. Sao Jose do Rio Preto, Sao Paulo.

322290. *AESCHYNOMENE* sp.

IRI 1416. Sertaozinho, Sao Paulo.

322291. *AESCHYNOMENE* sp.

IRI 1796. Sao Jose do Rio Preto, Sao Paulo.

322288 to 322688—Continued

322292. *AESCHYNOMENE* sp.

IRI 1809. Frutal, Sao Paulo.

322293. *AESCHYNOMENE* sp.

IRI 1822. Sao Jose do Rio Preto, Sao Paulo.

322294. *AESCHYNOMENE* sp.

IRI 1973. Niteroi, Rio de Janeiro state.

322295. *AESCHYNOMENE* sp.

IRI 2030. Brasilia, D. F.

322296. *ALYSICARPUS VAGINALIS* (L.) DC. Leguminosae. **Alyceclover.**

IRI 1349. Introduced to Matao, Sao Paulo from Instituto Zootecnia, Rio de Janeiro. Original source unknown.

322297. *ASTRAGALUS SINICUS* L. Leguminosae. **Chinese milkvetch.**

IRI 1605. Introduced to Matao, Sao Paulo from Taiwan (Formosa).

322298. *CAESALPINIA FERREA* Mart. Leguminosae.

IRI 2125. Introduced to Matao, Sao Paulo from Experiment Station in Campos, Rio de Janeiro. Original source unknown.

322299 and 322300. *CAESALPINIA PULCHERRIMA* (L.) Swartz

Flowerfence.

322299. IRI 1256. Jaboticabal, Sao Paulo.

322300. IRI 2112. Introduced to Matao, Sao Paulo from private garden location on the Espirito Santo, Rio de Janeiro border.

322301 to 322303. *CALOPOGONIUM MUCUNOIDES* Desv. Leguminosae.

322301. IRI 1281. Matao, Sao Paulo.

322302. IRI 2109. Colatina, Espirito Santo.

322303. IRI 2432. Introduced to Matao, Sao Paulo from Escola Agronomia do Bahia, Cruzdas Almas, Bahia. Original source unknown.

322304. *CALOPOGONIUM* sp.

IRI 2138. Introduced to Matao, Sao Paulo from CEPEC, Ilheus Bahia. Original source unknown.

322305. *CALOPOGONIUM* sp.

IRI 2429. Donated to Matao, Sao Paulo by IPEAL, Cruzdas Almas Bahia. Original source unknown.

322306 and 322307. *CANAVALIA ENSIFORMIS* (L.) DC. Leguminosae.

Jack bean.

322306. IRI 1211. Sao Jose do Rio Preto, Sao Paulo.

322307. IRI 1304. Colina, Sao Paulo.

322308. *CANAVALIA MARITIMA* (Aubl.) Thouars

IRI 1481. Ubatuba, Sao Paulo.

322309. *CANAVALIA OBTUSIFOLIA* (Lam.) DC.

IRI 1350. Introduced to Matao, Sao Paulo from Instituto Zootecnia, Rio de Janeiro. Original source unknown.

322310. *CANAVALIA* sp.

IRI 1518. Sao Jose do Rio Preto, Sao Paulo.

322311. *CASSIA ALATA* L. Leguminosae.

Ringworm cassia.

IRI 1020. Sylvania, Sao Paulo.

322288 to 322688—Continued

322312. *CASSIA ANGULATA* Vog.

IRI 1050. Matao, Sao Paulo.

322313 and 322314. *CASSIA BICAPSULARIS* L.

322313. IRI 1367. Matao, Sao Paulo.

322314. IRI 1721. Itirucu, Bahia.

322315. *CASSIA CATHARTICA* Mart.

IRI 1008. Santa Lucia, Sao Paulo.

322316 to 322319. *CASSIA FLEXUOSA* L.

322316. IRI 1009. Bueno Andrade, Sao Paulo.

322317. IRI 1019. Santa Lucia, Sao Paulo.

322318. IRI 1063. Bauru, Sao Paulo.

322319. IRI 1366. Bueno Andrade, Sao Paulo.

322320 to 322322. *CASSIA LATISTIPULA* Benth.

322320. IRI 1071. Ribeirao dos Porcos, Sao Paulo.

322321. IRI 1072. Rio Claro, Sao Paulo.

322322. IRI 1322. Rio Claro, Sao Paulo.

322323 and 322324. *CASSIA ROTUNDIFOLIA* Pers.

322323. IRI 1043. Motuca, Sao Paulo.

322324. IRI 1115. Matao, Sao Paulo.

322325. *CASSIA* sp.

IRI 1210. Guatapara, Sao Paulo.

322326. *CASSIA* sp.

IRI 1399. Guararapes, Sao Paulo.

322327. *CENTROSEMA ARENARIUM* Benth. Leguminosae.

IRI 1355. Introduced to Matao, Sao Paulo from IPEAL, Belem, Para. Original source unknown.

322328. *CENTROSEMA KERMESII* Burkart

IRI 1091. Matao, Sao Paulo.

322329. *CENTROSEMA PLUMIERI* (Turp.) Benth.

IRI 1283. Matao, Sao Paulo.

322330 to 322334. *CENTROSEMA PUBESCENS* Benth.

322330. IRI 1282. Matao, Sao Paulo.

322331. IRI 1332. Matao, Sao Paulo.

322332. IRI 1346. Introduced to Matao, Sao Paulo from Instituto Zootecnia, Rio de Janeiro. Original source unknown.

322333. IRI 1975. Belem, Para.

322334. IRI 1976. Belem, Para.

322335 to 322337. *CENTROSEMA VIRGINIANUM* (L.) Benth.

Piedmont butterfly-pea.

322335. IRI 1353. Rio Claro.

322336. IRI 2070. Cabo Frio, Rio de Janeiro.

322337. IRI 2365. Feira de Santana, Bahia.

322288 to 322688—Continued

322338. *CENTROSEMA* sp.
IRI 1235. Sao Jose do Rio Preto, Sao Paulo.
322339. *CENTROSEMA* sp.
IRI 1266. Ribeirao Chibarro, Sao Paulo.
322340. *CENTROSEMA* sp.
IRI 1414. Donated by Howard Ream, United States Agency for International Development. Original source unknown.
322341. *CENTROSEMA* sp.
IRI 1534. Ribeirao Chibarro, Sao Paulo.
322342. *CENTROSEMA* sp.
IRI1601. Barretos, Sao Paulo.
322343. *CENTROSEMA* sp.
IRI 2052. Introduced to Matao, Sao Paulo from CEPEC, Ilheus Bahia. Original source unknown.
322344. *CENTROSEMA* sp.
IRI 2065. Vitoria, Espirito Santo.
322345. *CENTROSEMA* sp.
IRI 2066. Vitoria, Espirito Santo.
322346. *CENTROSEMA* sp.
IRI 2068. Vitoria, Espirito Santo.
322347. *CENTROSEMA* sp.
IRI 2069. Guarapari, Espirito Santo.
322348. *CENTROSEMA* sp.
IRI 2074. Santa Antonio, Espirito Santo.
322349. *CENTROSEMA* sp.
IRI 2075. Cabo Frio, Rio de Janeiro.
322350. *CENTROSEMA* sp.
IRI 2372. Medena, Minas Gerais.
322351. *CENTROSEMA* sp.
IRI 2384. Serra do Marsal, Bahia.
322352. *CENTROSEMA* sp.
IRI 2385. Itambe, Bahia.
322353. *CENTROSEMA* sp.
IRI 2387. Serra do Marsal, Bahia.
322354. *CENTROSEMA* sp.
IRI 2390. Mata Escura, Bahia.
322355. *CENTROSEMA* sp.
IRI 2391. Serra do Marsal, Bahia.
322356. *CENTROSEMA* sp.
IRI 2527. Ubata, Bahia.
- 322357 to 322363. *CLITORIA LAURIFOLIA* Poir. Leguminosae.
322357. IRI 1139. Caraguatatuba, Sao Paulo.

322288 to 322688—Continued

322357 to 322363—Continued

322358. IRI 1356. Sao Sebastiao, Sao Paulo.
 322359. IRI 1395. Gaviao Puxoto, Sao Paulo.
 322360. IRI 1411. Sao Sebastiao, Sao Paulo.
 322361. IRI 1810. Itape, Sao Paulo.
 322362. IRI 2006. Ilheus, Bahia.
 322363. IRI 2015. Ilheus, Bahia.

322364 to 322366. CLITORIA TERNATEA L.

Asian pigeonwings.

322364. IRI 1208. Sertaozinho, Sao Paulo.
 322365. IRI 1293. Matao, Sao Paulo.
 322366. IRI 1308. Colina, Sao Paulo.

322367 to 322369. CROTALARIA ANAGYROIDES HBK. Leguminosae.

322367. IRI 1086. Jaboticabal, Sao Paulo.
 322368. IRI 1173. Matao, Sao Paulo.
 322369. IRI 1994. Campo Grande, Mato Grosso.

322370. CROTALARIA BALANSAE Micheli

IRI 1440. Montenegro, Rio Grande do Sul.

322371 to 322373. CROTALARIA BRACHYSTACHYA Benth.

322371. IRI 1029. Tamoio, Sao Paulo.
 322372. IRI 1273. Avare, Sao Paulo.
 322373. IRI 1980. Campos, Rio de Janeiro.

322374. CROTALARIA ERIOCARPA Benth.

IRI 1413. Donated by Howard Ream, United States Agency for International Development. Original source unknown.

322375 and 322376. CROTALARIA GRANTIANA Harv.

322375. IRI 1312. Introduced to Matao, Sao Paulo from Colina, Sao Paulo. Original source unknown.
 322376. IRI 1316. Introduced to Matao, Sao Paulo from Colina, Sao Paulo. Original source unknown.

322377. CROTALARIA JUNCEA L.

Sunnhemp.

IRI 2473. Introduced to Matao, Sao Paulo from Escola do Agronomia, Cruzdas Almas, Bahia. Original source unknown.

322378 and 322379. CROTALARIA LANCEOLATA E. Mey.

Lance crotalaria.

322378. IRI 1089. Bauru, Sao Paulo.
 322379. IRI 1142. Bauru, Sao Paulo.

322380. CROTALARIA PAULINA Schrank

IRI 1309. Introduced to Matao, Sao Paulo from Colina, Sao Paulo. Original source unknown.

322381. CROTALARIA PILOSA Mill.

IRI 2471. Mata de Sao Joao, Bahia.

322382 to 322391. CROTALARIA SALTIANA Andrews

322382. IRI 1064. Bauru, Sao Paulo. Mixed slightly with *C. stipularia*.
 322383. IRI 1070. Rio Claro, Sao Paulo.

322288 to 322688—Continued

322382 to 322391—Continued

322384. IRI 1785. Introduced to Matao, Sao Paulo from CEPEC, Ilheus, Bahia. Original source unknown.
322385. IRI 2020. Introduced to Matao, Sao Paulo from CEPEC, Ilheus, Bahia. Original source unknown.
322386. IRI 2034. Araruama, Rio de Janeiro.
322387. IRI 2039. Guararapes, Sao Paulo.
322388. IRI 2062. Introduced to Matao, Sao Paulo from CEPEC, Ilheus, Bahia. Original source unknown.
322389. IRI 2468. Introduced from IPEAL, Cruzdas Almas, Bahia to Matao, Sao Paulo. Original source unknown.
322390. IRI 2475. Santa Antonio Jesus, Bahia.
322391. IRI 2486. Ubata, Sao Paulo.
- 322392 to 322395. *CROTALARIA STIPULARIA* Desv.
322392. IRI 1015. Matao, Sao Paulo.
322393. IRI 1253. Ribeirao Bonito, Sao Paulo.
322394. IRI 1464. Introduced to Matao, Sao Paulo from Rio Grande do Sul. Original source unknown.
322395. IRI 2470. Mata de Sao Joao, Bahia.
322396. *CROTALARIA USARAMOENSIS* Baker f.
IRI 1045. Sylvania, Sao Paulo.
322397. *CROTALARIA* sp.
IRI 1005. Santa Lucia, Sao Paulo.
322398. *CROTALARIA* sp.
IRI 1121. Bueno de Andrade, Sao Paulo.
322399. *CROTALARIA* sp.
IRI 1127. Sertaozinho, Sao Paulo.
322400. *CROTALARIA* sp.
IRI 1238. Cedral, Sao Paulo.
322401. *CROTALARIA* sp.
IRI 1720. Montes Claros, Minas Gerais.
322402. *CROTALARIA* sp.
IRI 1786. Introduced to Matao, Sao Paulo from CEPEC, Ilheus, Bahia. Original source unknown.
322403. *CROTALARIA* sp.
IRI 1788. Ilheus, Bahia.
322404. *CROTALARIA* sp.
IRI 1985. Brasilia, D. F.
322405. *CROTALARIA* sp.
IRI 2028. BR-4, 60 km. north of Minas Gerais in Bahia.
322406. *CROTALARIA* sp.
IRI 2086. Cabo Frio, Rio de Janeiro.
322407. *CROTALARIA* sp.
IRI 2143. Monte Alegre, Sao Paulo.

322288 to 322688—Continued

322408. *CROTALARIA* sp.

IRI 2434. Iturussu, Bahia.

322409. *CROTALARIA* sp.

IRI 2474. Ubata, Bahia.

322410. *DALBERGIA* sp. Leguminosae.

IRI 2137. Ilheus, Bahia.

322411. *DESMANTHUS VIRGATUS* (L.) Willd. Leguminosae.

IRI 1417. Garanhuns, Pernambuco.

322412. *DESMODIUM BARBATUM* (L.) Benth. Leguminosae.IRI 1741. Introduced to Matao, Sao Paulo from Turrialba, Costa Rica.
Original source unknown.322413. *DESMODIUM CAMPYLOCAULON* F. Muell. ex Benth.IRI 1704. Introduced to Matao, Sao Paulo from Hawaii Experiment
Station. HES 5546.322414 to 322426. *DESMODIUM CANUM* (Gmel.) Schinz & Thell.

Kaimi-clover.

322414. IRI 1335. Matao, Sao Paulo.

322415. IRI 1343. Araraquara, Sao Paulo.

322416. IRI 1441. Introduced to Matao, Sao Paulo from Sao Gabriel,
Rio Grande do Sul. Original source unknown.

Donated by Hawaii Experiment Station.

322417. IRI 1667. HES 5009.

322418. IRI 1668. HES 5010.

322419. IRI 1670. HES 5145.

322420. IRI 1671. HES 5324.

322421. IRI 1672. HES 5334.

322422. IRI 1673. HES 5335.

322423. IRI 1674. HES 5362.

322424. IRI 1738. Rio Claro, Sao Paulo.

322425. IRI 2308. Ipiau, Bahia.

322426. IRI 2330. Mata de Sao Joao, Bahia.

322427 to 322429. *DESMODIUM CUNEATUM* Hook. & Arn.

322427. IRI 1092. Rio Mogi, Sao Paulo.

Donated by Hawaii Experiment Station.

322428. IRI 1701. HES 4805.

322429. IRI 1702. HES 5030.

322430 to 322444. *DESMODIUM DISCOLOR* Vogel

322430. IRI 1186. Matao, Sao Paulo.

322431. IRI 1194. Sertaozinho, Sao Paulo.

322432. IRI 1200. Matao, Sao Paulo.

322433. IRI 1219. Araraquara, Sao Paulo.

322434. IRI 1241. Rio Claro, Sao Paulo.

322435. IRI 1250. Ribeirao Bonito, Sao Paulo.

322288 to 322688—Continued

322430 to 322444—Continued

322436. IRI 1254. Atibaia, Sao Paulo.
 322437. IRI 1255. Matao, Sao Paulo.
 322438. IRI 1264. Ribeirao Bonito, Sao Paulo.
 322439. IRI 1280. Matao, Sao Paulo.
 322440. IRI 1307. Colina, Sao Paulo.
 322441. IRI 1336. Matao, Sao Paulo.
 322442. IRI 1347. Introduced to Matao, Sao Paulo from Instituto Zootecnia, Rio de Janeiro. Original source unknown.
 322443. IRI 1412. Matao, Sao Paulo.
 322444. IRI 1800. Barretos, Sao Paulo.

322445 and 322446. *DESMODIUM DISTORTUM* (Aubl.) Macbride

322445. IRI 1710. Donated by Hawaii Experiment Station. HES 5144.
 322446. IRI 1715. Donated by Hawaii Experiment Station. HES 4525.

322447. *DESMODIUM GANGETICUM* (L.) DC.

- IRI 1631. Donated by Hawaii Experiment Station. HES 5347.

322448 to 322450. *DESMODIUM INTORTUM* (Mill.) Urb.

322448. IRI 1611. Donated to Matao, Sao Paulo from Australia. Aust.
 BEERWA.

322449. IRI 1622. Donated by Hawaii Experiment Station. HES 5053.

322450. IRI 1625. Donated by Hawaii Experiment Station. HES 5523.

322451. *DESMODIUM LEIOCARPUM* (Spreng.) Don

- IRI 1768. Sao Roque, Sao Paulo.

322452 and 322453. *DESMODIUM OVALIFOLIUM* Guill. & Perr.

322452. IRI 1681. Donated by Hawaii Experiment Station. HES 5325.

322453. IRI 1682. Donated by Hawaii Experiment Station. HES 5409.

322454 to 322462. *DESMODIUM PABULARE* Hoehne

322454. IRI 1024. Santa Lucia, Sao Paulo.

322455. IRI 1040. Jabuticabal, Sao Paulo.

322456. IRI 1046. Rio Mogi, Sao Paulo.

322457. IRI 1098. Matao, Sao Paulo.

322458. IRI 1114. Matao, Sao Paulo.

322459. IRI 1122. Sertaozinho, Sao Paulo.

322460. IRI 1138. Sao Sebastiao, Sao Paulo.

322461. IRI 1188. Bauru, Sao Paulo.

322462. IRI 1192. Boiadeira, Sao Paulo.

322463 to 322466. *DESMODIUM PERPLEXUM* Schubert

322463. IRI 1679. HES 5132.

322464. IRI 1687. HES 5168.

322465. IRI 1688. HES 5169.

322466. IRI 1689. HES 5170.

322288 to 322688—Continued

322467 to 322473. *DESMODIUM SANDWICENSE* E. Mey.

Donated by Hawaii Experiment Station.

322467. IRI 1657.

322468. IRI 1658. HES 5137.

322469. IRI 1659. HES 5157.

322470. IRI 1661. HES 5337.

322471. IRI 1663. HES 5348.

322472. IRI 1664. HES 5406.

322473. IRI 1666. HES 5522.

322474. *DESMODIUM SCORPIURUS* Desv.

IRI 1637. Donated by Hawaii Experiment Station. HES 5141.

322475 to 322497. *DESMODIUM TORTUOSUM* (Sw.) DC.

Donated by Hawaii Experiment Station.

322475. IRI 1635. HES 4240.

322476. IRI 1636. HES 5137.

322477. IRI 1638. HES 5156.

322478. IRI 1639. HES 5178.

322479. IRI 1640. HES 5179.

322480. IRI 1641. HES 5180.

322481. IRI 1642. HES 5400.

322482. IRI 1643. HES 5401.

322483. IRI 1645. HES 5041.

322484. IRI 1646. HES 5042.

322485. IRI 1647. HES 5043.

322486. IRI 1648. HES 5044.

322487. IRI 1649. HES 5050.

322488. IRI 1650. HES 5402.

322489. IRI 1651. HES 5403.

322490. IRI 1652. HES 5404.

322491. IRI 1653. HES 5512.

322492. IRI 1654. HES 5515.

322493. IRI 1655. HES 5519.

322494. IRI 1656. HES 5534.

322495. IRI 1713. HES 5032.

322496. IRI 1717. HES 5171.

322497. IRI 1781. Joao, Sao Paulo.

322498 and 322499. *DESMODIUM UNCINATUM* (Jacq.) DC.

322498. IRI 1162. Matao, Sao Paulo.

322499. IRI 1190. Rio Sao Lourenco, Sao Paulo.

322500. *DESMODIUM* sp.

IRI 1197. Neves Paulista, Sao Paulo.

322288 to 322688—Continued

322501. DESMODIUM sp.
IRI 1218. Matao, Sao Paulo.
322502. DESMODIUM sp.
IRI 1340. Santa Lucia, Sao Paulo.
322503. DESMODIUM sp.
IRI 1536. Matao, Sao Paulo.
322504. DESMODIUM sp.
IRI 1602. Santa Lucia, Sao Paulo.
322505. DESMODIUM sp.
IRI 1644. Donated by Hawaii Experiment Station. HES 4383.
322506. DESMODIUM sp.
IRI 1695. Donated by Hawaii Experiment Station. HES 5054.
322507. DESMODIUM sp.
IRI 1766. Registro, Sao Paulo.
322508. DESMODIUM sp.
IRI 1790. Brasilia, D. F.
322509. DESMODIUM sp.
IRI 1797. Matao, Sao Paulo.
322510. DESMODIUM sp.
IRI 1812. Frutal, Sao Paulo.
322511. DESMODIUM sp.
IRI 1937. 'Silverleaf'. Imported from Australia.
322512. DESMODIUM sp.
IRI 1962. Governor Valadares, Minas Gerais.
322513. DESMODIUM sp.
IRI 1964. Governor Valadares, Minas Gerais.
322514. DESMODIUM sp.
I 1978. Matao, Sao Paulo.
322515. DESMODIUM sp.
IRI 2064. Cabo Frio, Rio de Janeiro.
322516. DESMODIUM sp.
IRI 2146. Matao, Sao Paulo.
322517. DESMODIUM sp.
IRI 2307. Serra do Marsal, Bahia.
322518. DESMODIUM sp.
IRI 2309. Ipiau, Bahia.
322519. DESMODIUM sp.
IRI 2314. Ipiau, Bahia.
322520. DESMODIUM sp.
IRI 2332. Donated by IPEAL, Cruzdas Almas, Bahia to Matao, Sã
Paulo.

322288 to 322688—Continued

322521. *DESMODIUM* sp.

IRI 2334. Donated by IPEAL, Cruzdas Almas, Bahia to Matao, Sao Paulo.

322522. *DESMODIUM* sp.

IRI 2345. Governor Valadares, Minas Gerais.

322523. *DESMODIUM* sp.

IRI 2347. Governor Valadares, Minas Gerais.

322524. *DESMODIUM* sp.

IRI 2350. Teofilio Otoni, Minas Gerais.

322525. *DIOCLEA* sp. Leguminosae.

IRI 1762. Registro, Sao Paulo.

322526. *DIOCLEA* sp.

IRI 1782. Itabuna, Bahia.

322527. *DIOCLEA* sp.

IRI 2482. Jequeie, Bahia.

322528. *DOLICHOS AXILLARIS* E. Mey. Leguminosae.

IRI 1375. Imported from Australia, 1962 to Matao, Sao Paulo.

322529 to 322536. *DOLICHOS LABLAB* L.

Hyacinth-bean.

322529. IRI 1299. Matao, Sao Paulo.

322530. IRI 1302. Colina, Sao Paulo.

322531. IRI 1303. Colina, Sao Paulo.

322532. IRI 1371. Imported to Matao, Sao Paulo from Australia.

322533. IRI 1474. Monte Alto, Sao Paulo.

322534. IRI 1737. Santa Amaro, Sao Paulo.

322535. IRI 2148. Var. 697. Instituto Agronomico, Campinas, Sao Paulo.

322536. IRI 2534. Feira de Jequeie, Bahia.

322537 and 322538. *ERIOSEMA FLORIBUNDUM* Benth. Leguminosae.

322537. IRI 1006. Santa Lucia, Sao Paulo.

322538. IRI 1007. Rincao—Rio Mogi, Sao Paulo.

322539. *ERIOSEMA* sp.

IRI 1032. Rio Jacare, Sao Paulo.

322540. *ERIOSEMA* sp.

IRI 2507. On BR-4, between Jequeie and Salvador, Bahia.

322541. *GALACTIA JUSSIAEANA* Kunth Leguminosae.

IRI 1351. Donated by Instituto Zootecnia, Rio de Janeiro.

322542. *INDIGOFERA HIRSUTA* L. Leguminosae.

Hairy indigo.

IRI 1047. Rio Mogi, Sao Paulo.

322543. *INDIGOFERA LESPEDEZIODES* HBK.

IRI 1363. Matao, Sao Paulo.

322544. *INDIGOFERA SUFFRUTICOSA* Mill.

Anil indigo.

IRI 1011. Bueno Andrade, Sao Paulo.

322288 to 322688—Continued

322545. *INDIGOFERA* sp.

IRI 1180. Sertaozinho, Sao Paulo.

322546. *INDIGOFERA* sp.

IRI 1227. Sao Jose do Rio Preto, Sao Paulo.

322547. *INDIGOFERA* sp.

IRI 1311. Colina, Sao Paulo.

322548. *INDIGOFERA* sp.

IRI 1776. Campo Grande, Mato Grosso.

322549. *INDIGOFERA* sp.

IRI 1998. Terenos, Mato Grande.

322550. *INDIGOFERA* sp.

IRI 2088. Colatina, Esperito Santo.

322551. *LESPEDEZA CUNEATA* (Dumont) G. Don Leguminosae.

Chinese lespedeza.

IRI 1178. Introduced to Sertaozinho, Sao Paulo. Original source unknown.

322552 and 322553. *LEUCAENA LEUCOCEPHALA* (Lam.) de Wit Leguminosae. **Leadtree.**

322552. IRI 1239. Matao, Sao Paulo.

322553. IRI 1988. Introduced from Belem, Para to Matao, Sao Paulo.

Original source unknown.

322554. *LOTONONIS BAINESII* Baker Leguminosae.

IRI 1270. Introduced from Australia to Matao, Sao Paulo.

322555 and 322556. *LOTUS CORNICULATUS* L. Leguminosae.

Birdsfoot trefoil.

322555. IRI 1444. Introduced to Matao, Sao Paulo from Rio Grande do Sul.

322556. IRI 1828. Introduced to Matao, Sao Paulo from Pelotas, Rio Grande do Sul.

322557. *MACHAERIUM* sp. Leguminosae.

IRI 1984. On BR-4, 12 km. in Bahia from Minas Gerais border.

322558. *MACHAERIUM* sp.

IRI 2024. On BR-4, 14 km. in Bahia from Minas Gerais border.

322559. *MEDICAGO POLYMORPHA* L. Leguminosae.

IRI 1368. Introduced to Matao, Sao Paulo from Pocas de Caldas, Minas Gerais. Original source unknown.

322560. *MELILOTUS ALBA* Desr. Leguminosae.

White sweetclover.

IRI 1296. Introduced to Matao, Sao Paulo from Buru, Sao Paulo.

Original source unknown.

322561. *MIMOSA CONFERTA* Benth. Leguminosae.

IRI 1113. Araraquara, Sao Paulo.

322562. *MIMOSA GLAUDESCENS* Benth.

IRI 1172. Araraquara, Sao Paulo. Mixed with *crotalaria*.

322563. *MIMOSA METICULOSA* Mart.

IRI 1083. Araraquara, Sao Paulo.

322288 to 322688—Continued

322564. *MIMOSA NEUROLOMA* Benth.
IRI 1324. Matao, Sao Paulo.
322565. *MIMOSA SPRUCEANA* Benth.
IRI 1400. Matao, Sao Paulo.
322566. *MIMOSA* sp.
IRI 1010. Matao, Sao Paulo.
322567. *MIMOSA* sp.
IRI 1059. Santa Barbara, Sao Paulo.
322568. *MIMOSA* sp.
IRI 1080. Santa Barbara, Sao Paulo.
322569. *PERIANDRA DULCIS* Mart. ex Benth. Leguminosae.
IRI 1364. Motuca, Sao Paulo.
322570. *PERIANDRA HETEROPHYLLA* Benth.
IRI 1779. On road to Anapolis, Goiaz, 65 km. south of Brasilia, D. F.
- 322571 to 322574. *PHASEOLUS ANGULARIS* (Willd.) W. F. Wight Leguminosae.
Adsuki bean.
322571. IRI 1182. Sertaozinho, Sao Paulo.
322572. IRI 1206. Sertaozinho, Sao Paulo.
322573. IRI 1207. Sertaozinho, Sao Paulo.
322574. IRI 1313. Colina, Sao Paulo.
- 322575 to 322581. *PHASEOLUS ATROPURPUREUS* DC.
322575. IRI 1201. Introduced to Matao, Sao Paulo. Original source unknown. Mixed with *P. bracteatus*.
322576. IRI 1390. Introduced from Australia. C.Q. 364.
322577. IRI 1391. Introduced from Australia. C.P.I. 16879.
322578. IRI 1392. Introduced from Australia. C.P.I. 18556.
322579. IRI 1553. Introduced to Matao, Sao Paulo from Rio Grande do Sul.
322580. IRI 1614. 'Siratro'. Introduced from Australia, 1962.
322581. IRI 1938. 'Siratro'. Imported from Australia, 1965. Mixed.
- 322582 to 322585. *PHASEOLUS BRACTEATUS* Nees & Mart.
322582. IRI 1453. Introduced to Matao, Sao Paulo from Taquara, Rio Grande do Sul.
322583. IRI 1480. Introduced to Matao, Sao Paulo. Original source unknown.
322584. IRI 1603. Aracatuba, Sao Paulo.
322585. IRI 2277. Itaberaba, Bahia.
- 322586 to 322590. *PHASEOLUS CARACALLA* L. Snail bean.
322586. IRI 1018. Rio Jacare, Sao Paulo.
322587. IRI 1268. Rio Turvo, Sao Paulo.
322588. IRI 1289. Ribeirao Chibarro, Sao Paulo.
322589. IRI 1463. Lagoa dos Patos, Rio Grande do Sul.
322590. IRI 1543. Sao Sebastiao, Sao Paulo.

322288 to 322688—Continued

322591 to 322594. PHASEOLUS LATHYROIDES L.

322591. IRI 1393. Introduced from Australia. C.Q. 520. Mixed with *P. atropurpureus*.

322592. IRI 1552. Introduced to Matao, Sao Paulo from Rio Grande do Sul. Original source unknown.

322593. IRI 2303. Introduced to Matao, Sao Paulo from Cruzdas Almas, Bahia. Original source unknown.

322594. IRI 2284. Valley of Paraguassu, Bahia.

322595 to 322599. PHASEOLUS PANDURATUS Mart.

322595. IRI 1002. Rio Mogi, Sao Paulo.

322596. IRI 1108. Santa Lucia, Sao Paulo.

322597. IRI 1149. Matao, Sao Paulo.

322598. IRI 1166. Matao, Sao Paulo.

322599. IRI 1259. Matao, Sao Paulo.

322600. PHASEOLUS sp.

IRI 1265. Dourado, Sao Paulo.

322601. POIRETIA TETRAPHYLLA (Poir.) Burkart Leguminosae.

IRI 1285. Araraquara, Sao Paulo.

322602 to 322612. GLYCINE WIGHTII (R. Grah. ex Wight & Arn.) Verdcourt Leguminosae.

322602. IRI 1284. Introduced to Matao, Sao Paulo. Original source unknown.

322603. IRI 1287. Introduced to Matao, Sao Paulo. Original source unknown.

322604. IRI 1301. Introduced to Matao, Sao Paulo. Original source unknown.

322605. IRI 1345. Donated by Instituto Zootecnia, Rio de Janeiro.

322606. IRI 1388. Introduced from Australia. C.P.I. 25702.

322607. IRI 1394. Introduced from Australia. C.Q. 363.

322608. IRI 1616. 'Clarence'. Introduced from Australia.

322609. IRI 1617. 'Cooper'. Introduced from Australia.

322610. IRI 1736. Santa Amaro, Sao Paulo.

322611. IRI 1811. On road between Bauru and Marilia, Sao Paulo.

322612. IRI 2147. c.v. 804. Instituto Agronomico, Campinas Sao Paulo.

322613. GLYCINE WIGHTII (R. Grah. ex Wight & Arn.) Verdcourt

IRI 1298. Introduced to Matao, Sao Paulo. Original source unknown.

322614 and 322615. RHYNCHOSIA MINIMA (L.) DC. Leguminosae.

322614. IRI 1398. Donated to Matao, Sao Paulo by Frigonfco Anglo. Original source unknown. Mixture.

322615. IRI 2098. Along coastal highway 5 km. north of Campos, Rio de Janeiro.

322616 and 322617. RHYNCHOSIA PHASEOLOIDES (Sw.) DC.

Crabseye rhyngchosia.

322616. IRI 1055. Lencois Paulista, Sao Paulo.

322617. IRI 1323. Sobradinho, Sao Paulo.

322288 to 322688—Continued

322618. *RHYNCHOSIA* sp.
IRI 1584. Matao, Sao Paulo.
322619. *RHYNCHOSIA* sp.
IRI 2451. Santa Amaro, Bahia.
322620. *RHYNCHOSIA* sp.
IRI 2452. Along highway between Alagomhos to Salvador, Bahia.
322621. *RHYNCHOSIA* sp.
IRI 2454. On BR-4, Km. 557, north of Governor Valadares, Minas Gerais. Collected in state of Bahia.
322622. *RHYNCHOSIA* sp.
IRI 2455. On BR-4, Km. 596, north of Governor Valadares, Minas Gerais. Collected in state of Bahia.
322623. *RHYNCHOSIA* sp.
IRI 2458. On BR-4 between Jequie and Milagre, Bahia.
322624. *RHYNCHOSIA* sp.
IRI 2460. Salvador, Bahia.
322625. *RHYNCHOSIA* sp.
IRI 2531. Salvador, Bahia.
- 322626 and 322627. *SESBANIA EXASPERATA* H.B.K. Leguminosae.
322626. IRI 1319. Introduced to Matao, Sao Paulo from Colina, Sao Paulo. Original source unknown.
322627. IRI 1987. Introduced to Matao, Sao Paulo from Belem, Para. Original source unknown.
322628. *SESBANIA PUNICEA* Benth.
IRI 1465. Introduced to Matao, Sao Paulo from Rio Grande do Sul. Original source unknown.
322629. *SESBANIA SESBAN* (L.) Merr.
IRI 1012. Introduced to Matao, Sao Paulo from garden in Motieca, Sao Paulo. Original source unknown.
322630. *SESBANIA* sp.
IRI 1263. Guatapara, Sao Paulo.
322631. *STIZOLOBIUM ATERRIMUM* Piper & Tracy Leguminosae. **Velvetbean.**
IRI 1300. Introduced to Matao, Sao Paulo from Sertaozinho, Sao Paulo. Original source unknown.
322632. *STIZOLOBIUM DEERINGIANUM* Bort. **Deering velvetbean.**
IRI 1305. Introduced to Matao, Sao Paulo from Colina, Sao Paulo. Original source unknown.
322633. *STIZOLOBIUM* sp.
IRI 1588. Donated by Instituto Agronomico, Campinas to Matao, Sao Paulo. Original source unknown.
322634. *STYLOSANTHES CAPITATA* Vog. Leguminosae.
IRI 2142. Crato, Ceara.
- 322635 to 322640. *STYLOSANTHES GRACILIS* H.B.K.
322635. IRI 1022. Matao, Sao Paulo.

322288 to 322688—Continued

322636. IRI 1258. Matao, Sao Paulo.
322637. IRI 1277. Guararapes, Sao Paulo.
322638. IRI 1279. Ribeirao Bonito, Sao Paulo.
322639. IRI 1288. Guariba, Sao Paulo.
322640. IRI 1476. Pedra Branca, Sao Paulo.
322641 and 322642. *STYLOSANTHES GUYANENSIS* (Aubl.) Swartz
322641. IRI 1079. Between Sao Carlos and Rio Claro, Sao Paulo.
322642. IRI 1348. Donated to Matao, Sao Paulo by Instituto Zootecnia,
Rio de Janeiro. Original source unknown.
322643 to 322645. *STYLOSANTHES HUMILIS* H.B.K.
322643. IRI 1372. Introduced from Australia.
322644. IRI 1517. Sao Jose do Rio Preto, Sao Paulo.
322645. IRI 1615. Introduced from Australia. (Townsville Lucerne).
322646. *STYLOSANTHES MONTEVIDENSIS* Vog.
IRI 1060. Collected between Jau and Bauru, Sao Paulo.
322647. *STYLOSANTHES* sp.
IRI 1051. Sao Jose do Rio Preto, Sao Paulo.
322648. *STYLOSANTHES* sp.
IRI 1126. Bueno de Andrade, Sao Paulo.
322649. *STYLOSANTHES* sp.
IRI 1257. Matao, Sao Paulo.
322650. *STYLOSANTHES* sp.
IRI 1397. Matao, Sao Paulo.
322651. *STYLOSANTHES* sp.
IRI 1410. Matao, Sao Paulo.
322652. *STYLOSANTHES* sp.
IRI 1477. Pedra Branca, Sao Paulo.
322653. *STYLOSANTHES* sp.
IRI 1478. Pedra Branca, Sao Paulo.
322654. *STYLOSANTHES* sp.
IRI 1574. Donated to Matao, Sao Paulo from Sao Francisco do Sul,
Santa Catarina. Original source unknown.
322655. *STYLOSANTHES* sp.
IRI 1991. Terenos, Mato Grosso.
322656. *STYLOSANTHES* sp.
IRI 2035. Bauru, Sao Paulo.
322657. *STYLOSANTHES* sp.
IRI 2080. Twenty-six km. north of Niteroi, Rio de Janeiro.
322658. *STYLOSANTHES* sp.
IRI 2084. Vitoria, Espirito Santo.
322659 and 322660. *TEPHROSIA BREVIPES* Benth. Leguminosae.

322288 to 322688—Continued

322659 and 322660—Continued

322659. IRI 1157. Bueno de Andrade, Sao Paulo.

322660. IRI 1199. Matao, Sao Paulo.

322661. *TEPHROSIA CANDIDA* DC.

IRI 1272. Matao, Sao Paulo.

322662. *TEPHROSIA LEPTOSTACHYA* DC.

IRI 1320. Matao, Sao Paulo.

322663 to 322671. *TERAMNUS UNCINATUS* (L.) Swartz Leguminosae.

322663. IRI 1242. Rio Mogi, Sao Paulo.

322664. IRI 1243. Rio Claro, Sao Paulo.

322665. IRI 1244. Rio Claro, Sao Paulo.

322666. IRI 1274. Angatuba, Sao Paulo.

322667. IRI 1275. Tiete, Sao Paulo.

322668. IRI 1286. Donated to Matao, Sao Paulo by Instituto Agronomico. Campinas. Original source unknown.

322669. IRI 1331. Campos de Jordao, Sao Paulo.

322670. IRI 1467. Vinhedo, Sao Paulo.

322671. IRI 1943. On Rodovia Fernao Dias, 261 km. to Belo Horizonte, Minas Gerais.

322672. *TERAMNUS VOLUBILIS* Sw.

IRI 1220. Avanhanda, Sao Paulo.

322673. *TERAMNUS* sp.

IRI 1944. On BR-4, 86 km. south of Governor Valadares, Minas Gerais.

322674 to 322676. *TRIFOLIUM ALEXANDRINUM* L. Leguminosae.

Berseem clover.

322674. IRI 1835. Donated to Matao, Sao Paulo by IPEACS, Km. 47, Rio de Janeiro. Original source unknown.

322675. IRI 2042. Donated to Matao, Sao Paulo by IPEACS, Km. 47, Rio de Janeiro. Original source unknown. Km. 47 Introduction No. 26/65.

322676. IRI 2043. Donated to Matao, Sao Paulo by IPEACS, Km. 47, Rio de Janeiro. Original source unknown. Km. 47 Introduction No. 27/65.

322677. *VICIA SATIVA* L. Leguminosae.

IRI 1450. Introduced to Matao, Sao Paulo from Rio Grande do Sul. Original source unknown.

322678 to 322680. *VIGNA LUTEOLA* (Jacq.) Benth. Leguminosae.

322678. IRI 1129. Sao Sebastiao, Sao Paulo.

322679. IRI 1136. Caraguatatuba, Sao Paulo.

322680. IRI 1986. Donated to Matao, Sao Paulo by IPEAL, Belem Para. Original source unknown.

322681. *VIGNA VEXILLATA* (L.) A. Rich

IRI 1327. Sao Sebastiao, Sao Paulo.

322682. *VIGNA* sp.

IRI 2026. Urucuca, Bahia.

322288 to 322688—Continued

322683 and 322684. *ZORNIA BRASILIENSIS* Vog. Leguminosae.

322683. IRI 1221. Sao Jose do Rio Preto, Sao Paulo.

322684. IRI 1321. Matao, Sao Paulo.

322685 to 322687. *ZORNIA DIPHYLLO* (L.) Pers.

322685. IRI 1292. Matao, Sao Paulo.

322686. IRI 1402. Matao, Sao Paulo.

322687. IRI 1404. Matao, Sao Paulo.

322688. *ZORNIA* sp.

IRI 2045. Matao, Sao Paulo.

322689 to 322695. *GLYCINE MAX* (L.) Merr. Leguminosae.

Soybean.

From Angola. Seeds presented by Instituto de Investigacao Agronomica de Angola, Nova Lisboa. Numbered Sept. 18, 1967.

322689. C 8015. 'Improved'. Origin unknown. Maturity 129 days. Nonshattering. Yield 2.550 kg. per hectare.

322690. C 8037. 'Bean No. 279'. Origin unknown. Maturity 128 days. Nonshattering. Yield 2.550 kg. per hectare.

322691. C 8092. 'Jubiltan 109'. Origin Mozambique. Maturity 129 days. Nonshattering. Yield 2.870 kg. per hectare.

322692. E 939. 'Max C.P1159A8'. Origin Australia. Maturity 128 days. Nonshattering. Yield 2.430 kg. per hectare.

322693. E 1151. 'Bicolor'. Origin Angola. Maturity 117 days. Little resistance to shattering. Yield 2.290 kg. per hectare.

322694. E 1155. 'Hernnon'. Origin unknown. Maturity 126 days. Little resistance to shattering. Yield 2.290 kg. per hectare.

322695. E 1217. 'Bicolor do Cuima'. Origin Angola. Maturity 118 days. Nonshattering. Yield 2.290 kg. per hectare.

322696. *TRITICUM AESTIVUM* L. Gramineae.

From Germany. Seeds presented by E. Rehse, Heine-Peragis Getreidezucht, Einbeck. Numbered Sept. 18, 1967.

'Habicht'. 'Cappelle Desprez' × 'Breustedts Werla'.

322697 to 322704.

From Kenya. Seeds presented by J. G. Boonman, National Agricultural Research Station, Kitale. Original sources as indicated. Received Sept. 11, 1967.

322697. *TRIFOLIUM CHERANGANIENSE* Gillett Leguminosae.

K 50112. Cherangani.

322698. *TRIFOLIUM LUGARDII* Bullock

K 6474. Kitale.

322699. *TRIFOLIUM REPENS* L.

Whiteclover.

K 53945. Bamenda, Nigeria.

322700. *TRIFOLIUM RUEPELLIANUM* Fresen.

K 5777. Kitale.

322701. *TRIFOLIUM SEMIPILOSUM* Fresen.

Kenya clover.

K 5154. Kabete.

322697 to 322704—Continued

322702. TRIFOLIUM STEUDNERI Schweinf.

K 51100. Eldoret.

322703. TRIFOLIUM TEMBENSE Fres.

K 5252. Ol Joro Orok.

322704. TRIFOLIUM USAMBARENSE Taub.

K 5756. Embu.

322705. VERNONIA SHIRENSIS Oliver & Hiern **Compositae.**

From South Africa. Seeds collected by W. Duthie, Durban. Received Sept. 11, 1967.

Nagel Dam, Valley of Thousand Hills, approximately 50 miles west of Durban, Natal Province. Elevation 1,325 feet. Population massed in an area of approximately 50 yards square and located approximately 20 yards from high water mark (summer rainfall).

322706 to 322711.

From the Union of Soviet Socialist Republics. Budsticks collected by H. J. Brooks, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Sept. 14, 1967.

322706. MESPILUS GERMANICA L. Rosaceae. **Medlar.**

B-31. Botanical Garden at Askaniya-Nova, Ukraine. Fruit to 2.5 cm.

322707. PYRUS BETULAEFOLIA Bunge Rosaceae. **Birchleaf pear.**

B-35. Botanical Garden at Askaniya-Nova, Ukraine. Fruit with no grit.

322708. PYRUS CALLERYANA Decaisne **Callery pear.**

B-32. Botanical Garden at Askaniya-Nova, Ukraine.

322709. PYRUS sp.

B-34. Botanical Garden at Askaniya-Nova, Ukraine. Resembles *P. calleryana*. Fruit 1.5 cm., oval, conspicuous lenticels, 3 to 4 carpels; considerable grit; stem 2 to 2.5 cm.

322710. PYRUS sp.

B-36. Botanical Garden at Askaniya-Nova, Ukraine. Leaves serrate; fruit oval, conspicuous lenticels, 2 cm. diameter with only 4 carpels; stem 4 cm.

322711. PYRUS sp.

B-37. Botanical Garden at Askaniya-Nova, Ukraine. Leaves serrate; dwarf tree, 2 meters high, 2 meters wide; trunk 7.5 cm in diameter; fruit 2.0 cm. round with 4 carpels; stem 3.5 to 4 cm.

322712 to 322715.

From the Union of Soviet Socialist Republics. Budsticks presented by the Institute of Plant Industry, Leningrad. Received Sept. 14, 1967.

322712. MALUS BACCATA (L.) Moench Rosaceae. **Siberian crabapple.**

No. 2316.

322713. MALUS BACCATA var. MANDSHURICA (Maxim.) C. Schneid.

Manchurian crabapple.

No. 2330.

322714 and 322715. MALUS SYLVESTRIS Mill.

Apple.

322714. No. 711. 'Kendall Kitaiki'.

322715. No. 1639. 'Tayeshnoe'.

322716. TRITICUM DURUM Desf. Gramineae. Durum wheat.

From Mexico. Seeds presented by International Maize and Wheat Improvement Center, Mexico, D. F. Numbered Sept. 18, 1967.

'Oviachic 65'. (Pi-Sinai No. 2) Tc 60 D10224Br8y-3c-1y.

322717 to 322731. CAPSICUM ANNUM L. Solanaceae. Pimento.

From India. Seeds presented by A. Abraham, University of Kerala, Trivandrum, under Public Law 480, Project A7-CR-178. Numbered Sept. 18, 1967.

322717. C 4. Fruit paired, erect, 0.75 inches long, 0.25 inch wide; green turning to orange red.

322718. C 4. Fruit paired, erect, 1.75 inches long, 0.50 inch wide; yellowish white turning to orange red.

322719. C 14. Fruit single, pendent, 2.50 inches long, 1.25 inches wide; green turning to deep red.

322720. C 15. Fruit single, pendent, 3.50 inches long, 0.50 inch wide; green turning to deep red.

322721. C 27. Fruit paired, pendent, 0.75 inches long, 1.00 inch wide; green turning to bright red.

322722. C 37. Fruit paired, almost erect, 0.50 inches long, 0.75 inch wide; green turning to bright red.

322723. C 38. Fruit 2 to 3, pendent, 0.75 inch long, 1.25 inches wide; pale green turning to orange red.

322724. C 47. Fruit single, pendent, 5.00 inches long, 1.00 inch wide; green turning to deep red.

322725. C 093. Fruit single, 3.00 inches long, 1.75 inches wide; dark green turning to canary yellow.

322726. C 108. Fruit single, pendent, 0.50 inches long, 0.50 inch wide; green turning to deep red.

322727. CA 1. Fruit single, pendent, 2.25 inches long, 2.75 inches wide; green turning to deep red.

322728. CG 10. Fruit single, erect, 0.50 inches long, 0.50 inch wide; yellowish white with purple tint, turning to orange red.

322729. CH 83. Fruit single, almost pendent, 4.00 inches long, 1.25 inches wide; waxy yellow turning to orange red.

322730. CV 36. Fruit single, erect, 2.25 inches long, 0.50 inch wide; violet tinted turning to deep red.

322731. CW 87. Fruit single, pendent, 2.75 inches long, 2.00 inches wide; green turning to deep red.

322732 and 322733.

From the Union of Soviet Socialist Republics. Roots and stolons collected by W. H. Skrdla, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Sept. 19, 1967.

322732. CYNODON DACTYLON (L.) Pers. Gramineae. Bermudagrass.

S-102. Dry clay south slope, 5 miles southeast of Stavropol. Collected from several plants. (Stolons)

322733. IRIS sp. Iridaceae.

S-68. Ten miles northwest of Stavropol. Altitude 1,800 feet. Wild type. (Roots)

322734. PHALARIS CANARIENSIS L. Gramineae.

From Turkey. Seeds collected in 1952 by R. K. Godfrey, agricultural explorer, Bureau of Plant Industry, Soils, and Agricultural Engineering, Beltsville, Maryland. Numbered Sept. 19, 1967.

Component of P.I. 206463.

322735 to 322742. TRITICUM DURUM Des. Gramineae.**Durum wheat.**

From Italy. Seeds presented by Cirillo Maliani, Instituto di Genetica Vegetabile Maliani, Ardea, Roma. Received Sept. 19, 1967.

322735. 1 D.	322739. 8 D.
322736. 4 B.	322740. 11 C.
322737. 5 B.	322741. 12 D.
322738. 7 D.	322742. 16 A.

322743 and 322744. NICOTIANA TABACUM L. Solanaceae.**Tobacco.**

From Brazil. Seeds collected by B. C. Nichols, Agricultural Research Service, Tobacco Experiment Station, Greeneville, Tennessee. Received Sept. 19, 1967.

322743. T.I. 1498. 'Rippel'. Dark air-cured Galpao. Grown in mountains in vicinity of Santa Cruz.

322744. T.I. 1499. 'Amarelao'. Dark air-cured Galpao. Grown in lowlands in vicinity of Santa Cruz.

322745 to 322761.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received Sept. 19, 1967.

322745. *ABIES HOLOPHYLLA* Maxim. Pinaceae. Needle fir.
Primorski Region.

322746. *ABIES SACHALINENSIS* (Schmidt) Masters Sakhalin fir.
Sakhalin Region.

322747. *ABIES SIBIRICA* Ledeb. Siberian fir.
Krasnoyiarsk Region.

322748. *BETULA ERMANNII* Champ. Betulaceae.
Kamchatka Peninsula.

322749. *BETULA PLATYPHYLLA* Sukatchev Asian white birch.
Kamchatka Peninsula.

322750. *BETULA PLATYPHYLLA* Sukatchev Asian white birch.
Primorski Region.

322751. *BETULA SCHMIDTII* Regel Schmidts birch.
Primorski Region.

322752. *LARIX SIBIRICA* Ledeb. Pinaceae. Siberian larch.
Krasnoyiarsk Region.

322753 and 322754. *PICEA ABIES* (L.) Karst. Pinaceae. Norway spruce.

322753. Karelian Autonomous Soviet Socialist Republic.

322754. Moscow Region.

322755 to 322757. *PICEA JEZOENSIS* (Sieb. & Zucc.) Carr. Yeddo spruce.

322755. Khabarovsk Region.

322756. Primorski Region.

322757. Sakhalin Region.

322745 to 322761—Continued

322758. *PICEA OBOVATA* Ledeb.

Siberian spruce.

Krasnoyiarsk Region.

322759 and 322760. *PINUS PUMILA* (Pallas) Regel Pinaceae.

Stone pine.

322759. Amurskaya Region.

322760. Kamchatka Peninsula.

322761. *PINUS SIBIRICA* Mayr
Krasnoyiarsk Region.322762 to 323090. *CYAMOPSIS TETRAGONOLOBA* (L.) Taub. Le-
guminosae. Guar.From India. Seeds presented by Indian Agricultural Research Institute,
Division of Plant Introduction, New Delhi. Material assembled for test-
ing under Public Law 480, Project A7-CR-143. Numbered Sept. 20, 1967.

322762. I.C. 32/P2-1.	322792. I.C. 1004/P3.
322763. I.C. 32/P2-2.	322793. I.C. 1097/P3.
322764. I.C. 33.	322794. I.C. 1856/P1.
322765. I.C. 33/P2-1.	322795. I.C. 2383-1.
322766. I.C. 33/P2-2.	322796. I.C. 2383-2.
322767. I.C. 35.	322797. I.C. 2383/P3.
322768. I.C. 39.	322798. I.C. 2383/P3-1.
322769. I.C. 40/P1.	322799. I.C. 2493.
322770. I.C. 40/P2.	322800. I.C. 2493/P1.
322771. I.C. 41/P1.	322801. I.C. 3103.
322772. I.C. 42/P1.	322802. I.C. 3118.
322773. I.C. 44A/P1.	322803. I.C. 3118/P1.
322774. I.C. 44B.	322804. I.C. 3215/P1.
322775. I.C. 57A-1.	322805. I.C. 3267.
322776. I.C. 57A-2.	322806. I.C. 3268-1.
322777. I.C. 57A-1-1.	322807. I.C. 3268-2.
322778. I.C. 57A-1-2.	322808. I.C. 3268-1-1.
322779. I.C. 439.	322809. I.C. 3268-1-2.
322780. I.C. 439/P1.	322810. I.C. 5491.
322781. I.C. 439/P3.	322811. I.C. 5493.
322782. I.C. 547/P3.	322812. I.C. 5494/P1.
322783. I.C. 547A/P3.	322813. I.C. 5496/P1.
322784. I.C. 547B/P1.	322814. I.C. 5656/P1.
322785. I.C. 642/P2.	322815. I.C. 5694/P2-1.
322786. I.C. 642/P2-1-1.	322816. I.C. 5694/P2-2.
322787. I.C. 642/P2-1-2.	322817. I.C. 5694/P3-1.
322788. I.C. 739/P2.	322818. I.C. 5694/P3-2.
322789. I.C. 860.	322819. I.C. 7546-1.
322790. I.C. 860/P1.	322820. I.C. 7546-2.
322791. I.C. 907 U.	322821. I.C. 7590.

322762 to 323090—Continued

322822.	I.C. 7592.	322864.	I.C. 8926/P3.
322823.	I.C. 8423.	322865.	I.C. 8929/P2.
322824.	I.C. 8431.	322866.	I.C. 8932/P1-1.
322825.	I.C. 8431/P1.	322867.	I.C. 8932/P1-2.
322826.	I.C. 8431A/P2-1.	322868.	I.C. 8934/P3.
322827.	I.C. 8431A/P2-2.	322869.	I.C. 8936.
322828.	I.C. 8432/P1.	322870.	I.C. 8936/P1.
322829.	I.C. 8432/P2.	322871.	I.C. 8937/P3.
322830.	I.C. 8437.	322872.	I.C. 8947/P3.
322831.	I.C. 8444.	322873.	I.C. 8952.
322832.	I.C. 8445/P2.	322874.	I.C. 8968.
322833.	I.C. 8446/P1.	322875.	I.C. 8968/P1.
322834.	I.C. 8447/P1.	322876.	I.C. 8978/P2.
322835.	I.C. 8448.	322877.	I.C. 8980.
322836.	I.C. 8448/P3.	322878.	I.C. 8987.
322837.	I.C. 8450/P3.	322879.	I.C. 9003.
322838.	I.C. 8451.	322880.	I.C. 9004.
322839.	I.C. 8452.	322881.	I.C. 9004/P2.
322840.	I.C. 8452/P3.	322882.	I.C. 9007.
322841.	I.C. 8453-1.	322883.	I.C. 9007-1.
322842.	I.C. 8453-2.	322884.	I.C. 9007-2.
322843.	I.C. 8453/P2.	322885.	I.C. 9007/P2.
322844.	I.C. 8454.	322886.	I.C. 9008.
322845.	I.C. 8455.	322887.	I.C. 9009.
322846.	I.C. 8456.	322888.	I.C. 9010.
322847.	I.C. 8456/P1.	322889.	I.C. 9014/P1.
322848.	I.C. 8540/P3.	322890.	I.C. 9016.
322849.	I.C. 8781.	322891.	I.C. 9016/P2.
322850.	I.C. 8783A.	322892.	I.C. 9017/P2-1.
322851.	I.C. 8831.	322893.	I.C. 9017/P2-2.
322852.	I.C. 8842.	322894.	I.C. 9021/P1.
322853.	I.C. 8842/P2.	322895.	I.C. 9026-1.
322854.	I.C. 8866/P1.	322896.	I.C. 9026/P1.
322855.	I.C. 8871.	322897.	I.C. 9026/P2.
322856.	I.C. 8872.	322898.	I.C. 9026/P3.
322857.	I.C. 8883.	322899.	I.C. 9030.
322858.	I.C. 8890-1.	322900.	I.C. 9031.
322859.	I.C. 8890-2.	322901.	I.C. 9031-1.
322860.	I.C. 8897.	322902.	I.C. 9031/P1.
322861.	I.C. 8919/P1-1.	322903.	I.C. 9033.
322862.	I.C. 8919/P1-2.	322904.	I.C. 9036/P2-1.
322863.	I.C. 8926/P2.	322905.	I.C. 9036/P2-2.

322762 to 323090—Continued

322906.	I.C. 9037.	322948.	I.C. 9231-2.
322907.	I.C. 9037-1.	322949.	I.C. 9231/P2.
322908.	I.C. 9039-1.	322950.	I.C. 9232.
322909.	I.C. 9039-2.	322951.	I.C. 9233/P3.
322910.	I.C. 9040/P2.	322952.	I.C. 9234.
322911.	I.C. 9041.	322953.	I.C. 9234/P1-1.
322912.	I.C. 9042/P2.	322954.	I.C. 9234/P1-2.
322913.	I.C. 9049.	322955.	I.C. 9235/P1.
322914.	I.C. 9051.	322956.	I.C. 9777-1.
322915.	I.C. 9053.	322957.	I.C. 9777-2.
322916.	I.C. 9054/P1.	322958.	I.C. 10304/P3.
322917.	I.C. 9054/P3.	322959.	I.C. 10305/P1.
322918.	I.C. 9057.	322960.	I.C. 10308.
322919.	I.C. 9063/P1-1.	322961.	I.C. 10313.
322920.	I.C. 9063/P1-2.	322962.	I.C. 10318.
322921.	I.C. 9065.	322963.	I.C. 10334.
322922.	I.C. 9067/P2.	322964.	I.C. 10335.
322923.	I.C. 9067/P3.	322965.	I.C. 10336.
322924.	I.C. 9073/P3.	322966.	I.C. 10339.
322925.	I.C. 9075.	322967.	I.C. 10342.
322926.	I.C. 9077/P1.	322968.	I.C. 10345.
322927.	I.C. 9194-1.	322969.	I.C. 10346.
322928.	I.C. 9194-2.	322970.	I.C. 10350.
322929.	I.C. 9195.	322971.	I.C. 10352/P3.
322930.	I.C. 9196/P1.	322972.	I.C. 10354.
322931.	I.C. 9197.	322973.	I.C. 10356.
322932.	I.C. 9197/P2.	322974.	I.C. 10367.
322933.	I.C. 9199.	322975.	I.C. 10376.
322934.	I.C. 9202.	322976.	I.C. 10467.
322935.	I.C. 9203.	322977.	I.C. 10467-1-1.
322936.	I.C. 9203/P1.	322978.	I.C. 10467-1-2.
322937.	I.C. 9204.	322979.	I.C. 10503.
322938.	I.C. 9205/P2-1.	322980.	I.C. 10504/P2.
322939.	I.C. 9205/P2-2.	322981.	I.C. 10504/P3.
322940.	I.C. 9207/P1.	322982.	I.C. 10507.
322941.	I.C. 9208/P2.	322983.	I.C. 10510.
322942.	I.C. 9229/P2.	322984.	I.C. 10510.
322943.	I.C. 9229/P3.	322985.	I.C. 10511.
322944.	I.C. 9230.	322986.	I.C. 10515.
322945.	I.C. 9230-1.	322987.	I.C. 10520.
322946.	I.C. 9230-2.	322988.	I.C. 10520/P1.
322947.	I.C. 9231-1.	322989.	I.C. 10523A.

322762 to 323090—Continued

322990.	I.C. 10523/P2.	323032.	I.C. 11458.
322991.	I.C. 10524-1.	323033.	I.C. 11466.
322992.	I.C. 10524-2.	323034.	I.C. 11496.
322993.	I.C. 10527/P3.	323035.	I.C. 11498.
322994.	I.C. 10636.	323036.	I.C. 11499.
322995.	I.C. 11116.	323037.	I.C. 11501-1.
322996.	I.C. 11286-1.	323038.	I.C. 11501-2.
322997.	I.C. 11290.	323039.	I.C. 11503.
322998.	I.C. 11308-1.	323040.	I.C. 11506.
322999.	I.C. 11308-2.	323041.	I.C. 11508.
323000.	I.C. 11310.	323042.	I.C. 11512.
323001.	I.C. 11349.	323043.	I.C. 11512-1.
323002.	I.C. 11350.	323044.	I.C. 11515.
323003.	I.C. 11353.	323045.	I.C. 11519.
323004.	I.C. 11354.	323046.	I.C. 11521.
323005.	I.C. 11357.	323047.	I.C. 11525.
323006.	I.C. 11372.	323048.	I.C. 11530-1.
323007.	I.C. 11376-1.	323049.	I.C. 11530-2.
323008.	I.C. 11376-2.	323050.	I.C. 11536.
323009.	I.C. 11378-1.	323051.	I.C. 11702.
323010.	I.C. 11379.	323052.	I.C. 11703.
323011.	I.C. 11384.	323053.	I.C. 11704.
323012.	I.C. 11385.	323054.	I.C. 11705.
323013.	I.C. 11387.	323055.	I.C. 11749.
323014.	I.C. 11388.	323056.	I.C. 11751.
323015.	I.C. 11389.	323057.	I.C. 11769.
323016.	I.C. 11391.	323058.	I.C. 11770.
323017.	I.C. 11405.	323059.	I.C. 11803.
323018.	I.C. 11407.	323060.	I.C. 11804.
323019.	I.C. 11410.	323061.	I.C. 11805.
323020.	I.C. 11413-1.	323062.	I.C. 11806.
323021.	I.C. 11413-2.	323063.	E.C. 248/P3.
323022.	I.C. 11415.	323064.	E.C. 248A.
323023.	I.C. 11419.	323065.	E.C. 248A/P1.
323024.	I.C. 11423.	323066.	E.C. 2448/P2.
323025.	I.C. 11425.	323067.	E.C. 36420.
323026.	I.C. 11426.	323068.	E.C. 36951.
323027.	I.C. 11427-1.	323069.	E.C. 36952.
323028.	I.C. 11430.	323070.	E.C. 36953.
323029.	I.C. 11430-1.	323071.	P.I.G. 1.
323030.	I.C. 11433.	323072.	P.I.G. 3.
323031.	I.C. 11433-1.	323073.	P.I.G. 4.

322762 to 323090—Continued

323074. P.I.G. 5.	323083. P.I.G. 22.
323075. P.I.G. 6.	323084. P.I.G. 23.
323076. P.I.G. 9.	323085. P.I.G. 25.
323077. P.I.G. 11.	323086. P.I.G. 26-1.
323078. P.I.G. 12.	323087. P.I.G. 26-2.
323079. P.I.G. 15.	323088. P.I.G. 27.
323080. P.I.G. 16.	323089. 'Nanbahar'.
323081. P.I.G. 19.	323090. 'Sadabahar'.
323082. P.I.G. 20.	

323091 and 323092. HIBISCUS CANNABINUS L. Malvaceae.**Kenaf.**

From India. Seeds presented by Jute Agricultural Institute, Barrach Pore, West Bengal through Division of Plant Introduction, Indian Agricultural Research Institute, New Delhi. Received Sept. 21, 1967.

Released for superior performance in India.

323091. 'H.C. 583'.

323092. 'H.C. 584'.

323093. TRITICUM AESTIVUM L. Gramineae.

From Guatemala. Seeds presented by Astolfo Fumagalli, Labor Ovalle, Quezaltenango. Received Sept. 21, 1967.

'Xelaju 66'.

323094 to 323190.

From Lebanon. Seeds collected by R. W. Allard, Department of Agronomy, University of California, Davis, Calif. Random collections from plants on undisturbed site on the campus of American University, Beirut. Received Sept. 21, 1967.

323094 to 323140. AVENA BARBATA Brot. Gramineae.	Slender oats.
323094. No. 1.	323111. No. 18.
323095. No. 2.	323112. No. 19.
323096. No. 3.	323113. No. 20.
323097. No. 4.	323114. No. 21.
323098. No. 5.	323115. No. 22.
323099. No. 6.	323116. No. 23.
323100. No. 7.	323117. No. 24.
323101. No. 8.	323118. No. 25.
323102. No. 9.	323119. No. 26.
323103. No. 10.	323120. No. 27.
323104. No. 11.	323121. No. 28.
323105. No. 12.	323122. No. 29.
323106. No. 13.	323123. No. 30.
323107. No. 14.	323124. No. 31.
323108. No. 15.	323125. No. 32.
323109. No. 16.	323126. No. 33.
323110. No. 17.	323127. No. 34.

323094 to 323190—Continued

323094 to 323140—Continued

323128.	No. 35.	323135.	No. 42.
323129.	No. 36.	323136.	No. 43.
323130.	No. 37.	323137.	No. 44.
323131.	No. 38.	323138.	No. 45.
323132.	No. 39.	323139.	No. 46.
323133.	No. 40.	323140.	No. 47.
323134.	No. 41.		

323141 to 323190. AVENA STERILIS L.

Animated oats.

323141.	No. 1.	323166.	No. 26.
323142.	No. 2.	323167.	No. 27.
323143.	No. 3.	323168.	No. 28.
323144.	No. 4.	323169.	No. 29.
323145.	No. 5.	323170.	No. 30.
323146.	No. 6.	323171.	No. 31.
323147.	No. 7.	323172.	No. 32.
323148.	No. 8.	323173.	No. 33.
323149.	No. 9.	323174.	No. 34.
323150.	No. 10.	323175.	No. 35.
323151.	No. 11.	323176.	No. 36.
323152.	No. 12.	323177.	No. 37.
323153.	No. 13.	323178.	No. 38.
323154.	No. 14.	323179.	No. 39.
323155.	No. 15.	323180.	No. 40.
323156.	No. 16.	323181.	No. 41.
323157.	No. 17.	323182.	No. 42.
323158.	No. 18.	323183.	No. 43.
323159.	No. 19.	323184.	No. 44.
323160.	No. 20.	323185.	No. 45.
323161.	No. 21.	323186.	No. 46.
323162.	No. 22.	323187.	No. 47.
323163.	No. 23.	323188.	No. 48.
323164.	No. 24.	323189.	No. 49.
323165.	No. 25.	323190.	No. 50.

323191. VIBURNUM GRANDIFLORUM Wall. Caprifoliaceae.

From England. Cuttings presented by the Crown Estate Office, The Great Park, Windsor, Berks. Received Sept. 27, 1967.

'Snow White'.

323192. LOTUS PEREGRINUS L. Leguminosae. **Trefoil.**

From Crete. Seeds collected in 1964 by P. F. Knowles, University of California, Davis, Calif. Received Sept. 28, 1967.

323192—Continued

Col. No. N-24B. In a field with other weeds 1.8 miles west of Rethymnon. Annual, flat on ground. Component of P.I. 300237.

(*Lotus halophilus*).

323193 to 323197.

From Sweden. Scions presented by K. E. Flinck, Aktiebolaget, Findus, Bjuv.

Received Sept. 28, 1967.

323193. COTONEASTER ASCENDENS Flinck & Hylmo Rosaceae.

323194. COTONEASTER BULLATA Bois

323195. COTONEASTER DAMMERI C. Schneid.

'Skogsholmen'.

323196. COTONEASTER DIVARICATA Rhed. & Wils. Spreading cotoneaster.

323197. COTONEASTER SIKANGENSIS Flinck & Hylmo

Origin Sikang Province, Western China, elevation 2,800 meters. Closely related to *C. obscurus*. Upright; leaves thick, coriaceous elliptic ovate; fruits reddish orange, shiny. Adaptable for cultivation in cold climates.

323198 to 323231. SACCHARUM (hybrid) Gramineae.

Sugarcane.

From Hawaii. Cuttings presented by the Hawaiian Sugar Planters Association, Honolulu. Received Sept. 28, 1967.

323198. H.39-7028.	323215. H.63-8365.
323199. H.48-2094.	323216. H.63-8366.
323200. H.48-3166.	323217. H.63-8370.
323201. H.49-3533.	323218. H.63-8382.
323202. H.50-2036.	323219. H.65-8061.
323203. H.50-5217.	323220. H.65-8401.
323204. H.51-2279.	323221. H.65-8405.
323205. H.51-8194.	323222. H.65-8415.
323206. H.52-246.	323223. H.65-8420.
323207. H.52-4610.	323224. H.65-8421.
323208. H.53-4662.	323225. H.65-8425.
323209. H.54-775.	323226. H.65-8432.
323210. H.57-5174.	323227. H.65-8437.
323211. H.58-9973.	323228. H.65-8440.
323212. H.60-6909.	323229. 'Keong Java'.
323213. H.61-6010.	323230. 'Lahi (7)'.
323214. H.61-6008.	323231. P.O.J. 1499.

323232 and 323233. SACCHARUM (hybrid) Gramineae.

Sugarcane.

From Kenya. Cuttings presented by the Director, East African Agricultural and Forestry Regional Organization, Nairobi. Received Sept. 28, 1967.

323232. POJ-3142.

323233. POJ-3150.

323234 to 323241. ARACHIS HYPOGAEA L. Leguminosae.

From the Republic of South Africa. Seeds presented by Plant Introduction Officer, Department of Agricultural Technical Services, Pretoria. Received Oct. 2, 1967.

323234. 64.G.195. Selection 48-15 from Senegal \times Natal Common.
 323235. 64.G.202. Mwitunde \times Natal Common.
 323236. 64.G.204. Mwitunde \times Natal Common.
 323237. 64.G.208. Natal Common \times Kanyoma. Small dwarf plant bearing long, large kernels.
 323238. 65.G.221. 51D \times 48-15. (51D=Tjina \times Barberton).
 323239. 65.G.280. Natal Common \times Mount Makulu.
 323240. 'Bosbok'. From Bushbuckridge area where Natal Common has been grown for over 100 years.
 323241. Selection 5. From Natal Common.

323242. HIBISCUS CANNABINUS L. Malvaceae. Kenaf.

From The Netherlands. Seeds presented by K. van der Meer, International Land Development Consultants N.V., Arnhem. Received October 2, 1967.

G 41.

323243 and 323244.

From Venezuela. Seeds presented by George P. Gibbs, Apartado 393, Barquisimeto. Received Sept. 26, 1967.

323243. SESBANIA sp. Leguminosae.

From Rio Claro. Elevation 4,500 feet. Climate cool, dry, sunny; soil acid. Upright, to 3 feet high; flowers pink; foliage liked by animals.

323244. VITIS sp. Vitaceae.

From Carachi. Elevation 6,000 feet.

323245 to 323252. SACCHARUM (hybrid) Gramineae.

Sugarcane.

From Australia. Cuttings presented by the Bureau of Sugar Experiment Stations, Brisbane, Queensland. Received Oct. 6, 1967.

- | | |
|------------------|-----------------|
| 323245. BN. 192. | 323249. Q. 84. |
| 323246. Bn. 810. | 323250. Q. 85. |
| 323247. KO. 168. | 323251. Q. 86. |
| 323248. Q. 83. | 323252. SJ. 16. |

323253 and 323254. AVENA SATIVA L. Gramineae.

Common oats.

From Mexico. Seeds presented by the Instituto Nacional de Investigaciones Agrícolas, Chapingo. Received Oct. 9, 1967.

323253. 'Chihuahua'. From the cross of AB177 C.I.7149 \times Putnam C.I. 7531.
 323254. 'Cuauhtemoc'. From the cross of AB177 C.I.7149 \times Putnam 61 C.I. 7531.

323255 to 323264.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Oct. 10, 1967.

323255 to 323264—Continued

323255. *DACTYLIS GLOMERATA* L. Gramineae. Orchardgrass.
S227. 'Currie'.
323256. *FESTUCA ARUNDINACEA* Schreb. Gramineae.
N837. 'Demeter'.
323257. *LOLIUM RIGIDUM* Gaud. Gramineae. Wimmera ryegrass.
W98. 'Merridan'.
323258. *MEDICAGO TRUNCATULA* Gaertn. Leguminosae.
N662. '173 Barrel Medic'.
- 323259 and 323260. *TRIFOLIUM HIRTUM* All. Leguminosae. Rose clover.
323259. T.H.40. 'Kondinin'.
323260. T.H.55. 'Sirint'.
- 323261 to 323264. *TRIFOLIUM SUBTERRANEUM* L. Subterranean clover.
323261. V274. 'Geraldton'. 323263. 'Dinninup'.
323262. C1230. 'Howard'. 323264. 'Uniwager'.

323265 to 323306.

From Pakistan. Seeds collected by Ralph S. Matlock, Department of Agronomy, Oklahoma State University, Stillwater, Okla. Received Oct. 11, 1967.

- 323265 to 323269. *ARACHIS HYPOGAEA* L. Leguminosae.
From Rawalpindi. Presented by Rafiq Ahmad.
323265. Col. No. 8. 'Senegal Gambia'. Spreading bunch.
323266. Col. No. 9. 'B-4'. Selection from India lines.
323267. Col. No. 10. 'No. 334'. Selection from India lines. Spreading (runner). Two to 3 seeds per fruit.
323268. Col. No. 11. 'No. 45'. Selection from India lines. New runner variety. Inferior to 'No. 334'. (P.I. 323267).
323269. Col. No. 16. Agricultural Research Institute, Tando Jam. Presented by Manzoor Ahmad A. Baluch. Runner. (Believe same as P.I. 323267).
323270. *BRASSICA NAPUS* L. Cruciferae. Winter rape.
Col. No. 19. 'Sarsoon'. S-9. Agricultural Research Institute, Tando Jam. Presented by Manzoor Ahmad A. Baluch.
323271. *CARTHAMUS LANATUS* L. Compositae.
Col. No. 5. Near Peshawar, north of USAID Staff House. Wild safflower. Dry eroded area. Ten to 18 inches high. Heads 0.75 inch diameter; 12 to 20 seeds per head.
323272. *CARTHAMUS OXYACANTHA* Bieb.
Col. No. 4. 'Pholi'. Near Pesawar, north of USAID Staff House.
323273. *CENTAUREA* sp. Compositae.
Col. No. 3. 'Camel Thorn'. Dry eroded wasteland near Peshawar. Appears to be wild safflower species. Plant 6 to 12 inches high. Head with 6 spines. Boiled and given for gonorrhoea.
323274. *CYAMOPSIS TETRAGONOLOBA* (L.) Taub. Leguminosae. Guar.
Col. No. 13. Presented by Salin J. Malick, agricultural manager, Lever Brothers. Local guar grown for green manure on experimental farms near Rahim Yar Khan. White-seeded type.

323265 to 323306—Continued

323275. GLYCINE sp. Leguminosae.

Col. No. 7. 'Mirjanhat'. Rawalpindi. Presented by Rafiq Ahmad. Believed to be of Burmese origin. Yellow.

323276. GLYCINE sp.

Col. No. 12. 'Mothi'. Ayub Research Institute, Lyallpur. Presented by Shamshad A. Kahn, Oilseed Botanist. Native species.

323277. GLYCINE sp.

Col. No. 14. 'K-16'. Native variety. Seed small, black. Presented by Manzoor Ahmad A. Baluch, Associate Professor of Botany, Agricultural Research Institute, Tando Jam.

323278. GLYCINE sp.

Col. No. 15. 'K-30'. Seed small, black. Presented by Manzoor Ahmad A. Baluch, Associate Professor of Botany, Agricultural Research Institute, Tando Jam.

323279 to 323281. HELIANTHUS ANNUUS L. Compositae. Sunflower.

323279. Col. No. 1. Peshawar. Ornamental on military post. Seed small, white grey striped. Head to 2.5 inches diameter.

323280. Col. No. 6. Ayub Research Institute, Lyallpur. Seed black.

323281. Col. No. 20. 'Black Sayar'. Agricultural Research Institute, Tando Jam. Presented by Manzoor Ahmad A. Baluch. Only local variety grown.

323282 to 323293. PHASEOLUS AUREUS Roxb. Leguminosae. Mungbean.

Ayub Agricultural Research Institute, Lyallpur. Presented by Shamshad Kahn.

323282. Col. No. 22. 'No. 1'. Early. Seed small, green.

323283. Col. No. 23. 'No. 41M'. Seed small, green.

323284. Col. No. 24. 'T 54'.

323285. Col. No. 25. 'No. 153'. Seed small green.

323286. Col. No. 26. 'No. 156'. Seed small, green.

323287. Col. No. 27. 'No. 164'. Seed small, green.

323288. Col. No. 28. 'No. 217'. Seed small, green.

323289. Col. No. 29. 'No. 269'. Seed small, green.

323290. Col. No. 30. 'No. 305'. Seed small, green.

323291. Col. No. 31. 'No. 390'. Seed small, green.

323292. Col. No. 32. 'No. II'. Seed small, green.

323293. Col. No. 39. 'No. 170'. Seed small, green.

323294 to 323303. PHASEOLUS MUNGO L.

Urd.

Ayub Agricultural Research Institute, Lyallpur. Presented by Shamshad A. Kahn.

323294. Col. No. 33. 'No. 48'. Seed small, black.

323295. Col. No. 34. 'No. 59'.

323296. Col. No. 35. 'No. 80'. Seed small, black.

323297. Col. No. 36. 'No. 102'. Seed small, black.

323298. Col. No. 37. 'No. 125'. Seed small, black.

323299. Col. No. 38. 'No. 152'. Seed medium, black.

323265 to 323306—Continued**323294 to 323303—Continued**

323300. Col. No. 40. 'No. 216'. Seed small, black.

323301. Col. No. 41. 'No. 267'. Seed medium, black.

323302. Col. No. 42. 'No. 654'. Seed medium, black.

323303. Col. No. 43. 'No. 891'. Seed medium, black.

323304. *RICINUS COMMUNIS* L. Euphorbiaceae. **Castorbean.**
Col. No. 21. 'C-22. Castor'. Agricultural Research Institute, Tando Jam.

Presented by Manzoor Ahmad A. Baluch. Planted in desert area. Seed small; high oil content (49.5 percent).

323305 and 323306. *SESAMUM INDICUM* L. Pedaliaceae. **Sesame.**

From Agricultural Research Institute, Tando Jam. Presented by Manzoor Ahmad A. Baluch.

323305. Col. No. 17. 'S-19'. Seed black. High yielding; disease resistant.

323306. Col. No. 18. 'S-17'. Best white-seeded type. Some disease resistance.

323307 to 323309.

From the Union of Soviet Socialist Republics. Budsticks collected by H. J. Brooks, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Oct. 13, 1967.

323307 and 323308. *PRUNUS DOMESTICA* L. Rosaceae. **Common plum.**

323307. B-156. Forester's orchard near Camel Mountain, 18 km. west of Zheleznovodsk. Fruit to 4.0 cm., blue-black color; yellow flesh; pit completely free.

323308. B-158. Forester's orchard near Camel Mountain, 18 km. west of Zheleznovodsk. Similar to P.I. 323307, but larger and sweeter fruit.

323309. *PYRUS COMMUNIS* L. Rosaceae. **Common pear.**

B-154. Near television tower, Pyatigorsk. Spreading tree, 15 feet high, 15 feet wide; fruit 2.5 cm., very gritty.

323310 to 323312.

From Brazil. Plants presented by Roberto Burle Marx, Rio de Janeiro. Received Oct. 16, 1967.

323310. *ECHINODORUS* sp. Alismaceae.

323311. *PONTERERIA* sp. Pontederiaceae.

323312. *REUSSIA ROTUNDIFOLIA* (L.f.) Castell. Pontederiaceae.

323313. *ATRIPLEX HORTENSIS* L. Chenopodiaceae.

Garden orch.

From Poland. Seeds presented by Plant Breeding Institute, Grodkow, through K. W. Kreitlow, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Oct. 18, 1967.

Collected 30 km. east of Krakow. Used locally for forage and silage.

323314 to 323325.

From India. Seeds presented by A. Abraham, University of Kerala, Trivandrum, under P.L. 480 Project A7-CR-178. Received Oct. 18, 1967.

323314. *CAPSICUM ANNUUM* L. Solanaceae.

Pimento.

323315. *CAPSICUM* sp.

323314 to 323325—Continued

323316. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.
323317. CUCURBITA PEPO L. Cucurbitaceae. Pumpkin.
- 323318 and 323319. HIBISCUS ESCULENTUS L. Malvaceae. Okra.
323318. Green.
323319. Red.
323320. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.
323321. PHASEOLUS AUREUS Roxb. Leguminosae. Mungbean.
- 323322 to 323324. SOLANUM MELONGENA L. Solanaceae. Eggplant.
323322. No. 1. Long.
323323. No. 2.
323324. No. 3.
323325. VIGNA SINENSIS (Torner) Savi Leguminosae.
- 323326 to 323328. SKIMMIA JAPONICA Thunb. Rutaceae. Japanese skimmia.
- From England. Plants purchased from Treseders' Nurseries, Truro, Cornwall. Received Oct. 19, 1967.
323326. 'Jackmans Female'.
323327. 'Nymana Female'.
323328. 'Redruth'.
323329. MANGIFERA FOETIDA Lour. Anacardiaceae.
- From Singapore. Seeds presented by the Director, Botanic Garden. Received Oct. 19, 1967.
- 323330 to 323338.
- From Poland. Plants received from Polska Akademia Nauk, Kornik, Poznan. Received Oct. 19, 1967.
323330. ALNUS JAPONICA Sieb. Zucc. Betulaceae. Japanese alder.
- 'Purpurea'.
323331. ELAEAGNUS sp. Elaeagnaceae.
323332. LONICERA XYLOSTEUM L. Caprifoliaceae. European fly honeysuckle.
- 'Compacta'.
323333. POPULUS CANESCENS (Ait.) Smith Salicaceae.
- 'Pyramidalis'.
323334. PTEROCARYA PTEROCARPA (Michx.) Kunth Juglandaceae.
- 'Albo-maculata'.
323335. RIBES ALPINUM L. Saxifragaceae. Mountain currant.
- 'Verno-aureum'.
323336. SALIX ALBA L. Salicaceae. White willow.
- 'Pyramidalis'.
- 323337 and 323338. THUJA OCCIDENTALIS L. Pinaceae. Arborvitae.
323337. 'Aurescens'.
323338. 'Hoseri'.

323339 to 323341.

From the Republic of South Africa. Seeds presented by National Botanic Gardens, Kirstenbosch, Newlands, Cape Province. Received Oct. 19, 1967.

323339. *ERICA GLAUCA* var. *ELEGANS* (Andrews) Bolus Ericaceae.

323340. *ERICA PEZIZA* Lodd.

No. 248.

323341. *ERICA TAXIFOLIA* Bauer ex Wendl.

No. 250 A.

323342 to 323347. TRITICUM AESTIVUM L. Gramineae.

From Pakistan. Seeds presented by Cereal Botanist, Ayub Agricultural Research Institute, Lyallpur. Received Oct. 24, 1967.

323342. BxK 8y 5839—376a—3a—3a.

323343. C—273.

323344. Indus 66.

323345. LR 64—Sn 64—D19008—52M—6Y—3M—2Y.

323346. Mexipak 65.

323347. Pak.20.

323348 to 323350. HIBISCUS CANNABINUS L. Malvaceae. Kenaf.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Oct. 24, 1967.

323348. H.C. 129.

323349. H.C. 166.

323350. MT 102 EL.

323351 and 323352.

From Canada. Seeds presented by J. E. Fitzsimmons, University of Alberta, Edmonton. Received Oct. 24, 1967.

323351. *AVENA SATIVA* L. Gramineae.

Common oats.

No. O.T. 706. 'Grizzly'. (Scotch Victory × Palu).

323352. *HORDEUM VULGARE* L. Gramineae.

Common barley.

No. H—59—14. 'Centennial'. (Lenta × Sanalta).

323353 to 323387. SECALE CEREALE L. Gramineae.

Rye.

From Spain. Seeds presented by Estacion Experimental de Aula Dei, Zaragoza. Received Oct. 25, 1967.

323353. No. IR5. 'Balbo'.

323354. No. IR7. 'Balbo'.

323355. No. 3P5. 'Florida Black'. Wallace selection.

323356. No. 4N13. 'Florida Black'. Commercial.

323357. No. 5C11. 'Elbon'.

323358. No. 5E7. 'Elbon'.

323359. No. 5G5. 'Elbon'.

323360. No. 5J4. 'Elbon'.

323361. No. 5R1. 'Elbon'.

323362. No. 5T17. 'Elbon'.

323363. No. 6B13. 'Caribou'.

323353 to 323387—Continued

323364. No. 7C5. 'Wrens'. Rust resistant.
 323365. No. 7N14. 'Wrens'. Rust resistant.
 323366. No. 9E7. 'Wrens Abruzzi'.
 323367. No. 9F1. 'Wrens Abruzzi'.
 323368. No. 9F2. 'Wrens Abruzzi'.
 323369. No. 10T5. 'Explorer'. Rust resistant.
 323370. No. 12C16. 'Del Pais'.
 323371. No. 14A4. 'Villarrobledo A'.
 323372. No. 15D2. 'Huesca'.
 323373. No. 15D9. 'Huesca'.
 323374. No. 15G7. 'Huesca'.
 323375. No. 15R11. 'Huesca'.
 323376. No. 17C5. 'Prolific'.
 323377. No. 19E8. 'Gator'.
 323378. No. 20Y8. 'Inbred (x 178)'.
 323379. No. 21D1. '18'.
 323380. No. 21P3. '18'.
 323381. No. 22 X 1. 'Adams'.
 323382. No. 23R5. 'Imperial'.
 323383. Synthetic II.
 323384. Synthetic III.
 323385. Synthetic V.
 323386. Synthetic VI.
 323387. Synthetic IX.

323388 to 323400. TRITICUM AESTIVUM L. Gramineae.

From Kenya. Seeds presented by R. Little, International Rust Testing Centre, Plant Breeding Station, Njoro. Received Oct. 25, 1967.

Varieties released in 1966-67.

323388. 'Bonny'.
 323389. 'Bounty'.
 323390. 'Kenya Civet'.
 323391. 'Kenya Kudu'.
 323392. 'Kenya Leopard'.
 323393. 'Romany'.
 323394. 'Token'.

Varieties not released to date.

323395. 'Beacon'.
 323396. 'Bonito'.
 323397. 'Mentor'.
 323398. 'Trophy'.
 323399. 'Kenya Cheetah'=(Warigo × Sterling).
 323400. 1338.F.6.C.3.B.=(Australia 26A × K 117A).

323401 to 323406. HORDEUM VULGARE L. Gramineae.

Common barley.

From Korea. Seeds presented by Sang Ki Hahn, Seoul National University, Suwon. Received Oct. 25, 1967.

323401. 'Buheung'.

323402. 'Chilbo'.

323403. 'Suwon No. 4'.

323404. 'Suwon No. 6'.

323405. 'Suwon No. 18'.

323406. 'Yungwolyukak'. The most winter hardy in Korea.

323407. ADESMIA BICOLOR (Poir.) DC. Leguminosae.

From Uruguay. Seeds presented by Botanical Laboratory of the Faculty of Agronomy, through Agricultural Attache, American Embassy, Montevideo. Received Oct. 27, 1967.

Collected February 1963 from Botanic Garden.

323408 to 323419. TRITICUM AESTIVUM L. Gramineae.

From Yugoslavia. Seeds presented by Mirko Koric, Institute for Plant Breeding, Gunduliceva 20, Zagreb. Received Oct. 27, 1967.

323408. 'Bojka'. 323414. 'Vigorka 371'.

323409. 'Orkanka Brkulja'. 323415. 'Vitka'.

323410. 'Orkanka Golica'. 323416. 'Vlatka'.

323411. 'Rubinka 9/18'. 323417. 'Zdravka'.

323412. 'Rubinka 22/39'. 323418. 'Zekar'.

323413. 'Vigorka 37/16'. 323419. 'ZK × SP'.

323420. VITIS sp. Vitaceae.

From Venezuela. Seeds presented by George P. Gibbs, Apartado 393, Barquisimeto. Received Nov. 1, 1967.

Fruit clusters over 12 inches long, loose; berries small, black, good flavor.

323421 to 323441.

From Austria. Seeds presented by H. Jungbauer, Botanic Garten, 1070 Wien, Myrtheng. 3. Received Nov. 1, 1967.

323421. ACTINIDIA CHINENSIS Planch. Dilleniaceae. Yang tao.

323422. AEGILOPS (hybrid) Gramineae.

(A. longissima × Triticum durum).

323423. BECKMANNIA ERUCIFORMIS (L.) Host. Gramineae. Sloughgrass.

323424. CANNA EDULIS Ker. Cannaceae. Edible canna.

323425. CRAMBE MARITIMA L. Cruciferae. Common seakale.

323426. CRAMBE TATARIA Sebeok

323427. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

323428. CYCLANTHERA PEDATA (L.) Schrad. Cucurbitaceae.

323429. HIBISCUS ESCULENTUS L. Malvaceae. Okra.

323430. PHASEOLUS sp. Leguminosae.

323431. PHORMIUM COLENSOI LeJolis Liliaceae. Flaxlily.

323432. SAMBUCUS NIGRA f. AUREA (Sweet) Schwerin Caprifoliaceae.

323421 to 323441—Continued

323433. *SECALE CEREALE* L. Gramineae. Rye.
323434. *TRITICUM* (hybrid). Gramineae.
(*T. dicoccum* × *T. monococcum*).
323435. *TRITICUM DICOCCUM* Schrank Emmer.
323436. *TRITICUM MACHA* Dekapr. & Men.
323437. *TRITICUM MONOCOCCUM* L.
323438. *TRITICUM SPELTA* L. Spelt.
323439. *TRITICUM SPHAEROCOCCUM* Percival
323440. *TRITICUM TURGIDUM* var. *SPECIOSUM* Percival
323441. *VITIS VINIFERA* L. Vitaceae. European grape.
'Capensia Nigra'.
323442. *HELIANTHUS ANNUUS* L. Compositae. Sunflower.
From France. Seeds presented by A. Cauderon, Centre de Recherches Agromomiques, Clermont-Ferrand. Received Nov. 2, 1967.
Carries male-sterility factor closely linked with green seedling color.
323443. *RHODODENDRON TSUSIOPHYLLUM* Sugimoto. Ericaceae.
From Japan. Plants presented by W. H. Hodge, The Tokyo Office of the U. S. National Science Foundation. Received Nov. 2, 1967.
From the mountains near Hakone (Mt. Fuji area). Prostrate or decumbent, much-branched shrub to 0.5 m. high, the branches densely brown strigose; leaves rather thick, nearly sessile, elliptic to narrowly so, sometimes obovate, 7 to 10 mm. long, 4 to 6 mm. wide, acute at both ends, mucronulate, brown-strigose, on upper side, on margins and midrib beneath; flowers 1 to 3, white, umbellate, the pedicels densely brown-strigose, 1 to 3 mm. long; calyx minute; corolla shallowly 4 or 5 lobed, tubular-campanulate, 7 to 10 mm. long, white-puberulent externally; stamens 5, included, the filaments pilose, the anthers longitudinally dehiscent; style glabrous; ovary 3-locular, densely strigose; capsules broadly ovoid. June-July. Rare.
- 323444 and 323445.
From Pakistan. Seeds collected by N. H. French, United States Agency for International Development, Lahore. Received Nov. 3, 1967.
323444. *CENCHRUS CILIARIS* L. Gramineae.
Col. No. 3. Vijudo, Hyderabad. Plant tall on sandy soil. Head light colored, burr awns prominent. High production, low palatability.
323445. *CENCHRUS PRIEURII* (Kunth) Maire
Col. No. 4. Vijudo, Hyderabad. Plant robust, tall on sandy soil, leaves broad. High production, reported low palatability.
- 323446 to 323478.
From Poland. Seeds presented by Jan Piech, Glowny Osrodek Badawczy, Instytut Uprawy Nawozenia i Gleboznawstwa, Pulawy. Received Nov. 3, 1967.
- 323446 to 323448. *HORDEUM VULGARE* L. Gramineae. Common barley.
323446. 'Kostek'.
323447. 'Mikulicki Wczesny'.
323448. 'Slaski P'.
- 323449 to 323457. *SECALE CEREALE* L. Gramineae. Rye.
323449. 'Chrobre'.

323446 to 323478—Continued**323449 to 323457—Continued**

323450. 'Dankowskie Szttywne I'. U 4b/65.

323451. 'Garczynskie Ludowe'.

323452. M 3b/65.

323453. 'Noteckie Tetra'.

323454. 'Smolickie krotkie'.

323455. Szk 6b/65.

323456. 'Wloszanowskie'.

323457. 'Wloszanowskie N'.

323458 to 323478. TRITICUM AESTIVUM L. Gramineae.

Spring wheat.

323458. 'Ostka Chlopicka'.

323460. 'Pulawska Twarda'.

323459. 'Ostka Popularna'.

323461. 'Rokicka'.

Winter wheat.

323462. 297/63.

323471. 'Kujawianka
Wieclawicka'

323463. 486/63.

323472. 'Leszczynska Wczesna'.

323464. C 48/63.

323473. 'Malgorzatka Udycka'.

323465. C 517/63.

323474. 'Modzurowska'.

323466. D 130/63.

323475. 'Ninka II'.

323467. O 219/62.

323476. 'Olza'.

323468. 'Bezostaja'.

323477. 'Slazaczka'.

323469. 'Dankowska Biala'.

323478. 'Zelazna'.

323470. 'Eka Nowa'.

323479. PIERIS JAPONICA (Thunb.) G. Don Ericaceae.**Japanese pieris.**

From England. Plants presented by Hillier & Sons, Winchester. Received
Nov. 6, 1967.

'Blush'.

323480. ERYTHROXYLON COCA Lam. Erythroxylaceae.**Cocaine plant.**

From Austria. Seeds presented by H. Jungbauer, Botanic Garten, 1079 Wien,
Myrtheng. 3. Received Nov. 1, 1967.

323481 to 323496.

From the United States. Selections made at Regional Plant Introduction
Station, Geneva, N. Y. All reported resistant to crown rust *Puccinia
coronata* var. *avenae*. Received Nov. 7, 1967.

323481 to 323495. ARRHENATHERUM ELATIUS (L.) Presl Gramineae.**Tall oatgrass.**

323481. Col. No. 64-416. G-5778S-2. Selection from P.I. 234687.
Erect, vigorous, 38 inches by 18 inches, leaves dark green, excellent
winter hardiness and spring recovery.

323482. Col. No. 64-436. G-6091S-10. Selection from P.I. 235543.
Very erect and vigorous, 47 inches by 12 inches, excellent winter
hardiness and spring recovery.

323481 to 323496—Continued**323481 to 323495—Continued**

323483. Col. No. 64-445. G-8102S-6. Selection from P.I. 251571. Semi-erect, medium to excellent vigor, 40 inches by 28 inches, excellent winter hardiness and spring recovery, very leafy, shatters.
323484. Col. No. 64-445. G-8102S-13. Selection from P.I. 251571. Erect, very vigorous, 42 inches by 25 inches, leaves dark green, excellent winter hardiness and spring recovery, shatters.
323485. Col. No. 64-447. G-8104S-6. Selection from P.I. 251573. Semi-erect, very vigorous, 45 inches by 35 inches, leafy, excellent winter hardiness and spring recovery, shatters.
323486. Col. No. 64-457. G-8276S-7. Selection from P.I. 253294. Semi-erect to erect, vigorous, 42 inches by 29 inches, extremely leafy, leaves dark green, good winter hardiness, excellent spring recovery.
323487. Col. No. 64-460. G-8579S-10. Selection from P.I. 255166. Semi-erect to erect, 41 inches by 28 inches. Good winter hardiness and spring recovery.
323488. Col. No. 64-463. G-8636S-2. Selection from P.I. 255400. Excellent vigor, prostrate to semi-erect, 44 inches by 36 inches, leafy, excellent winter hardiness and spring recovery.
323489. Col. No. 64-468. G-8640S-13. Selection from P.I. 255404. Semi-erect to erect, medium vigor, 37 inches by 29 inches, excellent winter hardiness and spring recovery.
323490. Col. No. 64-470. G-8642S-14. Selection from P.I. 255406. Semi-erect to erect, very vigorous, 35 inches by 30 inches, very leafy, leaves dark green, excellent winter hardiness and spring recovery.
323491. Col. No. 64-472. G-8644S-14. Selection from P.I. 255408. Semi-erect to erect, good vigor, 41 inches by 33 inches, medium leafiness, good winter hardiness and spring recovery.
323492. Col. No. 64-474. G-8629S-2. Selection from P.I. 255466. Very erect, good vigor, 40 inches by 31 inches, good leafiness, excellent winter hardiness and spring recovery.
323493. Col. No. 67-402. G-6857S-3. Selection from P.I. 180806. Good to excellent vigor, erect, 31 inches by 20 inches, leaves dark green, good winter hardiness and spring recovery.
323494. Col. No. 67-402. G-6857S-5. Selection from P.I. 180806. Medium vigor, semi-erect to erect, 24 inches by 13 inches, lodges slightly, good winter hardiness and spring recovery.
323495. Col. No. 67-419. G-5781S-7. Selection from P.I. 234736. Very erect, medium vigor, 40 inches by 14 inches, very leafy, leaves dark green, moderate winter hardiness and spring recovery.

323496. ARRHENATHERUM ERIANTHUM Boiss. & Reut.

Col. No. 64-458. G-8534S-10. Selection from P.I. 254870. Semi-erect to erect, medium vigor, 43 inches by 19 inches, medium leafiness, fair winter hardiness and spring recovery.

323497. JUGLANS REGIA L. Juglandaceae. Persian walnut.

From the Union of Soviet Socialist Republics. Seeds presented by a Government Forester, Stavropol, Ukraine. Received Nov. 8, 1967.

B-150.

323498 to 323500.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received Nov. 13, 1967.

323498 to 323500—Continued

- 323498 and 323499. CUCUMIS MELO L. Cucurbitaceae. **Muskmelon.**
 323498. K-5442. 'Te-be-cin'. Originally from China.
 323499. K-5688. 'Mango melon'. Originally from China.
 323500. CUCUMIS sp.
 K-2005. Originally from China.

323501 to 323505.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Nov. 13, 1967.

323501. EUCALYPTUS COCCIFERA Hook. f. Myrtaceae.
 323502. EUCALYPTUS GLAUDESCENS Maiden & Blakely
 323503. EUCALYPTUS NIPHOPHILA Maiden & Blakely
 323504. EUCALYPTUS PERRINIANA Rodway
 323505. EUCALYPTUS SIMMONDSII Maiden

323506 to 323512.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Nov. 14, 1967.

323506. AMARANTHUS LEUCOCARPUS S. Wats. Amaranthaceae.
 'Local Amaranth'.
 323507. CENTELLA ASIATICA (L.) Urban Umbelliferae.
 I.W. 2699. Occurs locally in Delhi.
 323508 and 323509. HIBISCUS ESCULENTUS L. Malvaceae. **Okra.**
 323508. I.C. 10238. Pods very long.
 323509. I.C. 12933. Pods long.
 323510. LYCOPERSICON ESCULENTUM Mill. Solanaceae. **Tomato.**
 I.S. 13665. 'Kalianpur'.
 323511. PHYTOLACCA ACINOSA Roxb. Phytolaccaceae. **India pokeberry.**
 E.C. 25927.
 323512. TRIFOLIUM ALEXANDRINUM L. Leguminosae. **Berseem clover.**
 'Pusa Giant Berseem'. (tetraploid).

323513 to 323529.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Nov. 14, 1967.

- 323513 to 323516. CARTHAMUS TINCTORIUS L. Compositae. **Safflower.**
 323513. I.C. 11122. (N.P. 1).
 323514. I.C. 11123. (N.P. 2).
 323515. I.C. 11151. (N.P. 30).
 323516. I.C. 11174. (N.P. 30).
 323517 to 323525. GLYCINE MAX (L.) Merr. Leguminosae. **Soybean.**
 323517. E.C. 18593. Nepal.
 323518. E.C. 18595. Nepal.
 323519. E.C. 18596. Nepal.

323513 to 323529—Continued**323517 to 323525—Continued**

323520. E.C. 18646. Nepal.
 323521. I.C. 9461.
 323522. I.C. 11115A.
 323523. I.C. 13006.
 323524. I.C. 13007.
 323525. I.C. 13008.
 323526 and 323527. *HELIANTHUS ANNUUS* L. Compositae Sunflower.
 323526. E.C. 16070.
 323527. E.C. 16750.
 323528 and 323529. *SESAMUM INDICUM* L. Pedaliaceae. Sesame.
 323528. N.P. 3.
 323529. N.P. 6.

323530 to 323548.

From Kenya. Seeds presented by D. A. Skeates, Forest Department Arboretum, Nairobi. Received Nov. 14, 1967.

323530. *ALBIZIA LEBBECK* (L.) Benth. Leguminosae.
 323531. *CADIA* sp. Leguminosae.
 323532. *CALPURNIA AUREA* (Lam.) Benth. Leguminosae.
 323533. *CASSIA FLORIBUNDA* Cav. Leguminosae.
 323534. *CASSIA SIAMEA* Lam. Siamese senna.
 323535. *CASSIA SPECTABILIS* DC.
 323536. *CASSIA* sp.
 323537. *CORDIA ABYSSINICA* R. Br. Boraginaceae.
 323538. *CORDYLINE FRAGRANS* (Ker) Planch. Liliaceae.
 323539. *CROTON MEGALOCARPUS* Hutchinson Euphorbiaceae.
 323540. *DOMBEYA MASTERSII* Hook. Sterculiaceae.
 323541. *ERYTHRINA ABYSSINICA* Lam. Leguminosae. Coraltree.
 323542. *ERYTHRINA* sp.
 323543. *ERYTHRINA* sp.
 323544. *FILICIMUM DECIPIENS* (Wight & Arn.) Thwaites Sapindaceae.
 323545. *GARDENIA URCELLIFORMIS* Hiern Rubiaceae.
 323546. *KIGELIA AETHIOPICA* Decne. Bignoniaceae.
 323547. *MILLETTIA DURA* Dunn Leguminosae.
 323548. *OLEA CHRYSOPHYLLA* Lam. Oleaceae.
 323549. *PACHYRHIZUS TUBEROSUS* (Lam.) Spreng. Leguminosae. Yam-bean.

From El Salvador. Seeds presented by Benjamin J. Birdsall, Agency for International Development, American Embassy, San Salvador. Received Nov. 14, 1967.

'Jicama'.

323550 to 323581. *GLYCINE MAX* (L.) Merr. Leguminosae. **Soybean.**

From India. Seeds collected by Theodore Hymowitz, Agricultural Experiment Station, University of Illinois, Urbana, Illinois. Received Nov. 15, 1967.

323550. Col. No. H 67-1. Niglat, Nainital District. Elevation 5,300 feet.
323551. Col. No. H. 67-2. Bumsyun, Nainital District. Elevation 4,000 feet.
323552. Col. No. H 67-3. Bajina, Nainital District. Elevation 4,500 feet.
323553. Col. No. H 67-4. Uprari, Nainital District.
323553. Col. No. H 67-4. Uprari, Nainital District. Elevation 5,000 feet.
323554. Col. No. H 67-5. Naini, Nainital District. Elevation 5,600 feet.
323555. Col. No. H 67-6. Naini, Nainital District. Elevation 5,600 feet.
323556. Col. No. H 67-7. Rieuni, Nainital District. Elevation 5,650 feet.
323557. Col. No. H 67-8. Kapalkote, Nainital District. Elevation 6,000 feet.
323558. Col. No. H 67-9. Deolikhan, Nainital District. Elevation 6,100 feet.
323559. Col. No. H 67-10. Sitlakhet, Nainital District. Elevation 7,000 feet.
323560. Col. No. H 67-11. Boura Estate, Nainital District. Elevation 7,500 feet.
323561. Col. No. H 67-12. Bari, Almora District. Elevation 3,900 feet.
323562. Col. No. H 67-13. Sakar, Almora District. Elevation 4,100 feet.
323563. Col. No. H 67-14. Parolia, Almora District. Elevation 3,300 feet.
323564. Col. No. H 67-15. Bhawari, Almora District. Elevation 4,500 feet.
323565. Col. No. H 67-16. Jeetap, Almora District. Elevation 4,850 feet.
323566. Col. No. H 67-17. Kousani, Almora District. Elevation 5,500 feet.
323567. Col. No. H 67-18. Falsim, Almora District. Elevation 5,900 feet.
323568. Col. No. H 67-19. Pirsal, Almora District. Elevation 4,700 feet.
323569. Col. No. H 67-20. Maniager, Almora District. Elevation 6,100 feet.
323570. Col. No. H 67-21. Ladholi, Almora District. Elevation 6,300 feet.
323571. Col. No. H 67-22. Dania, Almora District. Elevation 5,900 feet.
323572. Col. No. H 67-23. Matila, Almora District. Elevation 4,500 feet.
323573. Col. No. H 67-24. Chaukhni, Almora District. Elevation 4,800 feet.
323574. Col. No. H 67-25. Salisanoli, Almora District. Elevation 3,600 feet.
323575. Col. No. H 67-26. Niri, Almora District. Elevation 4,100 feet.
323576. Col. No. H 67-27. Pan, Almora District. Elevation 4,600 feet.
323577. Col. No. H 67-28. Naughari, Almora District. Elevation 4,200 feet.
323578. Col. No. H 67-29. Hauli, Almora District. Elevation 4,700 feet.
323579. Col. No. H 67-30. Deora Panee, Nainital District. Elevation 5,600 feet.

323550 to 323581—Continued

323580. Col. No. H 67-31. Panuwa Dokhan, Nainital District. Elevation 5,200 feet.

323581. 'Seoni Yellow'. Collected by P. L. Digarsey at Seoni, Madhya Pradesh.

323582 to 323591.

From Portugal. Seeds presented by Jardim e Museu Agricola do Ultramar, Lisbon. Received Nov. 15, 1967.

323582 to 323585. ARACHIS HYPOGAEA L. Leguminosae.

323582. Amendoim de Andalazia, Espanha.

323583. 'Amendoim Vermelho'.

323584. 'Spanish Bunch'.

323585. 'Virginia Bunch 335A'.

323586 and 323587. GLYCINE MAX (L.) Merr. Leguminosae. Soybean.

323586. 'Dobrangeana'.

323587. 'Sangora'.

323588. HELIANTHUS MULTIFLORUS W. Young Compositae.

323589 to 323591. RICINUS COMMUNIS L. Euphorbiaceae. Castorbean.

323589. 'Bomboniensis'.

323590. 'Cimanon'.

323591. 'Zanzibariensis'.

323592 to 323605. LINUM USITATISSIMUM L. Linaceae.**Common flax.**

From Argentina. Seeds presented by Instituto Nacional de Tecnologia Agropecuaria, Estacion Experimental Agropecuaria, Parana, Entre Rios. Received Nov. 15, 1967.

323592. 'Buenos Aires 106'. High oil content.

323593. 'Lino Blanco 34-1-2'. Immune to all races of rust in Argentina.

323594. 'Mocoreta'. High oil content.

323595. 'Parana'.

323596. 'Puelche'.

323597. 'Rancagua'. Resistant to pasmo.

323598. 'Santa Catalina No. 6'.

323599. 'Taragui'. Resistant to lodging.

323600. 'Timbu'. Resistant to pasmo.

323601. 'Toba'.

323602. H677 F5-2-1-1-1. Immune to all races of rust in Argentina.

323603. H723 F3-6-3-4-2-2. Immune to all races of rust in Argentina.

323604. Hp.856 F6/60-8.

323605. 58 H13 b-1. Immune to all races of rust in Argentina.

323606 to 323610. TRITICUM AESTIVUM L. Gramineae.

From Australia. Seeds presented by the University of Sydney, Sydney. Received Nov. 15, 1967.

323606. 'Spica'.

323606 to 323610—Continued

323607. 'Steinwedel 2 × Khagli'.
 323608. S2303-W2044.
 323609. W150. Cowna No. 24.
 323610. W176. Plowman No. 3.

323611 and 323612.

From England. Plants presented by George Jackman & Sons, Woking, Surrey. Numbered Nov. 16, 1967.

323611. *CORTADERIA SELLOANA* (Schult.) Aschers. & Graebn. Gramineae.
 323612. *ROMNEYA TRICHOALYX* Eastw. Papaueraceae.

323613 to 323616.

From Denmark. Scions presented by University Botaniske Have, Copenhagen. Numbered Nov. 16, 1967.

323613. *HEDERA HELIX* f. *ARBORESCENS* (Loud.) Schneider Araliaceae.
 323614. *HEDERA HELIX* f. *DELTOIDEA* (Hibberd) Tobler
 323615. *HEDERA HELIX* var. *HIBERNICA* (Kirchn.) Jaeger
 323616. *POTENTILLA* (hybrid) Rosaceae.
 (*P. nepalensis* × *P. pennsylvanicum*)

323617 to 323621.

From Afghanistan. Seeds presented by J. B. Taylor, Department of Scientific and Industrial Research, Auckland, New Zealand. Pamirs Mountains. Elevation 7,000 to 8,000 feet. Received Nov. 16, 1967.

323617. *MALUS PUMILA* Mill. Rosaceae. **Paradise apple.**
 No. 8. Serghlan Valley. Tree to 20 feet high.
 323618 and 323619. *PYRUS COMMUNIS* L. Rosaceae. **Common pear.**
 323618. No. 5. Baharak Valley. Tree to 20 feet high.
 323619. No. 7. Serghlan Valley. Tree to 25 feet high.
 323620. *ROSA* sp. Rosaceae.
 No. 6. Baharak Valley. Shrub to 4 feet high.
 323621. *VITIS* sp. Vitaceae.
 No. 9. Baharak Valley. Vine.

323622 to 323629.

From the Union of Soviet Socialist Republics. Seeds presented by J. B. Taylor, Department of Scientific and Industrial Research, Auckland, New Zealand. Received Nov. 16, 1967.

323622. *ACER* sp. Aceraceae.
 No. 2. Kazakhstan. Tree to 40 feet high. Leaves yellow in autumn.
 323623. *ACER* sp.
 No. 4. Kazakhstan. Tree to 15 feet high. Leaves red in autumn.
 323624. *CORNUS* sp. Cornaceae.
 No. 1. Kazakhstan. Shrub to 8 feet high. Berries blue.
 323625. *COTONEASTER* sp. Rosaceae.
 No. 13. Arboretum, Timiraysev Academy, Moscow. Shrub to 5 feet high.

323622 to 323629—Continued

323626 and 323627. *MALUS BACCATA* (L.) Moench Rosaceae.
Siberian crabapple.

323626. No. 11. Arboretum, Timiraysev Academy, Moscow. Tree to 15 feet high. Fruit yellow.

323627. No. 12. (Received as *Malus baccata* var. *pallasiana*). Tree to 12 feet high.

323628. *MALUS PRUNIFOLIA* (Willd.) Borkh. Pearleaf crabapple.
No. 10. 'Kitaika Saninskaya'. Tree to 20 feet high.

323629. *MALUS PUMILA* Mill. Paradise apple.
No. 3. Kazakhstan. Tree to 20 feet high.

323630. *OXYPETALUM COERULEUM* (D. Don) Decne. Asclepiada-
ceae.

From Portugal. Seeds presented by Ailsa Lambe, Banco do Algarve, Porti-
mao, Algarve. Received Nov. 17, 1967.

323631. *OPIZIA STOLONIFERA* Presl Gramineae.
Acapulco grass.

From Puerto Rico. Stolons presented by the Agricultural Experiment
Station, Rio Piedras. Received Nov. 20, 1967.

323632 to 323649. *TRITICUM AESTIVUM* L. Gramineae.

From Yugoslavia. Seeds presented by Slavko Borojevic, Institute for Agri-
cultural Research, Novi Sad. Received Nov. 20, 1967.

323632. NS-322. S-13 × Aobakomughi. Dwarf.

323633. NS-602. S-13 × Aobakomughi. Semidwarf.

323634. NS-732. S-13 × Aobakomughi. Dwarf.

323635. NS-735. S-13 × Aobakomughi. Semidwarf.

323636. NS-736. S-13 × Aobakomughi. Dwarf.

323637. NS-737. S-13 × Aobakomughi. Semidwarf.

323638. NS-611. Fortunato 2 × C1913170. Resistant to leaf rust.

323639. NS-622. Fortunato 2 × C1913170. Resistant to leaf rust.

323640. NS-175/1-1. [(U1 × Selkirk) × San Pastore] × Mara. Early.
Very productive; resistant to leaf rust.

323641. Crvena Zvezda. [(U1 × Selkirk) × San Pastore] × Mara.
Early. Very productive; resistant to leaf rust.

323642. ND-310. [(U1 × Selkirk) × San Pastore] × Mara. Early.
Very productive; resistant to leaf rust.

323643. NS-314. [(U1 × Selkirk) × San Pastore] × Mara. Early
Very productive; resistant to leaf rust.

323644. NS-439. [(U1 × Selkirk) × San Pastore] × Mara. Early.
Very productive; resistant to leaf rust.

323645. NS-440. [(U1 × Selkirk) × San Pastore] × Mara. Early
Very productive; resistant to leaf rust.

323646. NS-32. Heine VII × 129. Registered.

323647. Backa. Heine VII × 129. Registered.

323648. Panonija. Heine VII × 129. Registered.

323649. Brkulja-4. Mara × Funo. Registered.

323650 to 323931.

From the United States. Seeds collected in 1964-1966 by G. Viehmeyer, North Platte Experiment Station, North Platte, Nebr. Numbered Nov. 20, 1967.

323650. *ACER GRANDIDENTATA* Nutt. ex Torr. & Gray Aceraceae.

Col. No. V66-28. Eight miles northeast of Alpine, Wyoming, along U. S. Highways 26-89. Thicket forming maple spreading by natural layers.

323651 and 323652. *AMELANCHIER ALNIFOLIA* Nutt. ex Roemer Rosaceae. **Serviceberry.**

323651. Col. No. V64-422. Four miles east of Cedar City, Utah. Growing in alluvial fan at mouth of canyon. Common in area. Bush large, upright; leaves small.

323652. Col. No. V65-83. Fifteen miles north of Egnar, Colorado. Leaves smaller than the type.

323653. *AMELANCHIER UTAHENSIS* Koehne **Serviceberry.**

Col. No. V64-394. Four miles west of Escalante, Utah, on dry slope. Shrub; leaves small; fruit small.

323654. *AMELANCHIER* sp.

Col. No. V64-387. Northeast of Escalante, Utah, in desert. Small-leaved form, common in desert.

323655. *AMELANCHIER* sp.

Col. No. V64-429. Along Highway 14, east of Cedar City, Utah, in cool moist canyon. Leaves large; fruit sweet, black.

323656. *AQUILEGIA CAERULEA* James Ranunculaceae.

Colorado columbine.

Col. No. V66-12. Twelve miles southwest of Lander, Wyoming. Flowers large, white.

323657. *ARTEMISIA* sp. Compositae.

Col. No. V66-2. Ten miles north of Medicine Bow, Wyo. Low suffruticose plant; foliage gray. Similar to *A. tridentata*.

323658. *ATRIPLEX* sp. Chenopodiaceae.

Col. No. V66-3. Subshrub; gray green.

323659. *BERBERIS HAEMATOCARPA* Wootton Berberidaceae. **Barberry.**

Col. No. V66-80. One mile north of bridge over Colorado River, 6 miles south of Junction of Utah 128 and U. S. Highways 6 and 50.

323660. *BERBERIS NEVINII* var. *HAEMATOCARPA* (Wootton) Benson

Col. No. V64-393. Rocky south facing slope three miles west of Escalante, Utah. Evergreen; fruit red. May be host to black stem rust.

323661 and 323662. *BETULA PAPYRIFERA* var. *COMMUTATA* (Regel) Fern. Betulaceae.

323661. Col. No. V64-545. West of Escalante, Utah in red rocks.

323662. Col. No. V64-551. Two miles north of bridge on Calf Creek, Utah 17, south of Boulder.

323663. *BUCKLEYA* sp. Santalaceae.

Col. No. V64-500. Kansas. To 15 inches high; foliage glaucous.

323664. *CELTIS OCCIDENTALIS* L. Ulmaceae. **Common hackberry.**

Col. No. V64-516. Aqua Fria Wash, west of Arizona U. S. 79, one mile north of Dugas turnoff. Elevation 3,800 feet. Low tree; branches contorted; leaves small, thick.

323650 to 323931—Continued

323665. *CERCOCARPUS INTRICATUS* S. Wats. Rosaceae.**Mountain mahogany.**

Col. No. V64-437. On cliff face along country road 9 miles above Kanarrville, Utah. Evergreen shrub, densely branched, compact, to 4 feet high and wide; leaves small, dark.

323666 to 323670. *CERCOCARPUS LEDIFOLIUS* Nutt. ex Torr. & Gray

323666. Col. No. V64-421. Four miles east of Cedar City, Utah in mouth of canyon growing along intermittent stream and on adjacent slopes. Evergreen shrub, large, to 12 feet high; fruit showy, many; foliage narrow, dark. Common in area.

323667. Col. No. V65-43. Dry slope south side of Bighorn Mountains along Wyoming Highway 16.

323668. Col. No. V65-71. Along U. S. 89, Kiabab Forest, Arizona.

323669. Col. No. V65-79. Eight miles east of Bitter Springs, Arizona, along U. S. 89. Very dry site.

323670. Col. No. V65-92. Black Box Canyon, 12 miles west, 4 miles south Green River, Utah.

323671. *CERCOCARPUS MONTANUS* Raf.

Col. No. V64-470. On rocky slope 2½ miles south of Colorado-Wyoming line on Highway 287.

323672 to 323675. *CHAMAEBATIARIA MILLEFOLIUM* (Torr.) Maxim. Rosa-ceae. **Fern bush.**

323672. Col. No. V64-523. South rim of Grand Canyon.

323673. Col. No. V64-553. Twenty-four miles north of Bryce Canyon Park on Utah 22 where road enters Otter Creek Canyon.

323674. Col. No. V64-554. Twenty-one miles north of Panguitch, Utah, Highway 89; cliff base west side of road. Sievar River Valley.

323675. Col. No. V64-559. Park Service Headquarters, south rim Grand Canyon, Ariz., growing in rocks and poor soil. Shrub, upright, to 6 feet high; leaves finely divided; flowers in panicles, borne terminally of current season's wood, white.

323676. *COREOPSIS* sp. Compositae.

Col. No. V66-70. Forty-five miles southeast of Castle Dale, Utah. Flowers large, bright yellow. Common on upland.

323677 to 323679. *CORNUS STOLONIFERA* Michx. Cornaceae. **Dogwood.**

323677. Col. No. V64-419. Six miles east of Cedar City, Utah, in moist, deep canyon. Clump 4 feet high, 20 feet wide; good bark color. Some resistance to leaf spot.

323678. Col. No. V65-46. Along U. S. 89 just inside numbered entrance to Lewis and Clark National Forest, Mont.

323679. Col. No. V66-58. At forks by ranger station near top of pass, Utah 31, Bear Creek Canyon.

323680 to 323687. *COWANIA MEXICANA* D. Don Rosaceae. **Cliff rose.**

323680. Col. No. V65-53. Among sage brush along forest road 5 miles south of Forest Service building, Fredonia, Ariz., on logging road. Evergreen shrub, upright; flowers 1 inch across, white.

323681. Col. No. V65-57. Kiabab Plateau, Ariz., along U. S. 89. Elevation 8,000 feet. Tall; flowers 1 inch across, medium yellow.

323682. Col. No. V65-70. Along logging road 17 miles south of Fredonia, Ariz., on road to Kiabab.

323650 to 323931—Continued

323680 to 323687—Continued

323683. Col. No. V65-77. Black Box Canyon, 12 miles west, 4 miles south of Green River, Utah, on very dry site.
323684. Col. No. V65-94. Kiabab Plateau, Ariz., near hybrid plants of *Cowania* and *Fallugia*.
323685. Col. No. V66-72. Sixty-six miles southeast from Castle Dale on north-facing slope in San Rafael Swell, Utah. Evergreen, flowers large.
323686. Col. No. V66-75. San Rafael Swell, 69 miles southeast of Castle Dale, Utah.
323687. Col. No. V64-504. Grand Canyon National Park, Ariz.
323688. CUPRESSUS ARIZONICA Greene Pinaceae. **Arizona cypress.**
Col. No. V64-521. Above Sedona, Ariz., Schnebly Hill Road. At upper limit of range. Elevation 6,000 feet.
323689. DASYLIRION LEIOPHYLLUM Engelm. ex Trel. Liliaceae.
Col. No. V64-560. 'Soto'. Rocky desert, Davis Mountains. Elevation 6,000 feet. Rosette of narrow saw-toothed leaves to 30 inches long; flower stalk to 12 feet high.
323690. DELPHINIUM NELSONII Greene Ranunculaceae.
Col. No. V65-26. Thirty-eight miles south of Evanston, Wyo., 1 mile west of north entrance to Wasatch National Forest. Low with tuberous root; flowers dark with white beard.
323691. DELPHINIUM sp.
Col. No. 64-444. 'Larkspur'. Fifteen miles above Kanarraville, Utah in dry mountain meadow in dense stand of plants. Common on mesa top on road between Kanarraville and Zion Park. To 7 feet high; foliage coarse; flowers blue with white beard.
323692. DELPHINIUM sp.
Col. No. V64-463. Forty-two miles north of Durango along Colorado 550. Elevation 9,000 feet. To 5 feet high; leaves deeply notched.
323693. ERIOGONUM sp. Polygonaceae.
Col. No. V64-405. Twenty miles west of Escalante, Utah, along Utah 54. Roundtopped, 24 inches by 18 inches; perianths brilliant yellow, in 2 to 3 inch umbels. Mound of brilliant yellow when in full fruit.
323694. ERIOGONUM sp.
Col. No. V64-406. In road ditch 20 miles west of Escalante, Utah. Small plants without bloom. Possibly same as P.I. 323693, foliage larger and fleshier.
323695. ERIOGONUM sp.
Col. No. V64-546. Dead Mare Wash, west of Escalante, Utah 54. Subshrub, 2 inches high, 2 feet wide; flowers brilliant yellow.
- 323696 to 323699. FALLUGIA PARADOXA (D. Don) Endl. Rosaceae.
323696. Col. No. V64-477. East of Escalante, Utah, along Highway Utah 54.
323697. Col. No. V65-68. 'Apache Plume'. North side Kiabab Plateau, Ariz. Low shrub.
323698. Col. No. V65-81. Five miles south of The Gap, Ariz. in sagebrush hills.

323650 to 323931—Continued

323696 to 323699—Continued

323699. Col. No. V65-87. Seventeen miles south of Fredonia on forestry road to Kiabab Forestry, Ariz.

323700. FENDLERA RUPICOLA Engelm. & Gray Saxifragaceae.

Col. No. V65-56. North of Egnar, Colorado, along Colorado 80. Shrub, upright.

323701 to 323707. FRAXINUS ANOMALA Torr. ex Wats. Oleaceae.

323701. Col. V64-398. Five miles west of Escalante, Utah, in talus at base of sandstone cliff.

323702. Col. No. V64-515. Seven Springs campground. Tree to 65 feet high.

323703. Col. No. V64-548. Utah 54 south of Escalante River crossing.

323704. Col. No. V65-72. 'One leaf ash'. Three miles north of Bluff, Utah, on rocky cliff.

323705. Col. No. V65-75. 'One leaf ash'. Eleven miles north of Egnar, Colo. on sandstone slope. To 15 inches high; caps large; foliage thick, glaucous; sessile obovate, leaves slim, obovate.

323706. Col. No. V65-78. Black Box Canyon, 12 miles west, 4 miles south, Green River, Utah.

323707. Col. No. V66-66. Twenty-one miles southeast of Castle Dale Road to San Rafael swell.

323708. GERANIUM sp. Geraniaceae.

Col. No. V65-52. 'Wild geranium'. Southwest slope of Bighorn Mountains on Wyoming 117. Flowers deep purple rose, good.

323709. HEUCHERA EASTWOODIAE C. O. Rosend. Butters & Lakela Saxifragaceae.

Col. No. V64-535. East of tunnel, Zion National Park. Pubescent leaves and petioles. Flowers green.

323710 to 323712. JUNIPERUS MONOSPERMA (Engelm.) Sarg. Pinaceae.
Cherrystone juniper.

323710. Col. No. V66-55. Five miles east of Hiawatha, Utah, in sand along Utah 122.

323711. Col. No. V66-56. Five miles east of Hiawatha, Utah, in sand along Utah 122.

323712. Col. No. V66-64. Juniper stand on very dry exposed ledges 12 miles east of Castle Dale, Utah. San Rafael Swell road.

323713. JUNIPERUS sp.

Col. No. V64-518. 'Alligator Juniper'. On Mogollon Rim above Sedona, Ariz.

323714. JUNIPERUS sp.

Col. No. V65-47. Sweetgrass hills, 28 miles east of Sweetgrass, Mont. Low horizontal type.

323715. LIRIODENDRON TULIPIFERA L. Magnoliaceae. Tulip tree.

Col. No. V64-487. 'Tulip tree'. 2151 Arapahoe, Boulder, Colo.

323716 to 323719. LONICERA INVOLUCRATA (Richards.) Banks Caprifoliaceae. Honeysuckle.

323716. Col. No. V64-461. Along Colorado 550, 42 miles north of Durango, about 2 miles south of Silverton. Elevation 9,000 feet. Compact, 3 feet high by 15 feet wide; fruit in twin berried clusters, black.

323650 to 323931—Continued

323716 to 323719—Continued

323717. Col. No. V66-18. Half Moon Lake near Pinedale, Wyo. Good plant growing in full sun.

323718. Col. No. V66-35. Nine miles south of Evanston, Wyo., in wet meadow, full sun. Spreading, 2 feet high by 7 feet wide.

323719. Col. No. V66-43. Two miles east of Hanna, Utah, along irrigation ditch.

323720 to 323722. MAHONIA REPENS (Lindl.) G. Don Berberidaceae.

Creeping mahonia.

323720. Col. No. V64-350. 'Oregon grape'. Three miles west of Glenwood Springs, Colo., under pines and in full sun. Foliage good; in fruit.

323721. Col. No. V64-489. One mile south of Curie Health Springs road along Left Hand Creek road south slope, full sun, above Lyons, Colo. To 8 inches high; rapidly spreading by rhizomes; very free fruiting.

323722. Col. No. V66-21. Ten miles north of Junction of Highways 187 and 189, west of Pinedale, Wyo., on dry sagebrush slope in full sun without wind protection.

323723 and 323724. MIRABILIS MULTIFLORA (Torr.) A. Gray Nyctaginaceae.

323723. Col. No. V64-501. Two miles east of Portland, Colo.

323724. Col. No. V64-505. Cheyenne Horticultural Field Station.

323725. MONARDA FISTULOSA L. Labiatae.

Wildbergamot.

Col. No. V65-48. Upland slope, Okatos, Alberta, Canada. Flower heads extra large.

323726. OENOTHERA MISSOURIENSIS Sims. Onagraceae.

Col. No. V64-495. 'Evening primrose'. Prairie Gem Ranch owned by Claude Ban, Smithville, S. Dak. Gumbo soil; stems decumbent; flowers 3 to 4 inch, yellow; leaves lanceolate, pubescent; pods large, 2 to 3 inch, winged.

323727. OENOTHERA SERRULATA Nutt.

Col. No. V64-392. 'Sun drops'. Three miles west of Escalante, Utah. Low, suffruticose; flowers yellow; long blooming.

323728 to 323730. PACHYSTIMA MYRSINITES (Pursh) Raf. Celastraceae.

323728. Col. No. V64-418. Six miles east of Cedar City, Utah, growing in areas of above average moisture. Leaves shiny, green.

323729. Col. No. V64-532. East of tunnel, Zion National Park, Utah. To 2 feet high.

323730. Col. No. V66-11. Twelve miles southwest of Lander, Wyo., full sun, west-facing bank, dry site.

323731. PEDICULARIS CRENULATA Benth. Scrophulariaceae.

Col. No. V66-85-66. Along Wyoming 230, east of Woods Landing, Wyoming. Flowers purple; alleged to be partial parasite.

323732. PENSTEMON ALBIDUS Nutt. Scrophulariaceae.

Col. No. V64-337. One mile north of Wray, Colo., sandy soil. Ornamental; to 15 inches high; flowers white. Leaf margins serrate or entire.

323733. PENSTEMON ALPINUS Torr.

Col. No. V65-49. Roadside, Bighorn Mountains, on Highway 14, 24 miles southwest of Sheridan, Wyo.

323650 to 323931—Continued**323734.** *PENSTEMON ANGUSTIFOLIUS* Nutt. ex Pursh

Col. No. V64-338. Sandy soil 15 miles south of Yuma, Colo. Foliage glaucous; leaves lanceolate; flowers blue.

323735 and 323736. *PENSTEMON AURIBERBIS* Pennell

323735. Col. No. V64-558. Three miles east of Canyon City, Colo., Highway 50.

323736. Col. No. V65-42. East of Canyon City, Colo., along U. S. 50. Flowers low, purple.

323737. *PENSTEMON BARBATUS* ssp. *TORREYI* (Benth.) Keck

Col. No. V64-369. Along Utah 117 near divide south of Teasdale, Utah. Flowers red, slender stemmed.

323738 to 323741. *PENSTEMON BRIDGESII* A. Gray.

323738. Col. No. V64-380. High ridge on Utah 117 south of Boulder, Utah. Plants old, large; growing in roadside ditch. Winter hardy.

323739. Col. No. V64-424. Four miles east of Cedar City, Utah, in rocky wash along Utah 14.

323740. Col. No. V64-438. County Road 11 miles above Kanarraville, Utah.

323741. Col. No. V64-454. East end of tunnel leaving Zion National Park, Utah.

323742. *PENSTEMON BUCKLEYI* Pennell

Col. No. V64-384. In dune sand along Utah 117 northeast of Escalante, Utah. Foliage glaucous, lanceolate; stems stiff, upright, to 2 feet high; flowers blue, seed black.

323743 and 323744. *PENSTEMON CAESPITOSUS* Nutt. ex A. Gray

323743. Col. No. V64-408. Dry desert prairie 8 miles west of Bryce Canyon National monument and in pines on adjacent hillsides; very common at this site, north of Utah 12. Rock plant, low, 1 inch high, 12 inches across; flowers small, blue, in leaf axils. Staminode bearded.

323744. Col. No. V65-16. One mile west of Burnt Fork, Wyo. Prostrate, free flowering.

323745. *PENSTEMON LINARIOIDES* A. Gray subsp. *COMPACTIFOLIUS* Keck

Col. No. V65-17. Four miles northwest of Lone Tree, Wyo., alluvial soil of intermittent stream. Prostrate, flowers blue.

323746. *PENSTEMON CLUTEI* A. Nels.

Col. No. V64-522. Sunset Crater National Monument, Ariz., growing in cinders. To 30 inches high; glaucous, foliage serrate; flowers rose.

323747. *PENSTEMON COMARRHENUS* A. Gray

Col. No. V64-373. High elevations between Teasdale and Escalante, Utah. Plants tall; basal rosettes good, flower pedicles long.

323748. *PENSTEMON CRANDALLII* ssp. *GLABRESCENS* (Pennell) Keck

Col. No. V64-499. Dry valley 15 miles northwest Saguache, Colo. Plant low; flowers small, pale blue; foliage slender, greyish.

323749 to 323755. *PENSTEMON EATONII* A. Gray

323749. Col. No. V64-374. In weathered sandstone $\frac{1}{2}$ mile south of Boulder, Utah. Stems coarse; leaves rough, lanceolate; flowers tubular, red.

323750. Col. No. V64-426. Four miles east of Cedar City, Utah. Foliage rough, dull green; leaves lanceolate, flowers red.

323650 to 323931—Continued

323749 to 323755—Continued

323751. Col. No. V64-547. River crossing on Highway 54 south of Escalante, Utah.
323752. Col. No. V65-28. 'Scarlet bugler'. Deer Creek Reservation, 4 miles above Wildwood, Utah, on talus at cliff base.
323753. Col. No. V65-29. Fishlake Road, 7 miles southwest of Salina, Utah. Flowers red.
323754. Col. No. V66-46. Five miles north of U. S. 40 along Utah 208. Near northeast range of species.
323755. Col. No. V66-50. Two miles below Soldier Summit, Utah, north of Highways 6 and 50. Flowers red.
323756. *PENSTEMON EATONII* ssp. *UNDOSUS* (M. E. Jónes) Keck
Col. No. V64-378. 'Scarlet bugler'. In sand 5 miles south of Boulder, Utah.
323757. *PENSTEMON FREMONTII* Torr. & Gray
Col. No. V65-11. Dry wash along Highway 318, northwest of Sunbeam, Colorado. Low *Habroanthus*; leaves purbulent.
323758. *PENSTEMON GLABER* Pursh Scrophulariaceae.
Col. No. V64-478. Cheyenne Horticultural Field Station. Combines longevity with good plant habit. Good dark blue form.
323759. *PENSTEMON HAVARDII* A. Gray Scrophulariaceae.
Col. No. V64-510. Chisos Mountains, Big Bend National Park, Tex. Elevation 6,000 feet. Tall; leaves broad, glaucous; flowers red.
- 323760 and 323761. *PENSTEMON LARICIFOLIUS* ssp. *EXILIFOLIUS* (A. Nels.) Keck
323760. Col. No. V64-472. Road ditch along Highway 287, 2 miles northwest of Tie Siding, Wyo. Cespitose perennial to 1 inch high; leaves linear, bright green; flower stems to 6 inches high; flowers white.
323761. Col. No. V66-1. Ten miles north of Medicine Bow, Wyo. Low plant with cespitose crown; fruiting culms to 6 inches; florets lavender.
- 323762 and 323763. *PENSTEMON LEIOPHYLLUS* Pennell
323762. Col. No. V64-412. One mile west of Utah 14 and U. S. 89 junction. Foliage glaucous.
323763. Col. No. V64-414. Seventeen miles west of Utah 14 and U. S. 14 and U. S. 89 junction, in spruce-fir association, Utah. High elevation. Upright; leaves very smooth. May be *P. laevis*. Blue-flowered species belonging in Section *Habroanthus*.
- 323764 to 323766. *PENSTEMON LINARIOIDES* A. Gray
323764. Col. No. V64-423. In mouth of canyon, four miles east of Cedar City, Utah. Low, spreading; flowers blue; foliage fine.
323765. Col. No. V64-464. Seven miles north of Cedaredge, Colo., on backslope of highway 65; also in adjacent pastures among trees and shrubs. Rock plant; low, spreading; flowers axillary, blue, long blooming.
323766. Col. No. V64-557. Thirty-five miles east of Durango, Colo., Highway 160.
323767. *PENSTEMON LINARIOIDES* ssp. *OMPACTIFOLIUS* Keck
Col. No. V64-519. Mogollon Rim, Schnebly Hill Road above Sedona, Ariz.

323650 to 323931—Continued**323768. PENSTEMON MENSARUM Pennell**

Col. No. V64-467. North slope of Grand Mesa, 31 miles south of Cedar-edge, Colo.

323769 to 323772. PENSTEMON OUSTERHOUTII Pennell

323769. Col. No. V64-342. Eight miles southwest of Gypsum, Colo., in overgrazed pasture, pinon-juniper association. Foliage glaucous, stems stiff, upright.

323770. Col. No. V64-347. Three miles west Glenwood Springs, Colo., south-facing slope in stand of Gambell's oak. Slender, upright; fruit borne on long pedicles.

323771. Col. NA. V65-76. Eighteen miles north of Egnar, Colo., along highway, growing in weathered sandstone. To 20 inches high; foliage thick, glaucous; leaves obovate.

323772. Col. No. V65-82. East slope Mt. Ellen, 20 miles south of Handsville, Utah. Plant low, glaucous; stems stiff, upright.

323773 to 323776. PENSTEMON PALMERI A. Gray Palmer penstemon.

323773. Col. No. V64-425. Rocky wash along Utah 14, four miles east of Cedar City, Utah. Plant tall, glaucous; leaves uniformly connate cauline.

323774. Col. No. V64-436. Rocky road 8 miles above Kanarrville, Utah.

323775. Col. No. V64-450. Oak Creek Canyon, Zion National Park, Utah.

323776. Col. No. V64-525. Eight miles north of Kanab, Utah.

323777 and 323778. PENSTEMON SCARIOSUS Pennell

323777. Col. No. V64-453. Beyond east end of tunnel on Utah 15 leaving Zion Park, Utah.

323778. Col. No. V64-456. Near summit east of Zion National Park tunnel on Highway 15, Utah.

323779 and 323780. PENSTEMON SECUNDIFLORUS Benth. in DC.

323779. Col. No. V64-484. Two miles east of junction of Colorado Highways 72 and 119, west of Denver, Colo.

323780. Col. No. V65-9. One and one-half miles north of Big Creek Ranch, Highway 230, Wyo.

323781 to 323794. PENSTEMON STRICTUS Benth.

323781. Col. No. V64-344. Twenty miles southwest of Gypsum, Colorado, Cottonwood Pass road. Upright; flowers dark blue.

323782. Col. No. V64-365. Sand, eight miles south of Teasdale, Utah. Foliage glaucous; rosette stage, no bloom.

323783. Col. No. V64-366. Sandy soil, 8 miles southeast of Teasdale, Utah. Stems upright; flowers blue; corolla 0.8 inches long, bracts tiny, erose; anthers woolly, staminoide, glabrous.

323784. Col. No. V64-370. Fifteen miles east of Escalante, Utah, along Utah 117.

323785. Col. No. V64-458. Twelve miles north of Durango, Colo., along Colorado 550. Mat forming.

323786. Col. No. V64-459. Eighteen miles north of Durango, Colo., along Colorado 550.

323787. Col. No. V64-465. Seven miles north of Cedaredge, Colo., on backslope of Colorado 65.

323650 to 323931—Continued

323781 to 323794—Continued

323788. Col. No. V64-466. One mile north of Cedaredge, Colo., on back-slope of Colorado 65 in rocks and clay.

323789. Col. No. V65-6. Rocky bank 3 miles west of Woods Landing, Wyo.

323790. Col. No. V65-8. One and one-half miles north of Big Creek Ranch, Wyo., along Highway 230.

323791. Col. No. V65-90. West slope of Uncompahgre Plateau, Colo. Elevation 8,000 feet. Flowers dark.

323792. Col. No. V66-19. Half Moon Lake near Pinedale, Wyo.

323793. Col. No. V66-81. Thirty-seven miles north of Loma, Colo., on Colorado 139.

323794. Col. No. V66-82. U. S. 40, west side of Rabbit Ear Pass, Colo. Elevation 7,200 feet.

323795. *PENSTEMON UNILATERALIS* Rydberg

Col. No. V64-565. Three miles east of Nederland, Colo.

323796 to 323798. *PENSTEMON UTAHENSIS* Eastw.

323796. Col. No. V64-376. Sandy wash 5 miles south of Boulder, Utah. Foliage glaucous; stems to 15 inches; leaves lanceolate.

323797. Col. No. V64-396. Four miles west of Escalante, Utah, along Highway 54. Plant low; basal leaves glaucous, oblanceolate.

323798. Col. No. V64-400. Five miles west of Escalante, Utah, on sandstone cliff face. Plant long lived; flowering scapes 30 inches long; leaves glaucous, margins entire.

323799. *PENSTEMON VIRENS* Pennell ex Rydb.

Col. No. V64-448. Eight miles south of Kanarraville on road to Zion National Park, Utah. To 2 feet high; leaves smooth, glossy, green, outer ends obscurely serrate; flowers blue in dense clusters; lower bracts leaflike, the upper tiny. Attractive.

323800 and 323801. *PENSTEMON WATSONII* A. Gray

323800. Col. No. V64-368. Along Utah 117 between Teasdale and Boulder, Utah, rocky soil. High elevation. To 18 inches high, mint clustered; flowers dark blue, in dense clusters.

323801. Col. No. V64-371. Along Utah 117 between Bicknell and Escalante, Utah. High elevation. Common in dry mountain meadows. To 18 inches high; flowers small, small, blue, in clusters.

323802. *PENSTEMON WHIPPLEANUS* A. Gray

Col. No. V66-83. U. S. 40, west side of Rabbit Ear Pass, Colorado. Elevation 7,200 feet. Flowers white.

323803. *PENSTEMON* sp.

Col. No. V64-343. Cottonwood Pass road southwest of Gypsum, Colorado, in overgrazed pasture. Mint cluster. Possibly same as P.I. 303456; not genetically distinct.

323804. *PENSTEMON* sp.

Col. No. V64-346. Three miles west of Glenwood Springs, Colorado; south slope in stand of Gambell's oak. Foliage glaucous; stems to 30 inches; seed large, light brown; leaves ovate-lanceolate.

323805. *PENSTEMON* sp.

Col. No. V64-358. Sunglow Park, 3 miles east of Bicknell, Utah. Basal foliage spatulate, glaucous; seed stalks upright.

323650 to 323931—Continued

323806. PENSTEMON sp.

Col. No. V64-359. Sunglow Park, 3 miles east of Bicknell, Utah. Plant low, glaucous; foliage narrow, to 7 inches high.

323807. PENSTEMON sp.

Col. No. V64-377. Seven miles south of Boulder, Utah, along Utah 117, in sandy soil. Plant low; foliage glaucous, lanceolate, mat forming; seed large, black.

323808. PENSTEMON sp.

Col. No. V64-395. Four miles west of Escalante, Utah, along Highway 54. Leaves basal, lanceolate, deep green; stalks upright; seed large, black.

323809. PENSTEMON sp.

Col. No. V64-397. Five miles west of Escalante, Utah, along Utah 54. Leaves low rosette, lanceolate.

323810. PENSTEMON sp.

Col. V64-402. Eight miles west of Escalante, Utah, along Utah 54. In rosette and fruiting stage. Possibly *P. barbatus*.

323811. PENSTEMON sp. Scrophulariaceae.

Col. No. V64-407. Twenty miles west of Escalante, Utah; dry overgrazed pasture. Basal rosettes dark green; flowers blue.

323812. PENSTEMON sp.

Col. No. V64-409. Red canyon east of first tunnel on Utah 12 west of Escalante, Utah. Plant low; foliage glaucous.

323813. PENSTEMON sp.

Col. No. V64-428. East of Cedar City, on rocky banks along Utah 14. To 2 feet high; stems in clumps, many, red; foliage shiny bright green; leaves lanceolate, undulate margins.

323814. PENSTEMON sp.

Col. No. V64-439. Eleven miles above Kanarraville, Utah, on road to Zion National Park. Foliage glaucous; spikes strict.

323815. PENSTEMON sp.

Col. No. V64-441. Twelve miles above Kanarraville, Utah. To 40 inches high; foliage glaucous; leaves not perfoliate.

323816. PENSTEMON sp.

Col. No. V64-447. Fifteen miles southeast of Cedar City, Utah, on road to Zion National Park. Tall; foliage glaucous.

323817. PENSTEMON sp.

Col. No. V64-451. Oak Creek Canyon, Zion National Park, Utah.

323818. PENSTEMON sp.

Col. No. V64-468. One mile inside north entrance to Grand Mesa National Forest in boulder field along old Colorado 65.

323819. PENSTEMON sp.

Col. No. V64-474. West of Cheyenne, Wyo., 9 miles east of Happy Jack Recreation Area on Happy Jack Road. Low, mat forming; drought tolerant. Possibly *P. rydbergii*.

323820. PENSTEMON sp.

Col. No. V64-479. Two miles east of Vail, Colorado, along U. S. 6. Low, mat forming.

323650 to 323931—Continued

323821. PENSTEMON sp.

Col. No. V64-483. Fifteen miles west of Denver, Colo., along Highway 72. Narrow leaved.

323822. PENSTEMON sp.

Col. No. V64-486. Along James Creek above Lyons, Colo. To 30 inches high; flowers blue. Resembles *P. unilateralis*.

323823. PENSTEMON sp.

Col. No. V64-490. Five miles east of junction of Colorado Highways 72 and 119 in rocky soil. Colorado. Stems ascending; flowers blue. Resembles *P. glaber*.

323824. PENSTEMON sp.

Col. No. V64-491. Southwest facing rocky slope, Colorado, Highway 72. Low, mat forming; flowers mint cluster.

323825. PENSTEMON sp.

Col. No. V64-493. Left Hand Creek road above Lyons, Colo. Resembles *P. glaber*.

323826. PENSTEMON sp.

Col. No. V64-502. Sandia Crest Road, Cibola National Forest, N. Mex. Elevation 10,000 feet. Perennial, low, mat forming.

323827. PENSTEMON sp.

Col. No. V64-526. Eight miles north of Kanab, Utah, in sand. Tall; foliage green; flowers blue.

323828. PENSTEMON sp.

Col. No. V64-527. Zion National Park, Utah, red rock.

323829. PENSTEMON sp.

Col. No. V64-533. East of tunnel, Zion National Park, Utah. Tall; leaves scabrous, turning red in fall.

323830. PENSTEMON sp.

Col. No. V65-7. West of Woods Landing, Wyo., 1 mile east of entrance to Chimney Park, second camp, gravelly roadside. To 8 inches high; flowers light blue; lobes large, open faced.

323831. PENSTEMON sp.

Col. No. V65-21. Three miles southeast of Evanston, Wyo. To 18 inches high; flowers interrupted spikes, dark blue; foliage slightly glaucous.

323832. PENSTEMON sp.

Col. No. V65-25. North of Uintas, 35 miles south of Evanston, Wyoming, along Utah 150. To 18 inches high; flowers interrupted spikes, sky blue; foliage slightly glaucous.

323833. PENSTEMON sp.

Col. No. V65-27. One-fourth mile east of Coop Creek, along Utah 150. Low, mat forming.

323834. PENSTEMON sp.

Col. No. V65-30. Fish Lake Road, 7 miles southwest of Salina, Utah. Low scabrous; foliage glaucous; flowers pale blue.

323835. PENSTEMON sp.

Col. No. V65-33. Five miles northeast of Fremont, Utah. To 20 inches high; leaves thick, broad, glaucous; flowers blue to lavender.

323650 to 323931—Continued**323836. PENSTEMON sp.**

Col. No. V65-67. South of Fredonia, Ariz., along U. S. 89. Medium high; foliage glaucous.

323837. PENSTEMON sp.

Col. No. V65-69. Twelve miles southeast of Panguitch, Utah, along Utah 12, Red Canyon recreation area. Low, glaucous, spreading by short rhizomes.

323838. PENSTEMON sp.

Col. No. V66-10. South of Lander, Wyo., on a gravelly southeast slope. Flowers blue.

323839. PENSTEMON sp.

Col. No. V66-15. Near Boulder, Wyo. Flowers mint clustered; blue.

323840. PENSTEMON sp.

Col. No. V66-27. Eighteen miles northeast of Alpine, Wyo., along U. S. Highway 26 and 89. Flowers blue.

323841. PENSTEMON sp.

Col. No. V66-36. Two miles south of Wyoming state line, along Utah 150. Flowers blue.

323842. PENSTEMON sp.

Col. No. V66-39. Above Kamas, Utah, along Utah 150. Plant suffruticose.

323843. PENSTEMON sp.

Col. No. V66-40. Five miles east of Woodland, Utah, along Utah 35.

323844. PENSTEMON sp.

Col. No. V66-41. Seven miles east of Woodland, Utah, along Utah 35.

323845. PENSTEMON sp.

Col. No. V66-42. East of summit on Utah 35.

323846. PENSTEMON sp.

Col. No. V66-44. Along Utah 208, 4 miles north of junction with U. S. 40. Foliage glaucous; leaves entire; browsed by deer.

323847. PENSTEMON sp.

Col. No. V66-47. Along country road on west side of Strawberry Lake, Utah, south of U. S. 40. To 20 inches high; pubescent; not conspicuously second; flowers blue.

323848. PENSTEMON sp.

Col. No. V66-48. Along road south of U. S. 40, 6 miles south of Strawberry Lake, Utah, in rocky soil among aspen. To 16 inches high; second; flowers bright blue.

323849. PENSTEMON sp.

Col. No. V66-49. One mile south of pass over mountain range that lies between U. S. 40 and U. S. 50 and 6 miles south of Strawberry Lake, Utah. Elevation 6,500 feet.

323850. PENSTEMON sp.

Col. No. V66-51. Three miles below Soldier Summit, Utah, north of U. S. Highways 6 and 50.

323851. PENSTEMON sp.

Col. No. V66-54. Five miles east of Hiawatha, along Utah 122. Foliage glaucous; browsed by deer.

323650 to 323931—Continued

323852. *PENSTEMON* sp.

Col. No. V66-57. Bear Creek Canyon, 10 miles west of Huntington, Utah, along Utah 31. Mint cluster.

323853. *PENSTEMON* sp.

Col. No. V66-60. Six miles east of pass, along Utah 31. Flowers blue; secund.

323854. *PENSTEMON* sp.

Col. No. V66-61. Near pass, along Utah 31, in full sun. To 2 feet high; flowers bright blue; spike secund.

323855. *PENSTEMON* sp.

Col. No. V66-63. Along Utah 29, east slope of range 20 miles above Orangeville, Utah. Flowers blue.

323856 and 323857. *PERAPHYLLUM RAMOSISSIMUM* Nutt. ex Torr. & A. Gray
Rosaceae.

323856. Col. No. V64-446. 'Squaw apple'. Fifteen miles above Kanarraville, Utah, along route to Zion National Park. Shrub, low; branches arching.

323857. Col. No. V65-62. 'Squaw apple'. South of Panquitch, Utah, along U. S. 89. Shrub.

323858. *PHILADELPHUS MICROPHYLLUS* A. Gray Saxifragaceae.

Col. No. V64-563. 'Mock orange'. Bright Angel Trail, Grand Canyon National Park, Arizona. Elevation 8,300 feet. Shrub, small.

323859. *PHLOX* sp. Polemoniaceae.

Col. No. V65-20. Dry wash, 4 miles northwest Lone Tree, Wyo. Perennial, cespitose; flowers white.

323860. *PHLOX* sp.

Col. No. V65-34. Thirteen miles northeast of Fremont, Utah. Low, mat forming; flowers pink.

323861 and 323862. *PINUS FLEXILIS* James Pinaceae. **Limber pine.**

323861. Col. No. V64-473. West of Cheyenne, Wyo., along Happy Jack road about 1 mile west of Happy Jack sports area.

323862. Col. No. V64-476. Two miles southeast of Pine Bluffs, Wyo.

323863 and 323864. *PLATANUS WRIGHTII* S. Wats. Platanaceae.

323863. Col. No. V64-517. Aqua Fria Wash, Ariz., west of U. S. 79, one mile north of Dugas turnoff. Elevation 3,800 feet.

323864. Col. No. V64-520. Seven Springs Campground, north of Cave Creek, Ariz.

323865. *POPULUS FREMONTII* var. *WISLIZENI* S. Wats. Salicaceae.

Col. No. V66-68. Along washes in San Rafael Swell area 25 miles southeast Castle Dale, Utah. Desert cottonwood. Seed germinated in 24 hours.

323866. *POTENTILLA ANSERINA* L. Rosaceae.

Col. No. V66-86. East of Woods Landing, along Wyoming 230. Very silvery form.

323867 to 323869. *POTENTILLA FRUTICOSA* L. **Shrubby cinquefoil.**

323867. Col. No. V64-488. Two miles east of Junction of Colorado Highways 72 and 119, dry hillside. Shrub, low; flowers yellow.

323868. Col. No. V65-44. At Medicine Wheel National Monument, Big-horn Mountains, Wyo. Very dwarf, spreading habit; 2 to 6 inches high by 12 to 18 inches wide.

323650 to 323931—Continued

323867 to 323869—Continued

323869. Col. No. V65-91. Columbine Pass, Uncompahgre Plateau, Colo. Elevation 10,000 feet. Foliage pubescent; flowers large.

323870. POTENTILLA sp.

Col. No. V64-471. Dry, rocky, south slope among mountain mahogany and juniper; two miles south of Colorado-Wyoming line along Highway 287. Low, spreading by rhizomes; leaves pinnate; flowers small, yellow.

323871. POTENTILLA sp.

Col. No. V66-5. Two miles north of Kortez Dam, Alcova, Wyoming, on rocky slope. Plant rhizomatose; foliage bright green; flowers bright yellow, ½ inch across.

323872. POTENTILLA sp.

Col. No. V66-37. On pass, Utah 150, near Summit County Marker (County line). Herbaceous; foliage glaucous; flowers yellow.

323873. PRUNUS SPINOSA L. Rosaceae.

Blackthorn.

Col. No. V65-1. 'Plum'. Colorado Fish and Wildlife Nursery, 1.5 miles north of Junction of Colorado 14 and U. S. 87 northeast of Ft. Collins, Colorado. Shrub, dense, spiny, to 8 feet high at 7 years of age; fruits many, dried on plant.

323874 and 323875. PTELEA TRIFOLIATA L. Rutaceae.

Hop-tree.

323874. Col. No. V64-524. 'Wafer Ash'. Above Sedona, Ariz. Elevation 6,000 feet. Shrub to 8 feet high; fruit large, in clusters; stems bare.

323875. Col. No. V65-85. 'Wafer Ash'. Along Forestry Road, 20 miles south of Fredonia, Ariz.

323876 to 323879. PURSHIA TRIDENTATA (Pursh) DC. Rosaceae.

323876. Col. No. V64-389. 'Bitterbush'. Highway backslope on Highway 54, 3 miles west of Escalante, Utah; dry site. Clone 1. Low, wide spreading by natural layers.

323877. Col. No. V64-390. Three miles west of Escalante, Utah. Plant prostrate.

323878. Col. No. V64-430. Fourteen miles east of Cedar City, Utah, on Highway 14; growing on sterile 3 to 1 backslope. Elevation 8,900 feet. Plants stoloniferous, to 1 foot high, spreading 12 to 18 inches; free rooting.

323879. Col. No. V64-475. Nine miles east of Happy Jack Recreation area, west of Cheyenne, Wyo.

323880 to 323883. QUERCUS GAMBELII Nutt. Fagaceae.

323880. Col. No. V64-349. 'Scrub oak'. Three miles west of Glenwood Springs, Colo., rocky west slope.

323881. Col. No. V64-381. Calf Creek Recreation area, northeast of Escalante, Utah. Trees and fruits larger than normal.

323882. Col. No. V64-411. One mile west of Junction of Utah 14 and U. S. 89.

323883. Col. No. V64-443. 'Scrub oak'. Twelve miles above Kanarrville, Utah, on mountain road. Shrubby; thicket forming.

323884. QUERCUS TURBINELLA Greene

Col. No. V64-452. Oak Creek Canyon, Zion National Park, Utah. Evergreen scrub oak; leaves glaucous, holly like.

323650 to 323931—Continued

323885 to 323887. *RHUS TRILOBATA* Nutt. Anacardiaceae.

323885. Col. No. V65-84. Forest road southwest of Big Springs on Kiabab Forest, Ariz. Shrub, large; berries small, bright red, showy; lacks pubescence on fruit.

323886. Col. No. V66-52. Three miles below Soldiers Summit, Utah, north of U. S. Highways 6 and 59, Strawberry Lake road.

323887. Col. No. V66-78. South of bridge, Utah 128, 30 miles northeast of Moab, Utah. Strong growing, 15 feet high by 35 feet wide; fruit clusters 1 foot long. Sandy soil.

323888. *RHUS TRILOBATA* var. *SIMPLICIFOLIA* (Greene) Barkl.

Col. No. V65-61. 'Skunk bush'. In sandstone, Black Box Canyon, 12 miles west, 4 miles south of Green River, Utah. Unifoliate form of *R. trilobata*, attractive.

323889. *RIBES CEREUM* Dougl. Saxifragaceae.

Col. No. V64-341. 'Squaw current'. One mile north of Georgetown, Colo., in area of dune sand where wind drifts sand into the clumps, making large mounds. Appears mound layered; fruit red.

323890. *RIBES ODORATUM* Wendl.

Col. No. V66-32. Two miles south of Evanston, Wyo., Bear River cutoff. Foliage shining, glabrous with reduced lobes.

323891. *RIBES* sp.

Col. No. V64-432. High Mountain Meadow two miles north of Highway 14 on road to Cedar Breaks National Monument, Utah. Shrub very thorny, dense, roundtopped; fruit insipid, red.

323892. *ROSA ACICULARIS* Lindl. Rosaceae.

Col. No. V64-469. 'Wild rose'. One mile south of north entrance of Grand Mesa National Forest along Colorado 65. To 4 feet high; fruit large, red, showy.

323893. *ROSA* sp.

Col. No. V64-434. 'Wild rose'. Twelve miles east of Cedar City, Utah on Highway 14 in deep shade. *R. acicularis* type. Foliage good; fruit red.

323894. *ROSA* sp.

Col. No. V64-440. 'Wild rose'. Ten miles above Kanarraville on road to Zion National Park, Utah. Plant to 6 feet high; branches arching; 7 to 9 leaflets on dull green leaves; thorns scattered; large, showy, globose red fruit.

323895. *ROSA* sp.

Col. No. V64-494. Two miles west of Buckham Park, Left Hand Creek road. Above Lyons, Colo. Nine-foliolate leaves, coarse serrations, slender infrastipular thorns, not hooked. Fruit bright red, globose, 0.6 inches diameter; calyx persistent.

323896. *ROSA* sp.

Col. No. V64-496. Portland, Colorado. Plant shrubby, tall; on south talus slope.

323897. *ROSA* sp.

Col. No. V65-35. Roadside, 13 miles northeast of Fremont, Utah. Plant low; flowers bright pink; strong infrastipular recurved thorn.

323898. *SALIX* sp. Salicaceae.

Col. No. V66-34. Nine miles south of Evanston, Wyo., Bear River cutoff, wet meadow, full sun. Low, spreading, 5 feet high by 10 feet wide. Foliage silvery.

323650 to 323931—Continued

323899. *SALVIA REGLA* cav. Labiatae.

Col. No. V64-509. Chisos Mountains, Big Bend National Park. Elevation 6,500 feet. Shrub to 3.5 feet high; flowers red, very showy, long blooming season.

323900. *SAMBUCUS COERULEA* Raf. Caprifoliaceae.

Col. No. V65-66. Roadside between Fredonia, Ariz. and Kiabab Plateau in very dry site. Shrub, large; fruit glaucous in large flat clusters.

323901. *SAMBUCUS RACEMOSA* L. European red elder.

Col. No. V64-431. South of Cedar Breaks National Monument, Utah, among alpine fir. Elevation 9,800 feet. Elderberry, clumps to 4 feet, dense; fruit red.

323902. *SAMBUCUS* sp.

Col. No. V64-367. Dry rocky slope southeast of Teasdale, Utah. Shrub, strong growing; fruits blue.

323903. *SAMBUCUS* sp.

Col. No. V64-482. Near Maryville, Colo. Elevation 8,600 feet. Bush to 3 feet high; flowers white; berries red.

323904. *SAMBUCUS* sp.

Col. No. V65-51 1-2. Nursery at Brooks, Alberta, Canada. Apparently hybrid of *S. pubens* crossed with a black-fruited form among seedlings in nursery.

323905 and 323906. *SHEPHERDIA CANADENSIS* (L.) Nutt. Eleagnaceae.
Russet buffalo-berry.

323905. Col. No. V64-433. Rim of Cedar Breaks National Monument, Utah, 6 miles northeast of headquarters. Elevation 10,000 feet. Shrub, low, spreading, fruit red.

323906. Col. No. V65-50. Dry wash, Sweetgrass Hills, east of Sweetgrass, Mont. Plant low, 18 inches high by 4 feet wide; fruit red, showy.

323907 to 323913. *SHEPHERDIA ROTUNDIFOLIA* Parry

323907. Col. No. V64-355. Sunflower Park, 3 miles east of Bicknell, Utah. Common on rocky canyon walls. Evergreen shrub, compact, roundtopped; leaves fleshy, scruffy, grey green.

323908. Col. No. V64-379. Sixteen miles south of Boulder, Utah, along Utah 117, in sandstone.

323909. Col. No. V64-385. Twenty-five miles northeast of Escalante, Utah, in sandstone.

323910. Col. No. V64-401. Eight miles west of Escalante, Utah, on dry sandstone slope.

323911. Col. No. V64-528. On cliffs east of tunnel, Utah 15, Zion National Park, Utah.

323912. Col. No. V64-528-31. On cliffs east of tunnel, Utah 15, Zion National Park, Utah.

323913. Col. No. V65-32. Sunflower Park, Bicknell, Utah. Shrub.

323914. *STANLEYA PINNATA* (Pursh) Britton Cruciferae.

Col. No. V65-4. Black Box Canyon, 12 miles west and 8 miles south of Green River, Utah, in sandstone. Perennial, long lived; leaves glaucous; flowers yellow, in spikes to 3 feet long.

323915. *SYMPHORICARPOS LONGIFLORUS* Gray Caprifoliaceae.

Col. No. V64-445. Fifteen miles above Kanarraville toward Zion National Park, Utah. Two to 3 feet high by 5 feet wide; leaves small; berries white, showy.

323650 to 323931—Continued

323916. SYMPHORICARPOS sp.

Col. No. V65-24. West slope above Bear River, 10 miles southwest of Evanston, Wyo. Shrub, dense, low.

323917. TAMARIX sp. Tamariceae.

Col. No. V66-69. Twenty-five miles southeast of Castle Dale, Utah. Compact.

323918 and 323919. YUCCA BACCATA Torr. in Emory Liliaceae.

323918. Col. No. V64-403. Eight miles west of Escalante, Utah, along Highway 54. Small.

323919. Col. No. V64-442. Twelve miles southeast of Kanarrville, Utah, along road toward Zion National Park, Utah. Elevation 9,000 feet.

Tall-branched inflorescence; leaves wide, dark green.

323920. YUCCA GLAUCA Nutt.

Col. No. V64-340. 'Soap weed'. Sandy soil, 25 miles south of Yuma, Colo. Smaller than Nebraska form.

323921 to 923923. YUCCA HARRIMANNIAE Trel.

323921. Col. No. V64-351. 'Yucca'. In clay and rocks, 15 miles northwest of Grand Junction, Colorado. Cespitose or short stemmed; leaves $\frac{5}{8}$ by 12 inches, sharp tipped, filamentose margins. Dwarf form; flowering scapes 4 feet.

323922. Col. No. V65-59. Sandstone along Black Box Road 4 miles west, 4 miles north of Green River, Utah. Leaves short, stiff; pods constrictive.

323923. Col. No. V65-64. East slope of Uncompahgre Plateau west of Delta, Colo.

323924. YUCCA sp.

Col. No. V64-375. Five miles south of Boulder, Utah, in sandy wash. Dwarf form; leaves to 8 inches long, margins with curled white fibers, tends to be rhizomatous.

323925. YUCCA sp.

Col. No. V65-54. Along U. S. 89 between Carmel Junction and Knab, Utah, in sandy soil. Acaulescent in appearance, glaucous concave in ventral side, 1 to 2 cm. wide to 40 cm. long; almost fleshy.

323926. YUCCA sp.

Col. No. V65-58. Along Colorado 80, north of Egnar, Colo. Leaves narrow, filamentose on margins.

323927. YUCCA sp.

Col. No. V65-60. Utah. In sandstone.

323928. YUCCA sp.

Col. No. V65-63. Along U. S. 89 Alternate in Vermilion Cliffs, Ariz. In sand. Probably same as (P.I. 323925).

323929. YUCCA sp.

Col. No. V65-65. In sandstone along Colorado 80 north of Egnar, Colo. Leaves very narrow, filamentose.

323930. ZAUSCHNERIA GARRETTII A. Nels. Onagraceae.

Col. No. V64-435. 'Firechalice'. Along rocky road 8 miles northeast of Kanarrville, Utah, in south facing talus slope. Perennial, 1 to 2 feet high; leaves lanceolate; flowers scarlet, showy.

323650 to 323931—Continued

323931. *ZINNIA GRANDIFLORA* Nutt. Compositae.

Col. No. V65-40. Six miles east of Canyon City, Colo. Perennial, compact herb, showy 6-inch mounds; rays yellow, disk orange; flowers 1 inch across.

323932 and 323933. *JUNIPERUS CONFERTA* Parlatores Pinaceae.

From Japan. Cuttings and seeds presented by Masami Sato, Biological Institute, Ibaraki University, Mito. Received Nov. 21, 1967.

323932. Cuttings.

323933. Seeds.

323934. *MEDICAGO SATIVA* L. Leguminosae. **Alfalfa.**

From New Zealand. Seeds presented by Crops Research Division, Department of Scientific and Industrial Research, Christchurch. Received Nov. 21, 1967.

Creeping form.

323935. *HIBISCUS LASIOCARPUS* Cav. Malvaceae.

From the United States. Seeds collected in 1960 by H. W. Miller, Regional Plant Materials Service, Soil Conservation Service, Portland, Oreg. Received Nov. 27, 1967.

Collected in Berry Patch Gun Club, Sutter County, Calif.

323936. *ARACHIS GLABRATA* Benth. Leguminosae.

From Uganda. Plants presented by the Senior Botanist, Kawanda Research Station, Kampala. Received Nov. 27, 1967.

323937. *CUCUMIS MELO* L. Cucurbitaceae. **Muskmelon.**

From Afghanistan. Seeds collected by G. Gordon Hadley, World Health Organization, Kabul. Received Nov. 27, 1967.

Collected in Mazar-i-Sharif province.

323938 to 323941.

From England. Seeds presented by B. D. Dowker, National Vegetable Research Station, Wellesbourne, Warwick. Received Nov. 27, 1967.

323938. *BETA VULGARIS* L. Chenopodiaceae. **Sugar beet.**

'Avon Early'. Bolt resistant.

323939. *BRASSICA NAPUS* L. Cruciferae. **Winter rape.**

From New Zealand. Resistant to cabbage aphid.

323940 and 323941. *LACTUCA SATIVA* L. Compositae. **Lettuce.**

323940. 'Avoncrisp'. Mildew resistant.

323941. 'Avonde fiance'. Mildew resistant.

323942 and 323943.

From Taiwan. Cuttings collected by J. L. Creech, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Nov. 29, 1967.

323942. *ACTINIDIA CHINENSIS* var. *SETOSA* H. L. Li Dilleniaceae.

Col. No. 1523. From a single plant. Moist woods, climbing on rocks and trees, Alishan. Elevation 2,200 meters.

323943. *OSMANTHUS AURANTIACUS* var. *THUNBERGII* (Makino) Honda Oleaceae.

Col. No. 1516. On sunny slopes of Mt. Morrison. Elevation 3,100 meters.

323944 to 323946. SACCHARUM (hybrid) Gramineae.**Sugarcane.**

From Barbados. Cuttings presented by the West Indies Sugar Cane Breeding Station, Groves, St. George. Received Nov. 30, 1967.

323944. B-3337.

323945. B-6130.

323946. B-59162.

323947. BOUGAINVILLEA sp. Nyctaginaceae.

From Kenya. Plants presented by Parks Superintendent, City Parks Department; Nairobi. Received Nov. 30, 1967.

'Natalii'.

323948. QUERCUS ILEX var. GRAMUNTIA (L.) Loud. Fagaceae.

From France. Seeds presented by the Station Amelioration des Plantes Forestieres Nancy. Received Dec. 1, 1967.

323949 to 323954.

From Hungary. Scions and seeds presented by the National Institute of Agrobotany, Tapioszele. Received Dec. 1, 1967.

323949 to 323951. JUGLANS REGIA L. Juglandaceae.

Persian walnut.

323949. 'Milotai 10'. Scions.

323950. 'Tiszacsecsi 10'. Scions.

323951. 'Tiszacsecsi 83'. Scions.

323952 to 323954. JUGLANS REGIA L.

Persian walnut.

323952. 'Milotai'. Seeds.

323953. 'Tiszacsecsi 10'. Seeds.

323954. 'Tiszacsecsi 83'. Seeds.

323955 and 323956. AVENA SATIVA L. Gramineae.**Common oats.**

From Japan. Seeds presented by Takeshi Kumagai, Hokkaido Agricultural Experiment Station, Hitsujigaoka, Sapporo, Hokkaido. Received Dec. 4, 1967.

323955. 'Otsuku'.

323956. 'Zenshin'.

323957 to 324063.

From the Union of Soviet Socialist Republics. Seeds collected by Howard J. Brooks, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Dec. 4, 1967.

323957. ARONIA MELANOCARPA (Michx.) Ell. Rosaceae.

Black chokeberry.

Col. No. B-85. Stavropol Botanic Garden, Stavropol. Plant to 1.2 m. high. Fruit 1.3 cm. diameter, purple black, edible.

323958 and 323959. CORNUS MAS L. Cornaceae.

Cornelian-cherry.

323958. Col. No. B-121. About 50 km. west of Pyatiborsk, in pasture near village of Bekesheuskaya. Elevation 540 m. Rainfall 16 inches. Tree to 3 m. high; fruit 1.7 cm. diameter by 2.3 cm. long, dark red, edible.

323959. Col. No. B-140. Pyatiborsk. Donated by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

323650 to 323931—Continued

323960. *CORYLUS* sp. Betulaceae.

Col. No. B-116. Teberda Resort. Wooded areas around stream. Elevation 1,300 m. Tree spreading, about 3.6 m.; fruit sparse.

323961. *CORYLUS* sp.

Col. No. B-122. About 50 km. west of Pyatiborsk, in pasture near village of Bekesheuskaya. In edge of forest. Elevation 540 m.

323962. *COTINUS COGGYRIA* Scopoli Anacardiaceae. Smoke tree.

Col. No. B-139. Pyatiborsk. Donated by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

323963. *CRATAEGUS ALTAICA* (Loud.) Lange Rosaceae.

Col. No. B-33. In Botanic Garden at Ascania-Nova, Ukraine. To 3.6 m. high, spreading; fruit 1 cm. diameter, orange.

323964. *CRATAEGUS MOLLIS* Scheele

Col. No. B-41. In Botanic Garden at Ascania-Nova, Ukraine. Tree to 4.5 m. high, very thorny; fruit 2 cm., red, very showy.

323965. *CRATAEGUS* sp.

Col. No. B-73. About 20 to 25 km. south-southeast of Stavropol. Elevation 660 m. on forested plateau, in open field. To 3 m. high; fruit 1.3 cm. long, 0.9 cm. wide, red, very showy.

323966. *CRATAEGUS* sp.

Col. No. B-74. About 20 to 25 km. south-southeast of Stavropol. Elevation 660 m. on forested plateau, in open. Tree 3 m. by 3 m.; fruit 1.0 cm. diameter by 1.5 cm. long, red, showy.

323967. *CRATAEGUS* sp.

Col. No. B-149. Three km. southeast of Kislovodsk. Elevation 800 m., steep terrain, open. Tree 4.5 m. high, ornamental; fruit 1.8 cm. diameter, 2.1 cm. long, red, large.

323968. *DELPHINIUM* sp. Ranunculaceae.

Col. No. B-30. From natural reserve at Ascania-Nova, Ukraine. Rainfall about 320 mm. To 45 cm. high; flowers 0.5 cm. wide, blue. Very drought resistant.

323969. *DIANTHUS* sp. Caryophyllaceae.

Col. No. B-29. From natural reserve, Ascania-Nova, Ukraine. Yearly rainfall about 320 mm. 25-30 cm. high; flowers 1.5 cm. diameter, cerise. Most plants already dead.

323970. *DIANTHUS* sp.

Col. No. B-42. Six km. northwest of Stavropol, sparse forest area, shallow alkaline soil. About 400-500 mm. rainfall. Elevation 570 m. Flowers single, pink; similar to P.I. 323969, with little variation among plants.

323971. *DIANTHUS* sp.

Col. No. B-75. About 130 km. south of Stavropol, in area of Mt. Barahaka. Collections made just south of village of Elycha. Elevation 990 m. Plant 30-35 cm. high, in open. Flowers solitary, 5 petals, deeply serrated, white, very fragrant, about 2 cm. wide.

323972. *ELAEAGNUS ANGUSTIFOLIA* L. Elaeagnaceae. Russian olive.

Col. No. B-141. Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

323650 to 323931—Continued

323973. *LINUM AUSTRIACUM* L. Linaceae. Austrian flax.

Col. No. B-43. Six km. northwest of Stavropol, Sparse forest area, shallow alkaline soil. About 400-500 mm. rainfall. Elevation 570 m. To 30 cm.; flowers 2.5 dm. diameter, 5 petals, solitary, pale blue, lasting only 1 or 2 days.

323974. *MALUS PRUNIFOLIA* (Willd.) Borkh. Rosaceae. Pearleaf crabapple.

Col. No. B-38. In Botanic Garden at Ascania-Nova, Ukraine. Fruit 1.5 cm. to 2.0 cm.; stem 3.0 cm.

323975 to 323994. *MALUS SYLVESTRIS* Mill. Apple.

About 20 km. south southwest of Stavropol, on forested plateau. Rainfall 500 mm. Elevation 600 m.

323975. Col. No. B-54. Origin Finland. Tree small; fruit yellow, 2.5 cm. diameter, stem 1.5 cm., very astringent.

323976. Col. No. B-55. Fruit to 3.0 cm., green, very tart; stem 1 cm. long.

323977. Col. No. B-58. Tree old, in abandoned orchard; fruit early, yellow green, nice finish, to 6.25 cm., sour but edible.

323978. Col. No. B-65. Old abandoned orchard. Varieties appeared to be collected from wild. Tree old; fruit to 5 cm. diameter, yellow undercolor, 50 percent red, tart but edible.

323979. Col. No. B-80. About 136 km. south of Stavropol, in area of Mt. Barahaka, south of village of Elycha. Elevation 660 m. Fruit conic to 4.0 cm., stem 1.0 cm., yellow green.

Teberda Resort. Wooded areas around stream. Elevation 1,330 m.

323980. Col. No. B-88. Fruit 3.0 cm. diameter, green, very tart.

323981. Col. No. B-89. Fruit 2.0 cm. diameter, yellow green, tart.

323982. Col. No. B-91. Fruit 3.0 cm. diameter, yellow, tart.

Dombay. Elevation 1,600 m. Forester's home orchard. Highest elevation where apples were found.

323983. Col. No. B-92. Fruit to 4.0 cm. diameter, yellow green, tart.

323984. Col. No. B-93. Tree not thriving. Fruit to 6.0 cm. diameter, green, tart.

Teberda Resort. East into wooded canyon. Elevation 1,600 m. Apples and pears found from 1,330 to 1,500 m.

323985. Col. No. B-97. Fruit to 3.0 cm. diameter, green, very tart.

323986. Col. No. B-98. Fruit to 2.5 cm. diameter, green, very tart, immature.

Thirteen km. north of Teberda Resort, in open pastures.

323987. Col. No. B-103. Fruit to 3.0 cm. diameter, green, very astringent; stem 1.0 cm. long, very thin.

323988. Col. No. B-107. Fruit to 3.0 cm., yellow green, tart.

323989. Col. No. B-108. Fruit 2.5 cm., yellow green, very tart.

323990. Col. No. B-110. Fruit to 2.0 cm., green, very astringent.

About 50 km. west of Pyatiborsk, near village of Bekesheuskaya, Pasture, in open. Elevation 540 m.

323991. Col. No. B-127. Fruit to 4.5 cm., yellow green, edible; stem slender, 2.5 cm. long. Better of wild apples seen.

323957 to 324063—Continued

323975 to 323994—Continued

323992. Col. No. B-129. Fruit 5.0 cm., green, very good flavor.

323993. Col. No. B-135. Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

323994. Col. No. B-152. Near Pyatiborsk, in shelterbelt. Collected from about 10 wild seedling trees all much the same. Fruit 3.75 cm., green, tart, late.

323995. MALUS sp.

Col. No. B-39. Locally called *M. niedzwetzkyana*. In Botanic Garden at Ascania-Nova, Ukraine. Fruit 1.3 cm. diameter, 1.5 cm. long; deciduous calyx; stem 2.5 to 3.0 cm.

323996. MALUS sp.

Col. No. B-40. Locally called *M. zumi*. In Botanic Garden at Ascania-Nova, Ukraine. Fruit 0.8 to 1.0 cm., round, yellow red; deciduous calyx; stem 3.0 to 3.5 cm.

323997. MALUS sp.

Col. No. B-45. Six km. northwest of Stavropol, sparse forest area, shallow alkaline soil. About 400 to 500 mm. rainfall. Elevation 570 m. Fruit 3.0 cm. diameter, green, very bitter; stem 1.5 cm. Tree low, spreading, because of low rainfall and shallow soil.

323998. MALUS sp.

Col. No. B-50. Six km. northwest of Stavropol, edge of sparse forest area, shallow alkaline soil. Elevation 570 m. About 400 to 500 mm. rainfall. Fruit mostly on ground, to 3.5 cm. diameter, yellow, very sour and bitter; inconspicuous lenticels; stem 0.5 cm.

323999. MORUS ALBA L. Moraceae.

White mulberry.

Col. No. B-138. Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

324000 and 324001. PRUNUS AVIUM L. Rosaceae.

Sweet cherry.

324000. Col. No. B-95. Teberda Resort, east into wooded canyon. Elevation 1,600 m. Apples and pears found from 1,330 to 1,500 m. Large, wild black cherry growing in front yard of Forester's house. Fruit to 1.2 cm., purple black, extremely bitter; stem to 4.0 cm., very hardy, bears fruit annually.

324001. Col. No. B-131. Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

324002 to 324010. PRUNUS CERASIFERA DIVARICATA (Ledeb.) C. Schneid

Cherry plum.

324002. Col. No. B-48. Six km. northwest of Stavropol, sparse forest area, shallow alkaline soil. About 400 to 500 mm. rainfall. Elevation 570 m. Tree to 3 m., bushy, growing with apple and hawthorn, spiny. Fruit 2.0 cm. diameter, yellow, tasty.

About 20 to 25 km. south southeast of Stavropol, on forested plateau. Elevation 660 m.

324003. Col. No. B-68. Fruit largest seen in area, 2.4 cm. diameter, slightly elongated, deep yellow.

324004. Col. No. B-69. Fruit 2.0 cm., yellow speckled with red.

324005. Col. No. B-70. Fruit 2.4 cm diameter, pale yellow.

323957 to 324063—Continued

324002 to 324010—Continued

324006. Col. No. B-72. Fruit 2.4 cm. diameter, red skin and flesh, late ripening.

324007. Col. No. B-117. Assumed to be propagated from a selection found in wild. Fruit 3.0 cm., orange, flesh yellow. Largest seen.

324008. Col. No. B-118. Fruit 2.3 cm. diameter, very deep red.

324009. Col. No. B-123. About 50 km. west of Pyatiborsk, in pasture near village of Bekesheuskaya. Elevation 540 m. Large selection, fruit 2.7 cm. diameter, yellow.

324010. Col. No. B-132. Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

324011 to 324012. PRUNUS DOMESTICA L. Common plum.

324011. Col. No. B-81. About 20 to 25 km. south southeast of Stavropol. About 660 m. on forested plateau, near abandoned farmhouse. Appears same as 'Stanley Prune' of commerce.

324012. Col. No. B-157. Forester's orchard, near Camel Mountain, 18 km. west of Zheleznovodsk. Fruit to 4.0 cm., blue black, flesh yellow, pit completely free, very good. Much fruit still on tree.

324013. PRUNUS FRUTICOSA Pall. European dwarf cherry.

Col. No. B-84. Stavropol Botanic Garden, Stavropol. To 9 m. high. Fruit 1.0 cm. diameter; stem 2.5 cm.

324014 to 324018. PRUNUS MANDSHURICA (Maxim.) Koehne Manchurian apricot.

About 20 to 25 km. south southeast of Stavropol, on forested plateau. Elevation 660 m.

324014. Col. No. B-64. Wild apricot. Trees to 6 m. high, in shelterbelt. Fruit all on ground.

324015. Col. No. B-82. Wild apricot. In shelterbelt. One tree, only 7 fruit, very late; fruit to 5.0 cm., very good.

324016. Col. No. B-133. Locally called "Armeniaca vulgaris". Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

3.2 km. southeast of Kislovodsk. Elevation 800 m., steep terrain, open.

324017. Col. No. B-145. Tree vigorous; fruit 3.0 cm. diameter, round, stone partly cling; late ripening mostly on ground.

324018. Col. No. B-147. Tree very vigorous, fruit 3.0 cm. wide, 3.8 cm. long, freestone, sweet, good; prolific, very late ripening, about half still on tree.

324019. PRUNUS PERSICA (L.) Batch Peach.

Col. No. B-153. In forestry planting at Pyatiborsk. Seedlings from wild tree found on collective farm in area. Very uniform; fruit 4.0 to 4.5 cm. diameter, white, cling, green when ripe, acid but quite good, very late, fall from tree while firm.

324020. PRUNUS SALICINA Lindl. Japanese plum.

Col. No. B-143. 3.2 km. southeast of Kislovodsk. Elevation 800 meters, steep terrain, open, abandoned orchard. Tree three m. high; fruit 3.0 cm., green, round; clingstone. Very delicious.

324021 and 324022. PRUNUS SPINOSA L. Blackthorn.

323957 to 324063—Continued

324021 and 324022—Continued

324021. Col. No. B-51. Six km. northwest of Stavropol, sparse forest area, shallow alkaline soil. About 400 to 500 mm. rainfall. Elevation 570 m. Bush to 1.5 m. high, very productive; spiny; fruit to 1.6 cm. diameter, very tart; stem 0.5 cm.; bloom on fruit.

324022. Col. No. B-71. About 20 to 25 km. south southeast of Stavropol, on forested plateau. Elevation 660 m. Bush to 3 m. high. Tallest *P. spinosa* seen.

324023. PRUNUS VULGARIS Schur

Col. No. B-130. Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

324024. PRUNUS sp.

Col. No. B-119. Two dried fruit and one pit. From traveller at Teberda Resort. Origin unknown.

324025. PRUNUS sp.

Col. No. B-120. No data. From traveller at Teberda Resort. Origin unknown.

324026 to 324050. PYRUS COMMUNIS L.

Common pear.

Six km. northwest of Stavropol, sparse forest area, shallow alkaline soil. About 400 to 500 mm. rainfall. Elevation 570 m.

324026. Col. No. B-46. Tree very large in deep forest, multiple trunk, to 45 cm. in diameter, to 30 cm. in diameter; fruit pyriform to 2.5 cm., much grit, large core, past ripe; stem 2.5 cm.

324027. Col. No. B-47. Tree in open; trunk 42 cm. diameter; fruit to 2.8 cm., round, extreme grit, large core; stem 3.0 cm.

324028. Col. No. B-52. About 20 km. south southwest of Stavropol, on forested plateau. Elevation 600 m. Rainfall about 500 mm. Tree large, in open; fruit to 3.0 cm., ovate, moderate grit, astringent, early to ripen; stem 2.5 cm.

About 20 to 25 km. south southeast of Stavropol, on forested plateau. Elevation 660 m.

324029. Col. No. B-60. Tree very large, in old abandoned orchard; best of pears; fruit 5.0 cm. diameter, pyriform, yellow, early, much grit, astringent; stem 3.0 cm.

324030. Col. No. B-62. Tree extremely large, 55 cm. diameter; in old abandoned orchard. Fruit 4 cm. diameter, pyriform, yellow, showy calyx, very gritty, astringent; stem 5 cm.

About 20 to 25 km. south southeast of Stavropol, on forested plateau. Elevation 660 m.

324031. Col. No. B-66. Tree old; fruit to 2.5 cm., pyriform, yellow, much grit, astringent.

324032. Col. No. B-67. Tree very old; fruit to 4.0 cm., largest seen thus far, moderate grit, large core, astringent, showy calyx.

About 85 m. south of Stavropol, in area of Mt. Barahaka. Collections made south of village of Elycha. Elevation 990 m.

324033. Col. B-76. Fruit oval, to 2.5 cm. diameter, green, moderate grit, astringent; stem 3.0 cm.

324034. Col. No. B-78. Fruit 2.5 cm., moderate grit; stem 1.0 cm.

324035. Col. No. B-79. Fruit to 3.5 cm., round, relatively little grit, showy calyx; stem 3.0 cm.

323957 to 324063—Continued

324026 to 324050—Continued

324036. Col. No. B-90. Teberda Resort. Wooded areas around stream. Elevation 1,330 m. Fruit to 3.0 cm., considerable grit; stem 2.5 cm.

Teberda Resort, east into wooded canyon. Elevation 1,600 m. Apples and pears found from 1,330 to 1,500 m.

324037. Col. No. B-96. Fruit to 2.5 cm. diameter, ovate, very gritty, considerable russet, edible, nonastringent; stem 2.5 cm.

324038. Col. No. B-99. Fruit to 2.5 cm., much grit, astringent.

324039. Col. No. B-100. Fruit to 2.0 cm., pyriform, very astringent, showy calyx; stem 2.5 cm.

324040. Col. No. B-101. Fruit to 3.0 cm., large core, moderate grit, showy calyx; stem 2.5 cm.

324041. Col. No. B-102. At home of forester in Teberda Resort village. Huge seedling tree, very vigorous, probably over 100 years; fruit 2.5 cm., large core, moderate grit, very astringent, showy calyx; stem 3.5 cm.

Eight miles north of Teberda Resort.

324042. Col. No. B-104. In old abandoned seedling orchard. Fruit to 2.5 cm., round, very gritty, very astringent; stem 3.0 cm.

324043. Col. No. B-105. In old abandoned seedling orchard. Fruit to 2.5 cm., ovate, moderate grit, very astringent; stem 3.0 cm.

324044. Col. No. B-106. In open pastures. Fruit 2.0 cm. diameter, ovate, little grit, astringent; stem 2.0 cm.

324045. Col. No. B-109. Fruit 2.5 cm., ovate, large core, much grit; stem 2.0 cm.

324046. Col. No. B-111. Tree very large; fruit ovate, yellow, small core, very astringent, no grit; stem 3.0 cm.

About 50 km. west of Pyatiborsk, in pasture near village of Bekesheuskaya. Elevation 540 m.

324047. Col. No. B-124. Fruit to 3.0 cm., round, green, much grit, very astringent, showy calyx; stem 1.5 cm.

324048. Col. No. B-125. Tree small; fruit to 2.6 cm. diameter, less astringent than most, much grit, large core, yellow green, round; stem 2.0 cm.

324049. Col. No. B-134. Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

324050. Col. No. B-155. Near Mount Razealka, Zheleznovodsk. Elevation 930 m. Tree spreading; fruit 2.5 cm., round, green, astringent, gritty, very showy calyx with extremely long lobes.

324051. PYRUS sp.

Col. No. B-35. Botanical Garden, Ascania-Nova, Ukraine. Typical; no grit.

324052. PYRUS sp.

Col. No. B-36. Botanical Garden, Ascania-Nova, Ukraine. Probably a *P. betulaefolia* hybrid as there was no grit, fruit ovate, conspicuous lenticels, 2.0 cm. diameter, four carpels, stem 4.0 cm., leaves serrate, no pubescence.

324053. PYRUS sp.

Col. No. B-37. Tree dwarf, 1.8 m. high and wide; trunk 7.5 cm. diameter, fruit 2.0 cm., round, deciduous calyx, 4 carpels, little grit; stem 3.5 to 4.0 cm., leaves serrate.

323957 to 324063—Continued

324054. *RHODODENDRON FLAVUM* G. Don Ericaceae.

Col. No. B-77. About 136 km. south of Stavropol, in area of Mt. Barahaka, south of village of Elycha. Plants in shade along edge of forest, growing with fruit trees; flowers reportedly yellow.

324055. *RHODODENDRON LUTEUM* Sweet

Col. No. B-142. About 3.2 km. southeast of Kislovodsk, steep terrain, open. Elevation 800 m. Plants to 1 m. high, massed, considerable variability.

324056. *RIBES AUREUM* Pursa Saxifragaceae. **Slender golden currant.**

Col. No. B-137. Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

324057. *ROSA CANINA* L. Rosaceae. **Dog rose.**

Col. No. B-136. Pyatiborsk. Presented by L. T. Bobro, Senior Engineer, Forestry Department, Stavropol. Lowest winter temperature -5°C .

324058. *RUBUS* sp.

Col. No. B-56. About 20 km. south southwest of Stavropol, on forested plateau. Rainfall 500 mm. Elevation 600 m. Prostrate in moist areas; plant thorny, berries with 3 to 12 drupelets to 6 mm. each, seeds large, purple, tart.

324059. *RUBUS* sp.

Col. No. B-126. Blackberry identical with P.I. 324058 except more drupelets and berries. To 30 cm. high, creeping, small thorns, bloom present on fruit.

324060. *SCABIOSA ORIENTALIS* (L.) Lag. Dipsacaceae.

Col. No. B-44. Six km. northwest of Stavropol, sparse forest area, shallow alkaline soil. About 400 to 500 mm. rainfall. Elevation 570 m. Plant to 61 cm. flowers 2.5 to 3.0 cm. wide, solitary, pale yellow.

324061. *SORBUS ACUPARIA* L. Rosaceae. **European mountain-ash.**

Col. No. B-86. Stavropol Botanic Garden, Stavropol. Tree. Extremely large; fruit 1 cm. diameter, clusters, bright red, showy.

324062. *VACCINIUM* sp. Ericaceae.

Col. No. B-115. Wild blueberries. Southeast of Teberda Resort, above the tree line. Elevation 2,700 m. Plants very small; fruits 0.7 cm. diameter, few. Growing among *Rhododendron caucasicum*.

324063. *VIOLA* sp. Violaceae.

Col. No. B-57. About 20 km. south southwest of Stavropol, on forested plateau. Rainfall 500 mm. Elevation 600 m. Plant to 15 cm., pale yellow.

324064. *COTONEASTER* sp. Rosaceae.

From England. Plants presented by Exbury Gardens Ltd., Exbury, Southampton, Hampshire. Received Dec. 6, 1967.

324065. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

From the Philippines. Seeds presented by Bureau of Plant Industry, Department of Agriculture and Natural Resources, Manila. Received Dec. 11, 1967.

'Nagcarlan'. Strain 1.

324066 to 324068. *GLYCINE MAX* (L.) Merr. Leguminosae.

Soybean.

From Rhodesia. Seeds presented by J. R. Tattersfield, Department of Research and Specialist Services, Ministry of Agriculture, Salisbury Research Station, Salisbury. Received Dec. 6, 1967.

324066 to 324068—Continued

324066. 'Geduld'.
 324067. 'Hernon 237'.
 324068. 'Hernon 273'.

324069. BRASSICA OLERACEA var. CAPITATA L. Cruciferae. Cabbage.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Dec. 7, 1967.
 'Drum Head'.

324070 to 324076.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Dec. 8, 1967.

324070 to 324075. TRITICUM AESTIVUM L. Gramineae.

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| 324070. Hyb. 65. | 324073. NP. 829. |
| 324071. 'Riddley'. | 324074. NP. 830. |
| 324072. C. 286. | 324075. NP. 832. |

324076. TRITICUM DICOCCUM Schrank Emmer. NP. 200.**324077 and 324078.**

From Brazil. Plant material collected by E. P. Imle, American Cocoa Research Institute, Washington, D. C. Received Dec. 8, 1967.

324077. HELICONIA sp. Musaceae.

Col. No. 140. Garden of E. T. Bullard, above Rio de Janeiro. Flowers bright red, last several weeks when cut. Plants.

324078. PRUNUS PERSICA (L.) Batsch Rosaceae. Peach.

Col. No. 139. Seeds extracted from fruit purchased in Rio de Janeiro. Fruit small, round; flesh white; perfumed, freestone.

324079 to 324098.

From Ireland. Plants received from National Botanic Garden, Glasnevin, Dublin 9. Received Dec. 11, 1967.

324079 to 324085. CHAMAECYPARIS LAWSONIANA (Murray) Parl. Pinaceae. Lawson falsecypress.

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| 324079. 'Ericoides'. | 324083. 'Nidiformis'. |
| 324080. 'Knowfieldensis Glauca'. | 324084. 'Pygmaea Argentea'. |
| 324081. 'Luteanana'. | 324085. 'Shawii'. |
| 324082. 'Mimina Gracilis'. | |

324086. CHAMAECYPARIS LAWSONIANA f. LUTEA (Gard. Chron.) Schneider 'Compacta'.**324087. CHAMAECYPARIS OBTUSA f. NANA (Carr.) Beissner 'Argentea'.****324088 and 324089. CHAMAECYPARIS OBTUSA f. TETRAGONA Rehder Hinoki falsecypress.**

324088. 'Flabelliformis'.
 324089. 'Minima'.

324090. CHAMAECYPARIS PISIFERA (Sieb. & Zucc.) Endl. Sawara retinospora.

'Plumosa Flavescens'.

324091. CHAMAECYPARIS PISIFERA f. AUREA (Gord.) Rehder
'Pygmaea'.

324092. CHAMAECYPARIS PISIFERA f. PLUMOSA (Carr.) Beissn.
'Nana'.

324093. CRYPTOMERIA JAPONICA (L.f.) D. Don Pinaceae. Common cryptomeria.

'Pygmaea'.

324094. JUNIPERUS CHINENSIS L. Pinaceae. Chinese juniper.

'Kaizuka'.

324095. JUNIPERUS COMMUNIS var. SAXATILIS Pall. Juniper.

324096. JUNIPERUS VIRGINIANA L. Eastern redcedar.

'Aurea Nana'.

324097. THUJA ORIENTALIS L. Pinaceae. Oriental arborvitae.

'Minima Glauca'.

324098. THUJA ORIENTALIS f. JUNIPEROIDES (Carr.) Asch. & Graeb.

324099 to 324119.

From New Zealand. Plants received from Duncan and Davies Ltd., Westtown,
New Plymouth. Received Dec. 11, 1967.

324099. CHAMAECYPARIS LAWSONIANA (Murray) Parl. Pinaceae. Lawson falsecypress.

'B. D. Edington'.

324100. JUNIPERUS SABINA L. Pinaceae. Savin juniper.

'Knap Hill'.

324101 and 324102. MAGNOLIA CAMPBELLII Hook. f. & Thoms. Magnolia-
ceae.

324101. No Data.

324102. 'Charles Raffill'.

324103. MAGNOLIA DAWSONIANA Rehd. & Wils.

324104. MAGNOLIA DELAVAYI Franch.

324105. MAGNOLIA DENUDATA Desr. Yulan.

324106. MAGNOLIA LILIFLORA Desr. ex Lam.

324107. MAGNOLIA MOLLICOMATA W.W. Sm.

324108. MAGNOLIA SARGENTIANA ROBUSTA Rehd. & Wils.

324109. MAGNOLIA SIEBOLDII K. Koch Oyama magnolia.

324110. MAGNOLIA SINENSIS (Rehd. & Wils.) Stapf.

324111 and 324112. MAGNOLIA × SOULANGIANA Soul.

324111. 'Amabilia'.

324112. 'San Jose'.

324113. MAGNOLIA × SOULANGIANA Soul.

324114. MAGNOLIA × SOULANGIANA var. LENNI (van Houtte) Rehd.
'Alba'.

324099 to 324119—Continued324115. *MAGNOLIA SPRENGERI* Pampanini.324116. *MAGNOLIA THOMPSONIANA* (Loud.) C. de Vos324117. *MAGNOLIA* × *VEITCHII* Bean324118. *MAGNOLIA* × *WATSONII* Hook f.324119. *THUJA ORIENTALIS* f. *BEVERLEYENSIS* (Rehd.) Rehd. Pinaceae.**324120. PYRUS COMMUNIS L. Rosaceae. Common pear.**

From Sweden. Scions presented by Institutet for Vaxtforodning av Frukt Och Bar Balsgard, Fjalkestad. Received Dec. 11, 1967.

'Herzogin Elsa'.

324121. PYRUS sp. Rosaceae.

From Italy. Scions presented by Osservatorio Fitopatologica, Largo Santa Susanna, Rome. Received Dec. 11, 1967.

No. 41. 'Djebel Goutava'.

324122. FESTUCA cf. PRATENSIS Huds. Gramineae.

From the Union of Soviet Socialist Republics. Seeds collected by agricultural explorers Quentin Jones and Wesley Keller, Crops Research Division, Beltsville, Maryland. Numbered Dec. 28, 1967.

Contaminant from P.I. 314523.

324123. BANDEIRAEA SIMPLICIFOLIA (Vahl ex DC.) Benth. Leguminosae.

From Ghana. Seeds collected January 1966 for S. B. Penick & Company, New York at request of Hynson, Westcott & Dunning Pharmaceutical Laboratory, Baltimore, Maryland. Received Dec. 11, 1967.

Lot No. BHC-96.

324124 to 324134. PYRUS COMMUNIS L. Rosaceae. Common pear.

From Italy. Scions presented by Istituto di Frutticoltura, Rome. Received Dec. 11, 1967.

324124. 'Akce'.

324130. 'I P. 1100'.

324125. 'Bella Di Diugno'.

324131. 'Itala'.

324126. 'Butirra Di Roma'.

324132. 'Mellina'.

324127. 'Fragrante'.

324133. 'Mora'.

324128. 'Grata'.

324134. 'Musta Bey'.

324129. 'I P. 258'

324135. 'Porporata'.

324136 to 324138.

From England. Plants purchased from Hillier and Sons, Winchester. Received Dec. 11, 1967.

324136. *ABIES CHENSIENSIS* Van Tieghem ex Sargent Pinaceae.324137. *PICEA ABIES* (L.) Karst. Pinaceae.

Norway spruce.

324138. *PICEA BICOLOR* var. *REFLEXA* Shirasawa & Koyama**324139 to 324150.**

From Malaysia. Seeds presented by Department of Agriculture, Kuala Lumpur. Received Dec. 12, 1967.

324139 to 324148. *VIGNA SINENSIS* (Torner) Savi Leguminosae.

324139 to 324150—Continued**324139 to 324148—Continued**

324139. 'E. G. Crowder'. Heavy grayish mottling, medium size.
 324140. I. C. 394. Medium small, purplish gray mottling, distinct black rim around hilum.
 324141. I. C. 409. Purplish gray mottling, medium small.
 324142. New Era 2/59. Light tan, very small.
 324143. New Era 8/59. Dark cream colored, very small, nearly round.
 324144. New Era 10/59. Light tan, medium small, oblong flattened.
 324145. No. 4. Dark brown, medium small, flattened.
 324146. No. 5. Black, flattened.
 324147. No. 6. Purplish black, flat kidney shaped.
 324148. Philippines. Cream colored, brownish eye, medium.

324149 and 324150. VIGNA SESQUIPEDALIS (L.) Fruwirth**Yardlong cowpea.**

324149. 'Light Green Podded'. Irregular cream and tan color patches; seed medium size, normal bean shape.
 324150. 'Long Beans'; local. Dark tan, elongated kidney shape, medium size.

324151 to 324158. TRITICUM AESTIVUM L. Gramineae.

From Kenya. Seeds presented by R. Little, Department of Agriculture, Plant Breeding Station, P. O. Njoro. Received Dec. 12, 1967.

- | | |
|--------------------|--------------------|
| 324151. 'Catcher'. | 324155. 'Primex'. |
| 324152. 'Gabrino'. | 324156. 'Salmayo'. |
| 324153. 'Lenana'. | 324157. 294P. |
| 324154. 'Menco'. | 324158. 354P. |

324159 to 324181.

From the Union of Soviet Socialist Republics. Seeds collected by Howard J. Brooks, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Dec. 13, 1967.

324159. CRATAEGUS sp. Rosaceae.

Col. No. B-8. In forest 26 km. northwest of Yalta. Elevation 540 m. Tree 4.2 m.; fruit 0.8 cm. wide, 1.0 cm. long; stem 1.5 to 2.0 cm.

324160. CRATAEGUS sp.

Col. No. B-18. In open area 72 km. from Yalta to Bakhchisaray. Elevation 360 m. Tree 6 m. high, thriving in full sun; fruit 1.0 cm. long, 0.7 cm. wide; 2 to 3 carpels; pedicel 3.5 to 4 cm. long.

324161. MALUS PUMILA var. PARADISIACA (Medic.) C. Schneid. Rosaceae.

Col. No. B-12. 'Wild apple'. Along road about 32 km. northwest of Yalta. Elevation 900 m. Tree medium sized, fruit 3.0 cm. diameter; stem 0.5 cm.

324162 and 324163. MALUS SYLVESTRIS Mill.**Apple.**

324162. Col. No. B-9. In forest 32 km. northwest of Yalta. Elevation 900 m. Tree small, barely alive in heavy forest; fruit 3.0 to 3.5 cm.; stem 0.8 cm.; not ripe.

324163. Col. No. B-16. About 56 km. on road to Bakhchisaray into second mountain range. Elevation 600 m. Tree of good size, growing in deep forest.

324159 to 324181—Continued

324164. *DUCHESNEA INDICA* (Andr.) Focke Rosaceae.

Col. No. B-83. Botanic Garden, Stavropol. Plant prostrate, spreading; leaves glossy; fruit 1.5 cm., tasteless, red, large double calyx easily removed.

324165 and 324166. *PRUNUS CERASIFERA* var. *DIVARICATA* (Ledeb.) C. Schneid Rosaceae.

323165. Col. No. B-27. Along road west of Yalta, Crimea. Extremely fruitful; fruit 2.0 cm. diameter, yellow.

324166. Col. No. B-28. Along road west of Yalta, Crimea. Extremely fruitful; fruit 2.0 cm. diameter, maroon.

324167. *PRUNUS SPINOSA* L.

Blackthorn.

Col. No. B-23. Thirteen km. west of Yalta, Crimea. Elevation 300 m. Plant to 0.9 m. high.

324168 to 324170. *PYRACANTHA COCCINEA* Roemer Rosaceae. **Firethorn.**

324168. Col. No. B-20. South of Bakhchisaray, in open area. Elevation 300 m. Plant low, spreading; fruit 0.7 cm. diameter, deep orange.

324169. Col. No. B-21. Open hillside, about 16 km. west of Yalta. Elevation 300 m. Upright, 1.4 m. high; fruit 0.7 cm. diameter, deep orange clusters, extremely showy.

324170. Col. No. B-22. Open hillside, about 16 km. west of Yalta. Elevation 300 m. Prostrate form, 2 m. wide, 30 cm. high; fruit same as P.I. 324169 but clusters not as full.

324171 and 324172. *PYRUS COMMUNIS* L. Rosaceae.

Common pear.

324171. Col. No. B-4. Wild pear. About 56 km. on road from Yalta to Bakhchisaray, over the first range of mountains, into second range. Elevation 600 m. growing on edge of road in deep forest. Tree very tall, trunk diameter 25 cm.; very little growth. Fruit 2.5 cm. to 3 cm.; stem 1 cm.; calyx showy.

324172. Col. No. B-11. Wild pear. About 32 km. northwest of Yalta in heavy forest. Elevation 600 m. Tree medium sized, little new growth; fruit pyriform, 3.5 cm. to 4 cm. diameter, moderate grit; stem 1.5 to 2.0 cm., showy calyx.

324173 to 324179. *PYRUS ELAEAGNIFOLIA* Pall.

324173. Col. No. B-7. Twenty-six km. northwest of Yalta, in forest area. Elevation 540 m. Tree 4.5 m. high, very slow growing. Fruit 2 cm. or less, calyx persistent and very showy; stem 1.6 cm.

324174. Col. No. B-10. Wild pear. In heavy forest about 32 km. northwest of Yalta. Elevation 900 m. Tree tall, very old, trunk 56 cm. diameter; fruit 2.0 cm., stem 3.0 to 3.5 cm., very showy calyx.

324175. Col. No. B-13. Wild pear. About 35 km. northwest of Yalta on road from Yalta to Bakhchisaray, in open on plateau. Elevation 990 m. Plant bushlike, to 0.9 m. high; fruit 1.5 cm. diameter, slightly pyriform; stem 2.5 to 3.5 cm., showy calyx; leaves only slightly pubescent.

324176. Col. No. B-14. Wild pear. About 37 km. northwest of Yalta on road to Bakhchisaray, on edge of plateau near forest of second mountain range. Elevation 900 m. Tree to good size, trunk 20 cm. diameter; fruit 2 cm., nearly round; very large and showy calyx; extreme grit; leaves very pubescent.

In open on top of mountain near forester house between castle and gates of Baydar. Elevation 750 m.

324177. Col. No. B-24. Wild pear. Tree small, 2.4 m. high; fruit 2 cm. diameter, nearly round; extremely gritty; stem 1.0 to 1.5 cm., large calyx.

324159 to 324181—Continued**324173 to 324179—Continued**

324178. Col. No. B-25. Wild pear. Tree large, trunk 30 cm., estimated to be 150 years old, very fertile with many seeds; fruit 1.8 cm. diameter, nearly round; very gritty; stem 2.0 cm., leaves small.

324179. Col. No. B-26. Wild pear. Tree 3.6 m. high, smaller tree in "pear forest", probably 40 years old; fruit 2.5 cm. diameter, nearly round, moderate grit.

324180. PYRUS sp.

Col. No. B-15. Wild pear. About 56 km. northwest of Yalta on road to Bakhchisaray into second mountain range. Elevation 600 m. Tree of good size, adjacent to road; fruit to 2.5 cm. diameter, excessive grit, very showy calyx; stem 2.0 to 2.5 cm.; moderate pubescence on leaves.

324181. SORBUS DOMESTICA L. Rosaceae. Service tree.

Col. No. B-19. South of Bakhchisaray, in open area. Elevation 300 m. Tree large, to 7.5 m. high; fruit 1.5 cm. wide, 2.0 cm. long, ovate, 5 carpels, few seeds per fruit. Only tree seen in area.

324182 and 324183. FRAGARIA (hybrid). Rosaceae.

From Japan. Plants presented by the Ministry of Agriculture and Forestry, Shimokuriyagawa, Morioka. Received Dec. 14, 1967.

324182. 'Benizuru'.

324183. 'Fukuba'.

324184 to 324186. ZOYSIA JAPONICA Steud. Gramineae.**Japanese lawngrass.**

From Korea. Seeds and stolons presented by the College of Agriculture, Seoul National University, Suwon. Received Dec. 18, 1967.

324184. No. 301. Mt. Chilbo, Suwon. Stolons.

324185. No. 302. Mt. Chilbo, Suwon. Seeds.

324186. No. 303. Mt. Huasan, Kyunggido. Seeds.

324187 to 324190. GLYCINE MAX (L.) Merr. Leguminosae.**Soybean.**

From the Philippines. Seeds presented by J. C. Moomaw, International Rice Research Institute, Los Banos, Laguna, through Theodore Hymowitz, Urbana, Illinois. Numbered Dec. 19, 1967.

324187. 'Black Manchurian'. Highest yielding in test at Laguna.

324188. No. 486. Bred at University of Philippines, College of Agriculture, Los Banos.

324189. 'Taichung-E24'. Originally from Taiwan Agricultural Research Institute, Taipei, Taiwan.

324190. 'Taichung-E32'. Originally from Taiwan Agricultural Research Institute, Taipei, Taiwan.

324191. HELIANTHUS ANNUUS L. Compositae. Sunflower.

From the United Arab Republic. Seeds presented by Yayah Salah, Food and Agriculture Organization of the United Nations, Cairo. Received Dec. 20, 1967.

324192 to 324229. AVENA STERILIS L. Gramineae.**Animated oats.**

From Israel. Seeds presented by Faculty of Agriculture, The Hebrew University of Jerusalem, Rehovot. Received Dec. 20, 1967.

324192 to 324229—Continued

324192. AS-1.	324211. AS-21.
324193. AS-2.	324212. AS-22.
324194. AS-3.	324213. AS-23.
324195. AS-4.	323214. AS-25.
324196. AS-5.	324215. AS-26.
324197. AS-6.	324216. AS-27.
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324208. AS-17.	324227. AS-38.
324209. AS-18.	324228. AS-39.
324210. AS-19.	324229. AS-40.

324230. *CAMELLIA CRAPNELLIANA* Tutch. Theaceae.

From Hong Kong. Seeds presented by Hong Kong Herbarium, Parks, Recreation and Amenities Division, Urban Services Department, Central Government Offices. Received Dec. 26, 1967.

324231. *BROMUS* cf. *RIPARIUS* Rehm. Gramineae.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Numbered Dec. 26, 1967.

Contaminant found in P.I. 315380.

324232 to 324234. *BRASSICA OLERACEA* var. *CAPITATA* L. Cruciferae. **Cabbage.**

From Wales. Seeds presented by Department of Botany, University College of Swansea, Singleton Park, Swansea. Received Dec. 20, 1967.

Seacliffs. West Glamorgan.

324232. Col. No. 1.

324233. Col. No. 2.

324234. Col. No. 3.

324235 to 324246.

From Sweden. Seeds presented by Plant Breeding Institution, Weibullsholm, Landskrona. Received December 21, 1967.

324235. *BETA VULGARIS* L. Chenopodiaceae. **Sugar beet.**
'Banco'.

324236 to 324238. *BRASSICA OLERACEA* var. *CAPITATA* L. Cruciferae. **Cabbage.**

324236. 'Ditmarsker'.

324235 to 324246—Continued**324236 to 324238—Continued**

324237. 'Pondus'.

324238. 'Tardus'.

324239. *CUCUMIS SATIVUS* L. Cucurbitaceae. **Cucumber.**
'Favor II'.

324240 and 324241. *DAUCUS CAROTA* L. Umbelliferae. **Carrot.**

324240. 'Fortuna'.

324241. 'Minerva'.

324242. *LACTUCA SATIVA* L. Compositae. **Lettuce.**
'Irene'.

324243 to 324245. *PHASEOLUS VULGARIS* L. Leguminosae. **Common bean.**

324243. 'Argus'.

324244. 'Bacon'.

324245. 'Herta'.

324246. *PISUM SATIVUM* L. **Pea.**
'Regia'.

324247 to 324253.

From Australia. Seeds presented by D. F. Cameron, Experimental Queensland. Received Dec. 22, 1967.

324247 and 324248. *STYLOSANTHES GUYANENSIS* (Aubl.) Swartz Leguminosae.

324247. C.P.I. 34917.

324248. C.P.I. 34920.

324249 to 324253. *STYLOSANTHES HUMILIS* H.B.K.

324249. No. 25.

324252. No. 78.

324250. No. 26.

324253. No. 119.

324251. No. 59.

324254 to 324257. *PRUNUS PERSICA* (L.) Batsch Rosaceae. **Peach.**

From Australia. Scions presented by Victorian Plant Research Institute, Burnley, Victoria. Numbered Dec. 22, 1967.

'Golden Queen'. Indexed negatively for cherry ringspot, prune dwarf and dark green sunken mottle viruses. Scions from individual trees.

324254. R6T23.

324256. R10T21.

324255. R6T27.

324257. R11T24.

324258 to 324260.

From Canada. Plants presented by R. A. Hamilton, Manotick, Ontario. Numbered Dec. 26, 1967.

324258. *EUONYMUS BUNGEANUS* Maxim. Celastraceae. **Winterberry euonymous.**

324259. *EUONYMUS EUROPAEUS* L.

'Fructu-coccinea'.

324260. *EUONYMUS EUROPAEUS* f. *ALBUS* (West.) Rehd.

324261 to 324287.

From Israel. Seeds collected by J. Katznelson, The Volcani Institute of Agricultural Research, Regional Experiment Station, Neve-Ya'ar, Haifa. Received Dec. 26, 1967.

324261. *ORYZOPSIS HOLCIFORMIS* (Bieb.) Hack. Gramineae. **Ricegrass.**
PC 1 (68).

324262 and 324263. *TRIFOLIUM* (hybrid) Leguminosae.

324262. (*Trifolium pilulare* Boiss. \times *T. subterraneum*).

324263. (*Trifolium subterraneum* \times *T. eriosphaerum* Boiss.)

324264 and 324265. *TRIFOLIUM MICHELIANUM* Savi

324264. NYT 1205. Fifteen km. east of Mush, Turkey.

324265. NYT 1206. Fifteen km. from Bergama, Izmir, Turkey. road to Foca.

324266 to 324278. *TRIFOLIUM NIGRESCENS* Viv. **Ball clover.**

324266. No. 123. Five km. south of Gaziemir, Turkey.

324267. No. 126. Forty-two km. south of Gaziemir, Turkey.

324268. No. 130. Five km. west of Aidin, Turkey.

324269. No. 132. Wofsoke, Turkey.

324270. No. 135. Seven km. west of Aidin, Turkey.

324271. No. 136. Thirty-seven km. east of Ortalkar, Turkey.

324272. No. 137. Seventy-two km. east of Aidin, Turkey, to Denizli.

324273. No. 146. Seventy km. from Wofkula, Turkey.

324274. NYT 645. Upper Galilee, Israel, Karai-Deshe.

324275. NYT 652. Butterfly Valley, Rhodos.

324276. NYT 1215. Forty km. west of Bingol, Turkey.

324277. NYT 1219. Eight km. east of Mush, Turkey.

324278. NYT 1220. Nine km. east of Mush, Turkey.

324279 to 324285. *TRIFOLIUM NIGRESCENS* ssp. *MENEGHINIANUM* (Clem.) Zoh.

324279. No. 143. Usak graveyard, Turkey.

324280. No. 146. Seventy km. west of Kula, Turkey.

324281. NYT 672. Lehavoth, Habashan, Upper Galilee, Israel.

324282. NYT 678. Izrael Valley, Yokneam, Israel.

324283. NYT 681. Jehuda hills, Hulda, Israel.

324284. NYT 682. Upper Galilee, Idmith, Israel.

324285. NYT 683. Upper Galilee, Mairon-Saasa road, Israel.

324286 and 324287. *TRIFOLIUM SUBTERRANEUM* L. **Subterranean clover.**

324286. No. 923.

324287. No. 953.

324288 to 324304.

From England. Plants purchased from Hillier and Sons, Winchester. Numbered Dec. 26, 1967.

324288. *ABIES CONCOLOR* (Gord.) Hoopes Pinaceae. **White fir.**
'Fastigiata'.

324288 to 324305—Continued

324289. *ABIES MAGNIFICA* A. Murr. Red fir.
'Nana'.
- 324290 and 324291. *ABIES NORDMANNIANA* (Steven) Spach Nordmann fir.
324290. 'Nana'.
324291. 'Pendula'.
324292. *CHAMAECYPARIS OBTUSA* f. *GRACILIS* (Rehd.) Rehd. Pinaceae.
Falsecypress.
323293. *CHAMAECYPARIS PISIFERA* (Sieb. & Zucc.) Endl. Sawara retinospora.
'Gold Spangel'.
324294. *PICEA ABIES* (L.) Karst. Pinaceae. Norway spruce.
'Pumila Nigra'.
- 323295 and 324296. *PICEA ORIENTALIS* (L.) Link Oriental spruce.
324295. 'Doverside Pendula'.
324296. No Data.
324297. *PICEA PUNGENS* Englem.
324298. *PINUS CEMBRA* f. *COLUMNARIS* (Beiss.) Rehd. Pinaceae. Swiss stone pine.
324299. *PINUS KORAIENSIS* Sieb. & Zucc. Korean pine.
'Winton'.
- 324300 and 324301. *PINUS PUMILA* (Pallas) Regel Stone pine.
324300. 'Compacta'.
324301. 'Nana'.
324302. *PINUS SYLVESTRIS* L. Scotch pine.
'Doone Valley'.
324303. *TSUGA CANADENSIS* (L.) Carr. Pinaceae. Canadian hemlock.
'Greenwood Lake'.
324304. *TSUGA CANADENSIS* f. *GRACILIS* (Gord.) Beissn.
324305. *BROMUS INERMIS* Leys. Gramineae. Smooth bromegrass.
- From the Union of Soviet Socialist Republics. Seeds presented by Botanical Gardens in Kazakhstan and Uzbekistan through All-Union Institute of Plant Industry, Leningrad. Numbered Dec. 26, 1967.
- 324306 and 324307. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.
- From Ghana. Seeds presented by Crops Research Institute, Ghana Academy of Science, Bunso, Bosuso. Numbered Dec. 26, 1967.
- A degree of resistance to *Sclerotium rolfsii* Sacc.
324306. M 40. 'Maui'.
324307. M 86/8. Hybrid.

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Plant Inventory No. 176

UNITED STATES DEPARTMENT OF AGRICULTURE

Washington, D.C. October 1970



PLANT MATERIAL INTRODUCED JANUARY 1 to DECEMBER 31, 1968
(NOS. 324308 to 338613)

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This inventory, No. 176, lists the plant material (Nos. 324308 to 338613) received by the New Crops Research Branch, Crops Research Division, Agricultural Research Service, during the period from January 1 to December 31, 1968. The inventory is a historical record of plant material introduced for Department and other specialists and is not to be considered as a list of plant material for distribution.

The species names used are those under which the plant material was received. These have been corrected only for spelling, authorities, and obvious synonymy. Questions related to the names published in the inventory and obvious errors should be directed to the author. If misidentification is apparent, please submit an herbarium specimen with flowers and fruit for reidentification.

HOWARD L. HYLAND
Botanist

*Plant Industry Station
Beltsville, Md.*

INVENTORY

324308 and 324309. LEUCAENA DIVERSIFOLIA (Schlecht.) Benth. Leguminosae.

From Honduras. Seeds collected in July 1967 by J. L. Brewbaker, Department of Horticulture, Agriculture Experiment Station, University of Hawaii, Honolulu. Numbered Jan. 2, 1968.

324308. Col. No. 95. El Jicarto, Departamento Morazan. From herbarium specimen at Zamorano.

324309. Col. No. 96. El Zamorano, Departamento Morazan. From herbarium specimen at Zamorano.

324310 to 324336.

From El Salvador. Seeds collected in July 1967 by J. L. Brewbaker, Department of Horticulture, Agriculture Experiment Station, University of Hawaii, Honolulu. Numbered Jan. 2, 1968.

324310 to 324335. LEUCAENA LEUCOCEPHALA (Lam.) de Wit Leguminosae.

324310. Col. No. 97. Local name: Guajillo. Near Experiment Station, Santa Cruz Porillo. Trees to 5 m., abundantly flowering throughout the year. Typical uniform growth habit for species.

324311. Col. No. 98. Local name: Guaje. Experimental Gardens Santa Cruz, Porillo, 10 km. south of Zaca Tecoluca. Trees to 10 m. in 2 years, to over 15 m. in 5 years; large pods, seeds, flowers, leaflets. Flowers in April and October. Seeds from 12 trees.

324312. Col. No. 99. See P.I. 324311.

324313. Col. No. 100. See P.I. 324311.

324314. Col. No. 101. See P.I. 324311.

324315. Col. No. 102. See P.I. 324311.

324316. Col. No. 103. See P.I. 324311.

324317. Col. No. 104. See P.I. 324311.

324318. Col. No. 105. See P.I. 324311.

324319. Col. No. 106. See P.I. 324311.

324320. Col. No. 107. See P.I. 324311.

324321. Col. No. 108. See P.I. 324311.

324322. Col. No. 109. See P.I. 324311.

324323. Col. No. 110. See P.I. 324311.

324324. Col. No. 111. See P.I. 324311.

324325. Col. No. 112. See P.I. 324311.

324326. Col. No. 113. See P.I. 324311.

324327. Col. No. 114. See P.I. 324311.

324328. Col. No. 115. See P.I. 324311.

324329. Col. No. 116. See P.I. 324311.

324330. Col. No. 117. See P.I. 324311.

324331. Col. No. 118. Local name: Guapillo. Near Experiment Station, Santa Cruz Porillo. Small Hawaiian type.

324332. Col. No. 119. See P.I. 324331.

324333. Col. No. 120. See P.I. 324331.

324334. Col. No. 121. See P.I. 324331.

324335. Col. No. 122. See P.I. 324331.

324310 to 324336—Continued

324336. *LEUCAENA SHANNONII* Donn. Smith

Col. No. 123. North of Santa Ana on road to St. Cristobel, 1 km. south of Candelaria. Elevation 678 m. Tree to 4 m. Leaves to 15 cm., glabrous, 4-5 pairs pinnae, 9-12 pairs leaflets, petiole 2-3 cm. Large, reddish-brown, elevated gland at or below lowermost pinnae. Leaves grade into *L. leucocephala*. Terminal flowers borne on leafy "raceme," 3-6 nodes. Open flower heads white, similar to *L. leucocephala*, 5-12 mm. in diameter. Flowering initiated in July. Residual pods from previous November. Anthers pilose. Pods similar to *L. diversifolia*; 1-1.2 cm. wide, 7 to 10 cm. long. Large rectangular seeds, slightly fuzzy.

324337 to 324341.

From Guatemala. Seeds collected in July 1967 by J. L. Brewbaker, Department of Horticulture, Agriculture Experiment Station, University of Hawaii, Honolulu. Numbered Jan. 2, 1968.

324337. *LEUCAENA DIVERSIFOLIA* (Shhlecht.) Benth. Leguminosae.

Col. No. 132. Ten km. east of Saranate, Departamento Progresso. Elevation 700 m. Trees to 6 m., glabrous, similar to *L. diversifolia*, but with green pods, very small heads, apparently with white anthers; more or less glabrous throughout. Leaves to 15 cm., 5-8 pairs pinnae, 20 to 30 pairs leaflets 3-5 mm. Leaves close very quickly when picked. Flower heads 1-3 at nodes, to 6 mm. diameter before anthesis. Pods glabrous.

324338 to 324341. *LEUCAENA SHANNONII* Donn. Smith

324338. Col. No. 124. Local name: Guaje. Along highway between Asuncion Mita and Jutiapa. Trees to 10 m., more or less vigorous; clearly endemic at this location. Flower in long spikes (racemes) to 30 cm.

324339. Col. No. 125. See P.I. 324338.

324340. Col. No. 126. See P.I. 324338.

324341. Col. No. 127. See P.I. 324338.

324342 to 324423.

From Mexico. Seeds collected in July 1967 by J. L. Brewbaker, Department of Horticulture, Agriculture Experiment Station, University of Hawaii, Honolulu. Numbered Jan. 2, 1968.

324342. *ACACIA ACATLENSIS* Benth. Leguminosae.

Col. No. 12. Ten km. south of Cuautla, Morelos; foothills. Tree to 4 m. high; leaves resemble *L. microcarpa*; 3-4 pinnae, 3-5 leaflets, 1.0 by 1.5 cm., glabrous, thick; pods more or less indehiscent, 6-10 cm. long.

324343. *ACACIA FARNESIANA* (L.) Willd

Col. No. 3. Five miles south of Urangato, Michoacan. Thorny shrub to 2.5 m. high; flower head loose, yellow.

324344. *ACACIA* sp.

Col. No. 4. Local name: Mesquite. Five miles south of Urangato, Michoacan. Irregular-formed tree, 8-15 m. high. No flowers present; pods near maturity.

324345. *ALBIZIA LEBBECK* (L.) Benth. Leguminosae.

Col. No. 10. Four km. west of Zacatepec, Morelos. Elevation 1,000 m. Common in plantings through city. Tree to 6 m. high. Heavy pod production; scattered flowers with typical elongate anthers and stamens.

324346 to 324451. *LEUCAENA COLLINSII* Britton & Rose Leguminosae.

324342 to 324423—Continued

324346 to 324451—Continued

324346. Col. No. 24. Fifteen km. east of Cordoba; 3 km. northwest of Cuitlahuac, Veracruz. Tree to 7 m. high; 10 to 12 pairs pinnae, 15 to 25 leaflets, 4–5 mm.; acute; glabrous throughout. Large gland raised below first pinnae; pods 10 to 14 cm. long by 2 cm. wide. Flowers 1.5 cm. diameter, white, glabrous; pods more or less identical to *L. leucocephala* but cuspidate. Gallings common; weevils rare.
324347. Col. No. 60. Local name: Uachi. One km. south of Tuxtla Gutierrez, Chiapas. Tree to 7 m. high; coincides with species description; 9–12 pairs pinnae; 28 to 40 pairs leaflets, to 5 mm. wide; large white heads, pilose anthers, fluting of young stems inconspicuous, little red in petiole, pod, etc.; seeds resembles *L. leucocephala*; flattened, green. Matures seeds in January. Young seeds eaten for stomach troubles.
324348. Col. No. 61. Two km. north of Tuxtla Gutierrez, Chiapas. Tree to 6 m. high.
324349. Col. No. 62. One km. north of Tuxtla Gutierrez, Chiapas. Tree to 5 m. high.
324350. Col. No. 63. One km. north of Tuxtla Gutierrez, Chiapas. Tree to 7 m. high.
324351. Col. No. 65. One km. north of Tuxtla Gutierrez, Chiapas.
- 324352 to 324373. *LEUCAENA DIVERSIFOLIA* (Schlecht.) Benth.
324352. Col. No. 22. Five km. west of Fortin de las Flores, 12 km. east of Cordoba Rain Forest, Veracruz. Elevation 1,000 m.
324353. Col. No. 23. Local name: Guaje. Three km. west of Cordoba, Veracruz. Elevation 1,040 m. Tree to 15 m.; spreading; small leaves and leaflets. Flowers present with pods at all stages of maturity.
324354. Col. No. 33. Two km. west of Cordoba, Veracruz. Tree to 4 m., covered with young fruit and flowers, some residual pods. Anthers red, tips of style red, no other color in flower; branches reddish as in *L. esculenta*.
324355. Col. No. 34. Local name: Guaje. Three km. north of Fortin de las Flores, Veracruz. Vigorous young trees heavy with young fruits. Local farmers eat young pods. Two local pigs were bald.
324356. Col. No. 35. Three km. north of Fortin de las Flores, Veracruz.
324357. Col. No. 36. Sixteen km. north of Fortin de las Flores, Veracruz. Elevation 1,400 m. Small tree in jungle.
324358. Col. No. 38. Three km. west of Huatusco, Veracruz. Elevation 1,400 m. Wooded. Tree to 10 m. high, healthy; 17 pairs pinnae, 38 pairs leaflets, 1 by 3–4 mm. In early pod (flower date mid-June). Seeds collected from pods on ground. Pods 1.1 cm. by 10 cm.
324359. Col. No. 39. Ten km. north of Huatusco, Veracruz. Elevation 1,300 m. Small sporadic trees.
324360. Col. No. 44. Ten km. east of Dos Rios, Veracruz, in valley of Rio Paso de la Milpe. Elevation 500 m. Dry area, shale appearing calcareous. Trees to 6 m., fruiting heavily (flower date early June).
324361. Col. No. 45. Ten km. east of Dos Rios, Veracruz, in valley of Rio Paso de la Milpe. Elevation 500 m. Plants vigorous, heavily seeding.
324362. Col. No. 46. Ten km. east of Jalapa, Veracruz. Trees to 5 m., typical of species; anthers pink; styles pink grading to white; pods reddish; glabrosity of legumes and flowers varies from plant to plant; young plants exhibit it best.
324363. Col. No. 47. Ten km. east of Jalapa, Veracruz.

324342 to 324423—Continued

324352 to 324373—Continued

324364. Col. No. 54. Ten km. north of Oaxaca. Very common in arroyos and dry sandy areas. Tree small, willowy, to 6 m., late flowers abundant, some residual pods; leaves to 25 cm., 17 to 19 pairs pinnae, 40 to 50 pairs leaflets; anthers 5–7 mm., pink, head to 2 cm. diameter; 4–6 heads per node, peduncle 1.5 cm. Seeds large. Pods 1.5 by 9–12 cm., deep red pigment in pilose young pods and leaf veins.
324365. Col. No. 55. Fourteen km. north of Oaxaca City, Oaxaca. Description same as P.I. 324364.
324366. Col. No. 57. On road to San Juan del Estado, 20 km. north of Oaxaca City, Oaxaca.
324367. Col. No. 58. On road to San Juan del Estado, 20 km. north of Oaxaca City, Oaxaca.
324368. Col. No. 64. One km. north of Tuxtla Gutierrez, Chiapas. Willowy trees to 5 m. high; 16 to 18 pairs pinnae; 40 to 45 pairs leaflets; anthers red; pigment in leaves; pods 1.1 cm. by 10 cm. Seeds very small, typical.
324369. Col. No. 66. One km. west of Jalapa, Veracruz. Tree to 4 m., covered with young fruit and flowers, some residual pods. Anthers red, tips of style red, no other color in flower. Branches reddish.
324370. Col. No. 94a. Thirty-six km. south of Teguci on road to Zamorano; dry woodlands, sporadic. In flower and young pod. Anthers and style tips red. Flower heads less than 1 cm., leaves with 11 to 14 pairs pinnae, 25 to 34 pairs leaflets.
324371. Col. No. 129. San Jose Acatempa, Departamento Jutiapa, 1.5 km. west of Llano Grands. Elevation 1,000 m. Rolling hills in open areas, occasionally cultivated. Leaves small, thin; flowers small, reddish; seeds larger than *L. diversifolia*. Flowering just begun.
324372. Col. No. 130. Twenty km. northwest of Jalapa on road to Sanarate, Departamento Jalapa. (Also seen in Departamento Progreso). Dense rain forests. Plants competitive at this site. Trees typical, to 6 m., endemic; flowers reddish, some residual pods to 1.5 cm. by 12 cm. Seeds longer than *L. diversifolia* of Mexico. No evidence of the leaflet pilosity.
324373. Col. No. 131. Twenty km. northwest of Jalapa on road to Sanarate, Departamento Jalapa.

324374 to 324381. *LEUCAENA ESCULENTA* (Moc. & Sesse) Benth.

324374. Col. No. 1. Local name: Guaje. Temascaltepec, southwest of Toluca, Mexico, D.F. Roadside. Sporadic trees, open area, valley amid mountains. Elevation 1,730 m. Tree 8 to 13 m., spreading crown similar to Jacaranda, whitish bark, sparse foliage. Leaves with 10 to 12 pairs pinnae, 20 to 30 pairs leaflets; 4 to 6 mm., more or less acute tip. No flowers, pods variable, red, 10 to 20 cm. long. Seeds more or less round, flat, 8 to 10 m. in diameter; often with Bromeliad parasite.
324375. Col. No. 8. Two km. north of Alpuyecá, south of Cuernavaca, Morelos; along river. Widely naturalized between Zacatepec and Cuautla. Typical of species; see P.I. 324374. Pods from last year's flowers.
324376. Col. No. 14. Twenty km. north of Izucar de Matamoros, Puebla. Elevation 1,640 m. Trees to 8 m., some in flower; pods 2 by 12 to 15 cm., glabrous, reddish. Leaves droop at sunrise.
324377. Col. No. 15. Cultivated on plains of Puebla, along Route 150. Five km. north of Tecamachalco, Puebla. Tree typical, to 60 km; handsome. Pods just ripe. No weevils in pods. Other trees in flower; photo insensitive.

324342 to 324423—Continued

324374 to 324381—Continued

324378. Col. No. 52. Local name: Guaje. Near Oaxaca City, Oaxaca. Cultivated trees to 8 m., whitish bark, horizontally striate; 30 to 55 pairs pinnae, 50 to 100 pairs leaflets, 1 by 3-4 mm. densely arrayed; stems fluted; pods 2 by 15 cm.; seeds 8 mm. in diameter, rounded; sun red in leaf rachis; petiole less than 2 cm., large, elongate, red gland at base of first pair pinnae.

324379. Col. No. 53. Local name: Guaje. Ten km. north of Oaxaca City, Oaxaca. Trees cultivated. More or less typical; 43 pairs pinnae, 75 pairs leaflets; large gland between basal pair leaflets; glands between 5 uppermost pairs leaflets.

324380. Col. No. 56. On road to San Juan del Estado, 20 km. north of Oaxaca City, Oaxaca. Cultivated and wild. Tree to 6 m., vigorous.

324381. Col. No. 59. Oaxaca City, Oaxaca. Cultivated trees to 12 m.; ultimate height depends on cultural conditions. Trees dwarfed by apparent poor nutrition and by flowering and fruiting during the dry season.

324382 to 324390. *LEUCAENA LANCEOLATA* S. Wats.

324382. Col. No. 37. Salto de Agua, 11 km. south of Santiago Tuxtla, Veracruz. Elevation 100 m. Shrub to 2 m., leaves and pods typical of species.

324383. Col. No. 42. Local name: Guaje. Two km. west of Jalapa; backyard plant. Tree to 6 m., glabrous, resembles *L. leucocephala*. Leaves contain 3-4 pairs pinnae, 4-5 pairs leaflets; size variable, two 20-45 mm. long by 1 to 2.5 mm. wide. Flower heads to 1.5 cm. in diameter, white. Pods glabrous 2 by 15 cm., seeds elongate, large, not rounded. Anthers pubescent. Young pods eaten by natives.

324384. Col. No. 43. Two km. west of Puente Nacional. See P.I. 324383.

324385. Col. No. 48. River bed, 15 km. southwest of Dos Rios, Veracruz, southwest of Jalapa. Willowy trees to 5 m. high. Insect-infested pods. Resembles P.I. 324383.

324386. Col. No. 49. Dry hillside near locale of P.I. 324385 river bed, 15 km. southwest Dos Rios, Veracruz, southwest of Jalapa.

324387. Col. No. 51. Plan del Rio, 21 km. southwest of Dos Rios, Veracruz, southwest of Jalapa. Trees small, scattered on dry hillside.

324388. Col. No. 134. One km. south of Mazatlan, Sinaloa. Elevation 30 m. Dry hillside. Plant to 4 m., leaflets 2 cm. long. Leaves with 3 pairs pinnae, 5 pairs leaflets. Very few seeds in old pods. Trees also cultivated.

324389. Col. No. 146. Mazatlan, Sinaloa, dry open slopes. Elevation 100 m. Small trees; cultivated and wild.

324390. Col. No. 147. See P.I. 324389.

324391 to 324412. *LEUCAENA LEUCOCEPHALA* (Lam.) de Wit

324391. Col. No. 9. Five km. west of Zacatepec, open dry plain. Cultivated. Elevation 1,040 m. Trees typical; weak; to 4 m. high, some to 25 cm. diameter. Flowers, pods in all stages of maturity. Mixed stand with *L. esculenta*.

324392. Col. No. 11. One km. south of Temilpa Neuvo, north of Zacatepec, Morelos. Elevation 1,000 m. Tree to 6 m.; very thin pods, larger number seeds per pod.

324393. Col. No. 17. Two km. north of Ajalpan, south of Tehuacan, Puebla. Elevation 1,200 m. Plants typical; cultivated.

324394. Col. No. 18. Three km. south of Zinacatepec, Puebla. Tree very tall, vigorous. All *L. leucocephala* at this location were in late pod.

324342 to 324423—Continued

324391 to 324412—Continued

324395. Col. No. 19. Three km. south of Zinacatepec, Puebla. Tree short, more or less typical.
324396. Col. No. 20. Three km. south of Coxcatlan, Puebla, southeast of Tehuacan. Typical; small shrubs; leaflets fleshy, 10 mm. long.
324397. Col. No. 21. Three km. south of Coxcatlan, Puebla, southeast of Tehuacan. Vigorous tree, deep red pods.
324398. Col. No. 25. Fifteen km. east of Cordoba, Veracruz, 3 km. northwest of Cuitlahuac. Plants low; typical; brown-flecked bark. Weevils abundant; no galls.
324399. Col. No. 26. Veracruz, 15 km. west of Cuitlahuac. Tree small, typical of species; healthy. Large, cupped gland below first pair pinnae; glands usually below last pair.
324400. Col. No. 27. Twenty km. north of Tierra blanco, Veracruz. Cultivated trees; variable.
324401. Col. No. 28. Fifteen km. west of Cosamaloapan, Veracruz. Open grazing and sugar cane fields. Elevation 150 m. Large tree, 25 cm. diameter, 14 m. high. *L. esculenta* common in lowlands. Lush vegetative growth, no pods or flowers.
324402. Col. No. 29. One km. east of Cosamaloapan, Veracruz. Cultivated and wild.
324403. Col. No. 32. One mile east of Mecayapan, Veracruz. Low, wet lands; pasture, isolated, sporadic plants. Low tree, typical with uniform growth habit.
324404. Col. No. 41. Two km. west of Puente Nacional, Veracruz, road to Jalapa. Typical, somewhat luxuriant.
324405. Col. No. 50. Plan del Rio, 21 km. southwest of Dos Rios, Veracruz, southwest of Jalapa. Typical of species.
324406. Col. No. 133. Mazatlan, Sinaloa. Shrub to 3 m. high; flowers and pods abundant; typical, uniform growth habit. Flower heads very large.
324407. Col. No. 135. Five km. south of Mazatlan, Sinaloa. Typical uniform growth habit.
324408. Col. No. 142. Outskirts of Mazatlan, Sinaloa. Typical uniform growth habit; trees heavy with glabrous, reddish brown pods, produced from about April. Full bloom.
324409. Col. No. 143. Same as P.I. 324408.
324410. Col. No. 148. Near Mazatlan, Sinaloa. Elevation 50 m. Typical of species.
324411. Col. No. 149. Same as P.I. 324408.
324412. Col. No. 150. Same as P.I. 324408.

324413 to 324421. *LEUCAENA MACROPHYLLA* Benth.

324413. Col. No. 2. Local name: Paloblanco. Magdalena de Araceo, 9 km. south of Valle de Santiago, northwest of Lake Yarıria, Michoacan. Elevation 1,900 m. Mixed stand along ravine in rolling open country. Spreading tree, 6 to 12 m.; trunk 25 to 40 cm., whitish bark, leaf scales. Four to 6 pairs pinnae, 6-10 leaflets; flower heads reportedly white, 2 cm. diameter; scattered young pods with very thick edges, 2.5 by 12 to 20 cm.; 8-12 large seeds per pod, 7-9 mm. in diameter. Like *L. esculenta*. Leaves very small for *L. microcarpa*.
324414. Col. No. 5. Five km. south of Guanajuato City, Guanajuato. See P.I. 324413. Trees to 13 m. high and wide. Well-fertilized area along stream; bark white; young pods on trees; heavy pod production, 3.5 by 28 cm., a few of last season's infested with insects.

324342 to 324423—Continued

324413 to 324421—Continued

324415. Col. No. 136. Chapudero, 15 km. northwest toward Durango, 30 km. northwest Concoldia in Sinaloa. Dense, low-rainfall forests. Elevation 300 to 800 m. Trees to 7 m., conspicuously brittle. Three to four pairs pinnae, 3–5 pairs leaflets; size variable, 1 by 2 to 2–5 cm., variable acute; young vegetation distinctly reddish brown; pods to 15 cm., 1.5 to 2 cm. wide, hirsute seeds like *L. leucocephala*. New heads just appearing; few old pods badly infested with insects; seeds on ground. Flowers in terminal racemes more or less conspicuous as in *L. shannoni*.

324416. Col. No. 137. Same as P.I. 324415.

324417. Col. No. 138. Same as P.I. 324415.

324418. Col. No. 139. Two km. west of Chapudero, 8 km. west of Concoldia, Sinaloa. Trees to 6–8 m., bark smooth, with flaked appearance. Trunks to 15 cm. diameter breast high.

324419. Col. No. 140. On highway 40 to Durango, 5 km. northeast of Concordia, Sinaloa. See P.I. 324415 for description.

324420. Col. No. 141. On highway 40 to Durango, 1 km. northeast of Concordia, Sinaloa. Seeds collected from ground.

324421. Col. No. 144. Twenty km. north of Mazatlan, Sinaloa. Elevation 60 m.; wooded rolling hills. Prolonged dry season. Small, spreading trees to 6 m., bark often white with lichen. Species easily noted by residual, dry spikes of inflorescence atop trees.

324422. *LEUCAENA* sp.

Col. No. 7. Open rocky plain, 12 km. south of Cuernavaca, Morelos. Open rocky land. Elevation 1,600 m. Tree to 15 m., spreading, without thorns. Leaves very large, 12 to 16 pinnae; 20 to 38 leaflets, oblong, 2–5 mm. More or less larger than *L. leucocephala*; no stipules; leaves more or less identical to *L. diversifolia*. Pods both mature and young, 2 by 12 cm.; 3–5 seeds, rounded.

324423. *LEUCAENA* sp.

Col. No. 13. Near Tepexco, 30 km. west of Izucar de Matamoros, Puebla. Heavily wooded dry slopes. Elevation 1,200 m. Also common south of Tehuacan. Tree to 9 m., smooth bark with light peel like birch. Leaves like *L. stenocarpa*; minutely thorny, 3 mm. lanceolate stipules. Leaves with 6–10 pairs pinnae, 30 or more leaflets, 1 by 3 mm. Pods 2 by 12 cm., dehiscent, immature. Flowers mid-June. Flowers not seen, evidently in 8 cm. long spikes.

324424 to 324451.

From Colombia. Seeds collected in July 1967 by J. L. Brewbaker, Department of Horticulture, Agriculture Experiment Station, University of Hawaii, Honolulu. Numbered Jan. 2, 1968.

324424 and 324425. *ALBIZIA GUACHAPELE* (Kunth) Dugand Leguminosae.

324424. Col. No. 67. Near Melgar, 30 km. east of Girardat, Departamento Bogota. Tree to 15 m. high, spreading, 36 cm. diameter breast high; leaves to 30 cm. long; 5–6 pairs pinnae; 5–6 leaflets, 1.5–3.0 cm. by 2–4 cm.; minute puberulence on young stem, petiole, leaf rachis, leaflets, especially lower surface. Late pod, two to 2.5 cm. by 11 to 16 cm., puberulent, whitish, resembles *L. leucocephala* in size; 13 to 18 seeds per pod, peduncle 2–3 cm.; 5–10 pods per inflorescence. Green flat glands at base of uppermost pair pinnae and below lowermost.

324425. Col. No. 68. Ten km. west of Girardot, Departamento Bogota. Same as P.I. 324424.

324426 to 324451. *LEUCAENA LEUCOCEPHALA* (Lam.) de Wit Leguminosae.

Leadtree.

324424 to 324451—Continued

324426 to 324451—Continued

324426. Col. No. 69. Two km. north of Girardot, Departamento Cundinamarca. Arroyo in more or less dry area. Elevation 460 m. Willowy trees to 5 m., buds, flowers, mature pods, typical uniform growth habit; 4-6 pairs pinnae, 12-18 pairs leaflets; 6-10 mm. long; young stems minutely puberulent; flower heads to 1.8 cm. diameter, peduncle 3 cm., pods to 1.5 cm. by 16 cm.; young pods glabrous on some plants, minutely puberulent on others. More than 18 seeds per pod.
324427. Col. No. 70. See P.I. 324426.
324428. Col. No. 71. See P.I. 324426.
324429. Col. No. 72. See P.I. 324426.
324430. Col. No. 73. See P.I. 324426.
324431. Col. No. 74. See P.I. 324426.
324432. Col. No. 75. See P.I. 324426.
324433. Col. No. 76. See P.I. 324426.
324434. Col. No. 77. See P.I. 324426.
324435. Col. No. 78. Eleven km. east of Melgar, Departamento Bogota. Few plants in fence row along highway; typical of species. Pods more or less minutely puberulent, even at maturity.
324436. Col. No. 79. Local name: Higua. Ten km. east of Cali, Departamento Valle. (Cauca Valley). Healthy trees to 6 m., heavy seed production; pods more or less finely puberulent to maturity; leaflets small, pointed.
324437. Col. No. 80. Two km. south of Tulua, Departamento Valle, edge of pasture. Lateral branching trees to 6 m., more or less vigorous; heavy seed production. Seven to nine pairs pinnae; 18 to 20 pairs leaflets, to 16 mm. Old leaves badly infected with a fungus on upper leaf surface; appears more or less like red spider damage with whitish areas and black spots.
324438. Col. No. 81. See P.I. 324437.
324439. Col. No. 82. See P.I. 324437.
324440. Col. No. 8. One km. north of Andalucia, Departamento Valle, north of Tulua. Along fence row. Small trees, more or less typical; no disease present. Pods more or less puberulent.
324441. Col. No. 84. See P.I. 324440.
324442. Col. No. 85. See P.I. 324440.
324443. Col. No. 86. Bugalagrande, Department Valle, north of Tulua. Healthy small trees, more or less regularly cut back; cultivated.
324444. Col. No. 87. Two km. north of Montenegro, Departamento Valle, south of Cartago. In fence row; dry alluvial plain. Trees small; leaflets small; in flower.
324445. Col. No. 88. See P.I. 324444.
324446. Col. No. 89. Seven km. south of Obando, Departamento Valle, south of Cartago. Trees in fence row; to 6 m. high.
324447. Col. No. 90. See P.I. 324446.
324448. Col. No. 91. See P.I. 324446.
324449. Col. No. 92. Three km. north of Roldanillo, Departamento Valle, near Cartago. On west side of Cauca Valley, very dry as on east side of California Sierras. Tree small, typical.
324450. Col. No. 93. Five km. south of Roldanillo, Departamento Valle del Cauca, south of Cartago. Plants used as live fence posts.
324451. Col. No. 94. See P.I. 324450.

324452 to 324461. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Mexico. Tubers collected by H. S. Gentry, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Jan. 3, 1968.

- 324452.** Col. No. 22451. Market, Zacapoaxtla, Puebla. Elevation 5,700 feet. White, locally grown.
- 324453.** Col. No. 22452. Market, Zacapoaxtla, Puebla. Elevation 5,700 feet. Reddish, locally grown.
- 324454.** Col. No. 22453. Market, Zacapoaxtla, Puebla. Elevation 5,700 feet. White, locally grown.
- 324455.** Col. No. 22465. Market, Tezuitlan, Puebla. Elevation 6,000 feet. Small, white, locally grown in moist, cool, cloudy climate.
- 324456.** Col. No. 22466. Market, Tezuitlan, Puebla. Elevation 6,000 feet. Small, reddish. Moist, cool, cloudy climate.
- 324457.** Col. No. 22467. Market, Tezuitlan, Puebla. Elevation 6,000 feet. Small, rough skinned, locally grown in moist, cool, cloudy climate.
- 324458.** Col. No. 22468. Market, Tezuitlan, Puebla. Elevation 6,000 feet. White, lumpy, deep eyed, locally grown in moist, cool, cloudy climate.
- 324459.** Col. No. 22469. Market, Tezuitlan, Puebla. Elevation 6,000 feet. Large, lumpy, blocky; locally grown in moist, cool, cloudy climate.
- 324460.** Col. No. 22470. Market, Tezuitlan, Puebla. Elevation 6,000 feet. Large, red skinned. Grows in moist, cool, cloudy climate.
- 324461.** Col. No. 22487. Market, Coscomatepec, Veracruz. Elevation 5,100 feet. Small, locally grown in the higher altitudes.

324462. ORYZA SATIVA L. Gramineae. Rice.

From Taiwan. Seeds presented by Dr. Li, Academia Sinica, Taipei. Received Jan. 4, 1968.

'I-Geo-Tse'. (Peba × I-Geo-Tse IR 8).

324463 and 324464.

From the United States. Seeds grown at National Plant Materials Center, Soil Conservation Service, Beltsville, Md. Originally collected in 1964 by Jesse L. McWilliams, United States Agency for International Development, Algeria. Received Jan. 4, 1968.

324463. ALOPECURUS ARUNDINACEUS Poir. Gramineae.

Near Tirney, Algeria, south of Tlemcen.

324464. PHALARIS AQUATICA L. Gramineae.

Large canarygrass.

Near Yacouren, Algeria.

324465 to 324469.

From Iran. Seeds presented by Jean Cauquil, Institute de Recherches du Coton et des Textiles Exotiques, 34 rue des Renaudes, Paris, France. Received Jan. 4, 1968.

324465. GOSSYPIUM HERBACEUM L. Malvaceae. Levant cotton.

Reported to be *verticillium* wilt resistant strain, developed in the Soviet Union.

'Boumic Aria'.

324466 to 324469. GOSSYPIUM HIRSUTUM L. Upland cotton.

Reported to be *verticillium* wilt resistant strains, developed in the Soviet Union.

324466. C 1211. Type zero.

324468. 108 F.

324467. C X 349.

324469. 152-F.

324470 to 324486.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Jan. 4, 1968.

324470 to 324475. TRITICUM AESTIVUM L. Gramineae. Common wheat.

324470. Hyb. 38.	324473. NIPHAD-4.
324471. Hyb. 277.	324474. Pbc. 253.
324472. K. 13.	324475. RS. 9-11.

324476 to 324486. TRITICUM DURUM Desf. Durum wheat.

324476. A. 206.	324482. 'Motia'.
324477. 'Gulab'.	324483. N. 59.
324478. Hyb. 23.	324484. N.I. 146.
324479. Hyb. 32.	324485. P.W. 3.
324480. 'Jay'.	324486. 'Vijaya'.
324481. 'Malvi Ekdania 69'.	

324487 and 324488.

From the United States. Seeds grown at National Plant Materials Center, Soil Conservation Service, Beltsville, Md. Received Jan. 4, 1968.

324487. BROMUS cf. INERMIS Leyss. Gramineae.

Originally from the Soviet Union.

Contaminant from P.I. 315370.

324488. POA BULBOSA L. Gramineae. Bulbous bluegrass.

Originally from the Soviet Union.

Viviparous form. Contaminant from P.I. 314147.

324489. ERIANTHUS TRINII Hack. Gramineae. Plume grass.

From Argentina. Seeds presented by Edgardo R. Montaldi, Instituto de Botanica Agrícola, Buenos Aires. Received Jan. 4, 1968.

324490 to 324492.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Jan. 4, 1968.

324490. TRITICUM AESTIVUM L. Gramineae. Common wheat.
NP. 799.

324491. TRITICUM SPHAEROCOCCUM Percival
Mutant of NP. 799.

324492. TRITICUM SPHAEROCOCCUM Percival

324493 to 324502.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Jan. 12, 1968.

324493 to 324498. GOSSYPIUM ARBOREUM L. Malvaceae. Asiatic tree cotton.

324493. D 46-2-1 'Cernuum'.	324496. 'Sanguineum'.
324494. K-7.	324497. 'Sanjay'.
324495. 'Raniben'.	324498. 'Virnar'.

324499 to 324502. GOSSYPIUM HERBACEUM L. Levant cotton.

324499. 'Digvijay'.	324501. 'Vijalpa'. (2087).
324500. 'Kalyan'.	324502. V. 797.

324503. ARACHIS HYPOGAEA L. Leguminosae.

From El Salvador. Seeds collected by J. F. McGill, Extension Agronomist, Georgia Coastal Plain Experiment Station, Tifton, Georgia. Received Jan. 5, 1968.

'Criollo'. From San Francisco, Lempa.

324504. ARACHIS HYPOGAEA L.

From Taiwan. Seeds presented by John Green, Executive Secretary, Southeastern Peanut Association, Albany, Georgia. Received Jan. 5, 1968.

324505. ARACHIS HYPOGAEA L.

From Argentina. Seeds presented by Instituto Nacional de Tecnologia Agropecuaria-United States Agency for International Development delegation. Received Jan. 5, 1968.

'Colorado de Cordoba'.

324506 to 324515.

From Brazil. Seeds presented by B. V. Skvortzov, Instituto de Botanica, Sao Paulo. Numbered Jan. 5, 1968.

324506. ARECASTRUM ROMANZOFFIANUM (Cham.) Becc. Palmae. Palm.

324507. BRASSICA NAPUS L. Cruciferae. Rape.

Cultivated as mustard for large leaves.

324508. CARCIA PAPAYA L. Caricaceae. Papaya.

324509. COIX LACRYMA-JOBI L. Gramineae. Jobs-tears.

Originally from Tokyo, Japan.

324510. COIX LACRYMA-JOBI var. MA-YUEN (Romanet) Stapf Adlay.

Originally from Tokyo, Japan.

324511. CORDYLINE FRAGRANS (Ker) Planch. Liliaceae.

Cultivated in Botanical Garden. Originally from Guinea.

324512. CYPRESSUS FUNEBRIS Endl. Pinaceae. Mourning cypress.

Large trees cultivated in Sao Paulo. Origin China.

324513. ERIOBOTRYA JAPONICA (Thunb.) Lindl. Rosaceae. Loquat.

324514. EUTERPE EDULIS Mart. Palmae.

Cultivated in Botanical Garden.

324515. TABEBUIA IPE (Mart.) Standl. Bignoniaceae.

Tree small; flower large, rose.

324516 to 324522.

From Chile. Seeds presented by Cia. Molinos Y Fideos "Carozzi", Quilpue. Received Dec. 14, 1967. Numbered Jan. 8, 1968.

324516 and 324517. TRITICUM AESTIVUM L. Gramineae. Common wheat.

324516. 'Alifen'.

324517. 'Cabildofen'

324518 to 324521. TRITICUM DURUM Desf. Durum wheat.

324518. 'Candeal Americano'.

324521. 'Cappelli'.

324519. 'Candealfen 4'.

324520. 'Candealfen 5'.

'Capeiti'.

324522. TRITICUM sp. Wheat.

324523. MALUS sp. Rosaceae.

From Poland. Rooted cuttings presented by the Instytut Sadownictwa w Skieraiewicach, Skierniewice. Received Jan. 10, 1968.

'Budagovski No. 9'. (Red-leaved Paradise.)

324524. ERICA DOLIIFORMIS Salisb. Ericaceae.

From Germany. Plant presented by Palmengarten, Frankfurt am Main. Received Jan. 10, 1968.

'Evening Glow'.

324525. CUCUMIS MELO L. Cucurbitaceae. Muskmelon.

From Afghanistan. Seeds presented by G. Gordon Hadley, Loma Lina, California. Received Jan. 11, 1968.

From Mazar-i-Sharif.

324526 to 324532.

From France. Seeds presented by J. Lefebvre, Florimond Desprez, Capelle par Templeuve, (Nord). Received Jan. 11, 1968.

324526. AVENA SATIVA L. Gramineae. Common oats.

FD 198. Flamande × Noire de Moyencourt.

324527 and 324528. HORDEUM VULGARE L. Gramineae.

324527. 'Mamie'. Mansholt × Kenia.

324528. 'Piri'. Rika × Piroline.

324529 to 324532. TRITICUM AESTIVUM L. Gramineae. Common wheat.

324529. 'Capnord'. (90 × Choisy 2-7 × Capelle) × Capelle.

324530. 'Capest'. (90 × Choisy 2-7) × Capelle.

324531. FD 2406. 'Heina'. Marne × Heine VII.

324532. 'Francest'. Capelle × (H du Jonquois × V.27)
(H. du Jonquois × P.L.M.) × D.Ro.

324533 to 324706.

From Hungary. Seeds presented by A. Janossy, National Institute of Agrobotany, Tapioszele. Received Jan. 11, 1968.

324533 to 324535. HORDEUM VULGARE L. Gramineae.

324533. I-4 686. Unknown.

324534. I-4-1522. Schonfinower 4-Zeilige.

324535. I-4-1551. Frimas.

324536 to 324692. PHASEOLUS VULGARIS L. Leguminosae. Common bean.

324536. 'Aiguillee Verte'. 548.

324537. 'Aranyeso'. No. 4.

324538. 'Ascherlebener Kora'. No. 253.

324539. 'Bataaf'. No. 603.

324540. 'Bauernfreude'. No. 37.

324541. 'Beurre Perfection'. No. 32.

324542. 'Biala Exportowa'. No. 66.

324543. 'Black Prince'. No. 452.

324544. 'Budos Koszin'. No. 42.

324545. 'Cambridge Countess'. No. 516.

324533 to 324706—Continued**324536 to 324692—Continued**

- 324546. 'Canava'. No. 323.
- 324547. 'Cardine'. No. 64.
- 324548. 'Carmensita'. No. 47.
- 324549. 'Chumbinho opaco'. No. 373.
- 324550. 'Coco maine blanche precoce'. No. 28.
- 324551. 'Comette'. No. 186.
- 324552. 'Consista'. No. 475.
- 324553. 'Crussol'. No. 27.
- 324554. 'D 8003 Beautiful'. No. 420.
- 324555. 'Dickfleischige Wachs'. No. 286.
- 324556. 'Dnyepetrovskaja bomba'. No. 385.
- 324557. 'Dobrogea'. No. 201.
- 324558. 'Dornburger Weisse'. No. 142.
- 324559. 'Dutsch Double Prinzess'. No. 720.
- 324560. 'Eislebener fruhe breite Wachs'. No. 53.
- 324561. 'Erfurter Speck'. No. 74.
- 324562. 'Fa-lan-dou'. No. 22.
- 324563. 'Fin de Bognoler'. No. 54.
- 324564. 'Fleissige Berta'. No. 206.
- 324565. 'Fromholds Treib'. No. 555.
- 324566. 'Fruhe Wachs II'. No. 126.
- 324567. 'F. Ruzenszkaja'. No. 205.
- 324568. 'Gh-175 a.'. No. 257.
- 324569. 'Goldquelle'. No. 131.
- 324570. 'Goldregen'. No. 55.
- 324571. 'Granda'. No. 101.
- 324572. 'Granda II'. No. 102.
- 324573. 'Gyongybab'. Landrace. No. 144.
- 324574. 'Harkovszkaja 4'. No. 386.
- 324575. 'Harzgruss'. No. 472.
- 324576. 'Haubnes fruhe Dickfleischige'. No. 301.
- 324577. 'Hindenburg Treib'. No. 295.
- 324578. 'Immertreu'. No. 133.
- 324579. 'Imperatore de Russia'. No. 105.
- 324580. 'Jalomiteana'. No. 148.
- 324581. 'Japanische Rostfrei'. No. 162.
- 324582. 'Jihmorovska bila krajova'. No. 705.
- 324583. 'Kaboon'. No. 85.
- 324584. 'Kaiser Wilhelm'. No. 106.
- 324585. 'Kapitan Weddingen'. No. 38.
- 324586. 'Karlsruhe Markt'. No. 107.
- 324587. 'Kenearly'. No. 213.

324533 to 324706—Continued

324536 to 324692—Continued

324588. 'Kengyertya'. Landrace. No. 147.
324589. 'Kocovska bila'. No. 362.
324590. 'Koda'. No. 71.
324591. 'Kompas'. No. 180.
324592. 'Komsomolka'. No. 313.
324593. 'Kozepbab'. No. 266.
324594. 'Krakowska'. No. 69.
324595. 'Krasznodarskaja 19305'. No. 387.

Landraces:

324596. 'Bodrogolaszi'. No. 692.
324597. 'Bodrogolaszi'. No. 964.
324598. 'Erpataki'. No. 975.
324599. 'Kiskunmajszai'. No. 1113.
324600. 'Lengyeltoti-i'. No. 978.
324601. 'Nagyatadi'. No. 980.
324602. 'Peneszleki'. No. 983.
324603. 'Puski-i'. No. 971.
324604. 'Somogyszobi'. No. 967.
324605. 'Lange Brech'. No. 175.
324606. 'Laposbab, feher'. No. 269.
324607. 'La Victorie'. No. 25.
324608. 'Majbab'. No. 270.
324609. 'Mangetout Enfant de Mont Calme'. No. 296.
324610. 'Marcellin'. No. 312.
324611. 'Mateszalkai'. No. 220.
324612. 'Mayorkain'. No. 216.
324613. 'Meisterwerk'. No. 81.
324614. 'Meksikanskaja'. No. 686.
324615. 'Metis Maireau'. No. 55.
324616. 'Metis Marocchino'. No. 702.
324617. 'Michelite'. No. 215.
324618. 'Michelets a longue cosse'. No. 396.
324619. 'Monroe'. No. 217.
324620. 'Montreuxi'. No. 111.
324621. 'Moriener st. 3055/40'. No. 698.
324622. 'M-2994'. No. 356.
324623. 'Nanko'. No. 94.
324624. 'Nasz \times Ultra'. No. 607.
324625. 'Nimbus'. No. 21.
324626. 'Nimbus'. No. 49.
324627. 'Nobila'. No. 283.
324628. 'Noired d'Evian'. No. 58.

324533 to 324706—Continued**324536 to 324692—Continued**

324629. 'Nonpariel'. No. 127.
324630. 'Nouvel eremitage'. No. 26.
324631. 'Oberrader Breite Extra'. No. 290.
324632. 'Ohelsenia'. No. 48.
324633. 'Olomucka krehka'. No. 277.
324634. 'Orion'. No. 226.
324635. 'Orion bila'. No. 364.
324636. 'Ostfriesi'. No. 115.
324637. 'Pearlgreen'. No. 829.
324638. 'Perlicky'. No. 128.
324639. 'P.H.V. 233. Mayorquais'. No. 358.
324640. 'P.H.V. 235. Selection C.R.A.'. No. 359.
324641. 'P.H.V. 247. Coco blanc'. No. 360.
324642. 'Pisarecka zlutoluska'. No. 169.
324643. 'Plena'. No. 476.
324644. 'Predonne'. No. 230.
324645. 'Prince'. No. 116.
324646. 'Quedlinburger Robusa'. No. 119.
324647. 'Quittlinga'. No. 5.
324648. 'Ratte Keutels'. No. 591.
324649. 'Refjudzsi selenosztrugovaja bez volonka'. No. 78.
324650. 'Regente'. No. 77.
324651. 'Robusta'. No. 236.
324652. 'Roi de Belge'. No. 590.
324653. 'Sabo'. No. 709.
324654. 'Sans Rival'. No. 506.
324655. 'Sans Rival'. No. 572.
324656. 'Saxagold'. No. 135.
324657. 'Saxanova'. No. 470.
324658. 'Schreibers Fruhe'. No. 315.
324659. 'Schreibwalder'. No. 704.
324660. 'Schweizwr Marktbeherrscher'. No. 59.
324661. 'Sipka'. No. 20.
324662. 'Slavia'. No. 305.
324663. 'Sniezna Kula'. No. 354.
324664. 'Sonnengold'. No. 285.
324665. 'Sonnengold'. No. 569.
324666. 'Sultan'. No. 140.
324667. 'Super Metis'. No. 7.
324668. 'Supermichelet'. No. 60.
324669. 'Szevernaja zvezda'. No. 89.
324670. 'Szombathelyi lapos feher'. No. 77.

324533 to 324706—Continued**324536 to 324692—Continued**

324671. 'The Prince'. No. 453.
 324672. 'Transval'. No. 164.
 324673. 'Tschermaks Fadenlose Wachs'. No. 184.
 324674. 'Unerschopffiche'. No. 136.
 324675. 'Vachs Unerschopfl. No. 284.
 324676. 'Vilgelm'. No. 378.
 324677. 'Vilhelm'. No. 251.
 324678. 'Virgo'. No. 20.
 324679. 'Voorluk 56007'. No. 1.
 324680. 'Vtoraja pjatiletka'. No. 324.
 324681. 'Wachs Aristokrat'. No. 182.
 324682. 'Wachs Arnstrat Koch'. No. 185.
 324683. 'Weibulls Express'. No. 566.
 324684. 'Weiner Treib'. No. 122.
 324685. 'Weisse Kochbone'. No. 123.
 324686. 'Weisse Nieren'. No. 172.
 324687. 'Wunder Butter'. No. 300.
 324688. 'Wunder des Marktes'. No. 567.
 324689. 'Zelenostrucnaja'. No. 634.
 324690. 'Zucker Brech Phonix'. No. 299.
 324691. 'Zlaty klenot'. No. 514.
 324692. 'Zucker Butter Brech'. No. 553.

324693 to 324706. PISUM SATIVUM L. Leguminosae.**Pea.**

324693. 'Abesinijas'. No. 696.
 324694. 'Alzinskij'. No. 772.
 324695. 'Arakass'. No. 758.
 324696. 'Ascania'. No. 736.
 324697. 'Gris d'Hiver'. No. 805.
 324698. 'Konyek gorbunok'. No. 692.
 324699. 'Munchener-Banater-Wintererbse'. No. 785.
 324700. 'Munchener Weissbluhende Wintererbse'. No. 802.
 324701. 'Nischkes Riesengebirgs Wintererbse'. No. 759.
 324702. 'Unrra /972/'. No. 791.
 324703. 'Wunterbergische-Wintererbse Population'. No. 807.
 324704. /DDR./ No. 659.
 324705. No. 830. From France.
 324706. No. 833. From Romania.

324707 and 324708. LYCOPERSICON (hybrid). Solanaceae.

From Bulgaria. Seeds presented by Director C. Daskaloff, Institute of Genetics and Plant Breeding, Sofia. Received Jan. 15, 1968.

(*L. pimpinellifolium* × *L. esculentum* 'Earliana'). Resistant to bacterial canker.

324707. No. 3. Suitable breeding parent; no commercial value.

324707 and 324708—Continued

324708. No. 8/12. Open-pollinated progeny of P.I. 324707.

Plant 80 to 100 cm. tall, good dark-green foliage cover. Inflorescence simple, 6 to 8 flowers. Fruit firm, smooth, ovate, two celled, green shoulders, small stem scar, crack resistant; mean weight 40 to 50 gms., dry matter 5.5 percent; suitable for canning.

324709. SCHIZOPHRAGMA HYDRANGEOIDES Sieb. & Zucc. Saxifragaceae.

From England. Plant presented by John Beattie, Ivy College, Reigate Heath, Reigate, Surrey. Received Jan. 15, 1968.

324710. VICIA sp. Leguminosae.

From the United States. Plants grown at National Plant Materials Center, Soil Conservation Service, Beltsville, Md. Received Jan. 15, 1968.

Component of P.I. 314155. Flowers red; peduncle long.

324711. LOLIUM MULTIFLORUM Lam. Gramineae.**Italian ryegrass.**

From Afghanistan. Seeds collected by J. R. Harlan, agricultural explorer, Crops Research Division, Beltsville, Maryland. Received Nov. 9, 1960. Seeds held by Regional Plant Introduction Station, Pullman, Washington. Numbered Jan. 15, 1968.

Component of P.I. 269385.

324712. DOMBEYA BURGESSIAE Gerrard Sterculiaceae.

From Kenya. Seeds collected by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Jan. 15, 1968.

Col. No. 8010.

324713 to 324839. AVENA STERILIS L. Gramineae.**Animated oats.**

From the United States. Seeds grown in southern California from collections made in the Mediterranean region by a joint expedition in 1964 of the Research Branch, Canada Department of Agriculture and the Welsh Plant Breeding Station, Aberystwyth.

Numbered Jan. 15, 1968.

Originally from Turkey.

324713. C.W. 372. Bodrum.

324714. C.W. 374. Halfway between Bodrum and Karaova.

Originally from Greece.

324715. C.W. 376. Thirty km. east of Corinth.

324716. C.W. 377. Athens.

324717. C.W. 378. Corinth.

324718. C.W. 379. Athens, seashore.

324719. C.W. 380. Twenty-nine km. southeast of Athens.

324720. C.W. 384. Halfway between Varkiza and Anavissos.

324721. C.W. 386. Mt. Hymetos.

324722. C.W. 392. Naousa.

324723. C.W. 393. Naousa.

324724. C.W. 394. Five km. south of Aghia Varvara, Crete.

324713 to 324839—Continued

324725. C.W. 395. Pírgos, Crete.
324726. C.W. 396. Pírgos, Crete.
324727. C.W. 397. Messara Station, Crete.
324728. C.W. 398. Phaestos, Crete.
324729. C.W. 399. St. Titus' church, Crete.
324730. C.W. 402. Ierapetra, Crete.
324731. C.W. 403. Knossos, Crete.
324732. C.W. 404. Knossos, Crete.

Originally from Italy.

324733. C.W. 409. Bari Airport.
324734. C.W. 410. Bari Airport.
324735. C.W. 412. Rome Coliseum.
324736. C.W. 413. Livorno.
324737. C.W. 414. Rome Airport.
324738. C.W. 415. Rome.
324739. C.W. 416. Rome, old Via Appia.
324740. C.W. 417. Rome, old Via Appia.

Originally from Sicily.

324741. C.W. 419. Capaci.
324742. C.W. 420. Four km. east of Cinisi.
324743. C.W. 421. Bolognetta.
324744. C.W. 422. Misilmeri.
324745. C.W. 424. Trabia.
324746. C.W. 427. Ten km. east of Agrigento.
324747. C.W. 428. Halfway between Palma and Licata.
324748. C.W. 429. Ten km. west of Gela.
324749. C.W. 430. Ten km. north of Gela.
324750. C.W. 431. Prioto.
324751. C.W. 432. Twenty-seven km. east of Gela.
324752. C.W. 434. Francofonte.
324753. C.W. 435. Five km. north of Lentini.
324754. C.W. 436. Ten km. south of Catania.
324755. C.W. 439. Near Paterno.
324756. C.W. 440. Via 192 Paterno.

Originally from Sardinia.

324757. C.W. 445. Twenty km. northeast of Cagliari.
324758. C.W. 446. Monastir.
324759. C.W. 447. Between Sardara and Sanluri.
324760. C.W. 448. Uras.
324761. C.W. 449. Five km. northwest of Sassari.
324762. C.W. 450. Twenty km. northeast of Sorso.
324763. C.W. 451. Nine km. west of Castel Sardo.

324713 to 324839—Continued

Originally from Corsica.

324764. C.W. 452. West of Ajaccio.

324765. C.W. 453. West of Ajaccio.

324766. C.W. 454. Biguglia.

Originally from Libya.

324767. C.W. 456. Ghemines.

324768. C.W. 457. Sidi Abdul Atti.

324769. C.W. 458. Solluk.

324770. C.W. 459. Dariana.

324771. C.W. 460. Between Dariana and Tocra.

324772. C.W. 461. Between Dariana and Tocra.

324773. C.W. 462. Birsis.

324774. C.W. 463. Birsis.

324775. C.W. 464. Farzaugha.

324776. C.W. 465. Bayoda.

324777. C.W. 466. Lothroun.

324778. C.W. 467. Messa.

324779. C.W. 468. Lothroun.

324780. C.W. 471. Technis.

324781. C.W. 472. Technis.

324782. C.W. 474. Abiar.

324783. C.W. 475. Al-Guarsha.

324784. C.W. 476. Nofolia.

324785. C.W. 477. Eddafina.

324786. C.W. 478. Khoms.

324787. C.W. 479. Tarhuna.

324788. C.W. 480. Al-Rgaiaat.

324789. C.W. 481. Al-Rgaiaat.

324790. C.W. 482. Al-Rgaiaat.

324791. C.W. 483. Al-Rgaiaat.

324792. C.W. 484. Sabratha.

Originally from Tunisia.

324793. C.W. 485. Tunis.

324794. C.W. 486. Zana.

324795. C.W. 487. Menzel Borguiba.

324796. C.W. 488. Menzel Borguiba.

324797. C.W. 489. Two km. southwest of Mateur.

324798. C.W. 490. Twelve km. northeast of Beja.

Originally from Algeria.

324799. C.W. 491. Algiers Airport.

324800. C.W. 493. Misserghin.

324801. C.W. 494. Misserghin.

324713 to 324839—Continued

324802. C.W. 494. Misserghin.
324803. C.W. 496. Ten km. west of Oran.
324804. C.W. 497. Ten km. west of Oran.
324805. C.W. 499. Ten km. west of Oran.
324806. C.W. 500. Ain El Turk.
324807. C.W. 503. Bouisville.
324808. C.W. 504. Bouisville.
324809. C.W. 506. Bouisville.
324810. C.W. 507. Bousfer.
324811. C.W. 508. Bou-Ster.
324812. C.W. 509. Bou-Ster.
324813. C.W. 510. Bou-Ster.
324814. C.W. 511. Misserghin.
324815. C.W. 512. Four km. west of Bou-Ster.
324816. C.W. 513. Kristel.
324817. C.W. 514. Arcole.
324818. C.W. 515. Arcole.
324819. C.W. 516. Tabia.
324820. C.W. 517. Three km. south of Ain El Turk.
324821. C.W. 518. Bou Tlelis.

Originally from Morocco.

324822. C.W. 519. Tangier.
324823. C.W. 520. Tangier.
324824. C.W. 521. Tangier.
324825. C.W. 522. Between Rabat and Meknes.
324826. C.W. 523. Between Rabat and Keknes.
324827. C.W. 524. Fifteen km. south of Tiflet.
324828. C.W. 525. Thirty km. south of Tiflet.
324829. C.W. 526. Oulmes.
324830. C.W. 527. Oulmes.
324831. C.W. 529. Oulmes.
324832. C.W. 530. Tidas.
324833. C.W. 531. Sefrou.
324834. C.W. 532. Sefrou.

Originally from Gibraltar.

324835. C.W. 533. On the Rock.
324836. C.W. 534. On the Rock.
324837. C.W. 535. On the Rock.

Originally from Spain.

324838. C.W. 537. Madrid.
324839. C.W. 538. Madrid.

324840 to 324879. SACCHARUM (hybrid) Gramineae. Sugarcane.

From India. Cuttings presented by the Sugarcane Breeding Institute, Coimbatore. Received Jan. 16, 1968.

- 324840. 'Chynia'.
- 324841. 'Dehradun I'. (*S. spontaneum*).
- 324842. 'Dehradun II'. (*S. spontaneum*).
- 324843. 'Dhaur Alig'. (*S. spontaneum*).
- 324844. 'Fiji' B'.
- 324845. 'Java Hebbal'.
- 324846. 'Kansar'.
- 324847. 'Karia'.
- 324848. 'Khakai'.
- 324849. 'Lalri'.
- 324850. 'Meligelli'.
- 324851. 'Nepal'. (*S. spontaneum*).
- 324852. 'Pararia'.
- 324853. P'111.
- 324854. Co. 407.
- 324855. Co. 607.
- 324856. Co. 975.
- 324857. Co. 1295.
- 324858. Co. 6301.
- 324859. Co. 6304.
- 324860. Co. 6305.
- 324861. Co. 6314.
- 324862. Co. 6320.
- 324863. Co. 6415.
- 324864. Co. 62175.
- 324865. 96 NG 24A.
- 324866. POJ 501.
- 324867. I.A. 133.
- 324868. I.A. 996.
- 324869. I.A. 1046.
- 324870. I.A. 1344.
- 324871. I.A. 1390.
- 324872. I.A. 1481.
- 324873. I.A. 1499.
- 324874. I.A. 1517.
- 324875. I.A. 1523.
- 324876. SES 103.
- 324877. SES 184A.
- 324878. SES 527.
- 324879. Co-6602.

324880 to 324883. CYDONIA OBLONGA Mill. Rosaceae. Quince.

From France. Seeds presented by the Station de Recherches D'Arboriculture et D'Oenologie, Belle-Beille, Angers. Received Jan. 16, 1968.

324880. C-5-R.

324882. C-255.

324881. C-75-10.

324883. C-256.

324884. PYRUS PASHIA Buch.-Ham. ex Don Rosaceae.

From India. Seeds presented by the Horticultural Division, Indian Agricultural Research Institute, New Delhi. Received Jan. 16, 1968.

324885 and 324886. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.

From New Zealand. Tubers presented by Department Scientific and Industrial Research, Otara, through J. C. Miller, Department of Horticulture, Louisiana State University, Baton Rouge, Louisiana. Numbered Jan. 17, 1968.

324885. No. 255. Originally from Port Moresby, Australian New Guinea. (May be identical with P.I. 286619.)

324886. No. 394. Originally from Vila, New Hebrides.

324887. IPOMOEA BATATAS (L.) Lam. Sweetpotato.

From the United States. Tubers presented by J. C. Miller, Department of Horticulture, Louisiana State University, Baton Rouge, La. Numbered Jan. 17, 1968.

Original source unknown.

324888. IPOMOEA BATATAS (L.) Lam. Sweetpotato.

From Taiwan. Tubers collected by A. L. Neville, Columbia, South Carolina. Numbered Jan. 17, 1968.

324889. IPOMOEA BATATAS (L.) Lam. Sweetpotato.

From Peru. Tubers presented by L. W. Nielson, Department of Plant Pathology, North Carolina State University, Raleigh, North Carolina. Numbered Jan. 17, 1968.

'Camote Amarillo'.

324890. HIBISCUS CANNABINUS L. Malvaceae. Kenaf.

From Ghana. Seeds presented by S. Y. Amanquah, Crops Research Institute, Ghana Academy of Sciences, Kumasi. Received Jan. 17, 1968.

From Ashiaman, near Tema.

324891 to 324904.

From the United States. Plants submitted through C. N. Hittle, University of Illinois, Urbana. Originally from Poland unless otherwise stated. Numbered Jan. 17, 1968.

324891 and 324892. MEDICAGO SATIVA L. Leguminosae. Alfalfa.

324891. Col. No. A-1074. 'Sandomierska'. Plants medium erect, to 105 cm., vigorous; flowers purple, lilac, variegated.

324892. Col. No. A-1075. 'San Pedro'. Originally from Peru. Submitted through Howard Kaerwer, Northrup King & Company, Minneapolis, Minn. Plant 'Hairy Peruvian' type, medium erect, vigorous; stems to 107 cm. long; flowers purple.

324893 to 324896. MEDICAGO SATIVA var. VARIA (Mart.) Urb.

324893. Col. No. A-1070. 'Miechowska'. Plant nearly erect, 80 cm. high, vigorous; leaflets medium large; flowers purple.

324891 to 324904—Continued**324893 to 324896—Continued**

324894. Col. No. A-1071. 'Pulawska'. Plant medium erect, to 170 cm., vigorous; leaflets medium large; flowers purple or variegated.

324895. Col. No. A-1072. 'Wrelkopolska'. Plant medium erect, to 78 cm., vigorous; leaflets medium large; flowers purple or variegated.

324896. Col. No. A-1073. 'Kleszczewska'. Plant medium erect, to 85 cm., vigorous; leaflets medium large; flowers purple, much variegated.

324897. TRIFOLIUM HYBRIDUM L. Leguminosae. Alsike clover.

Col. No. A-1069. 'Zorza'. Plant prostrate, vigorous, medium maturity; stems 70 cm. long; flowers pink or white.

324898 to 324901. TRIFOLIUM PRATENSE L. Red clover.

324898. Col. No. A-1063. 'Gloria'. Plant medium erect, to 60 cm. high, vigorous, medium maturity; flowers pink.

324899. Col. No. A-1064. 'Hruszowska'. Plant medium erect to 73 cm. high, vigorous, medium maturity.

324900. Col. No. A-1065. 'Radzikowska'. Plant medium erect, to 63 cm. high, vigorous, medium maturity; flowers pink.

324901. Col. No. A-1066. 'Skrzeszowicka'. Plant medium erect, to 60 cm. high, vigorous, medium maturity; flowers pink.

324902. TRIFOLIUM REPENS L. White clover.

Col. No. A-1068. 'Hollandicum'. Plant prostrate, vigorous, late; stems 15 cm. long; flowers white.

324903. TRIFOLIUM REPENS f. GIGANTEUM Larg.-Fosset Ladino clover.

Col. No. A-1067. Plant prostrate, vigorous, late; stems 25 cm. long; flowers white.

324904. TRIPSACUM DACTYLOIDES L. Gramineae. Eastern gamagrass.

Col. No. A-1062. Originally from the United States. Submitted by Kling Anderson, Kansas State University, Manhattan, Kansas. Plant to 2 m. high, vigorous, uniform, late, hardy.

324905 and 324906. LEUCAENA LEUCOCEPHALA (Lam.) De Wit Leguminosae. Leadtree.

From El Salvador. Seeds collected by Arthur T. Semple, Longmont, Colorado, for the University of Hawaii. Received Jan. 18, 1968.

324905. Col. No. 1. Hacienda Carrera, near Usultán. First tree in lane north of main dairy barn. Very fertile black soil. Elevation 10 m. Tree to 10 m. high, trunk 20 to 25 cm. diameter. Seeds collected from ground under tree.

324906. Col. No. 5. Experiment Station with ponds near Santo Cruz Porillo. Mixed seed sample from two or more trees.

324907 and 324908.

From Guatemala. Seeds collected by Arthur T. Semple, Longmont, Colorado, for the University of Hawaii. Received Jan. 18, 1968.

324907. BROSIMUM ALICASTRUM Swartz. Moraceae. Bread-nut tree.

Col. No. 7. Local name: Vamon. Near ruins at Tikal, Peten. Tree large, producing 200 pounds of nutlike fruits.

324908. LEUCAENA LEUCOCEPHALA (Lam.) De Wit Leguminosae. Leadtree.

Col. No. 6. Local name: Guaje o yaje. From Finca Trujillo, property of Don Luis A. Cordon, Usumatlan, Zacapa.

324909 to 324911.

From Honduras. Seeds collected by Arthur T. Semple, Longmont, Colorado, for the University of Hawaii. Received Jan. 18, 1968.

324909. *CENTROSEMA* sp. Leguminosae.

Col. No. 2. Near artificial lake at Escuela Agricola Panamericana, Zamorano. Vinelike; stems fine; leaves narrow, few.

324910. *DESMODIUM BARBATUM* (L.) Benth. Leguminosae.

Col. No. 4. In pasture crossed by new airstrip at Escuela Agricola Panamericana, Zamorano. Plant large, vigorous.

324911. *DOLICHOS LABLAB* L. Leguminosae. **Hyacinth-bean.**

Col. No. 3. Near library at Escuela Agricola Panamericana, Zamorano. Vine; flowers in two shades of purple.

324912 to 324920.

From Mexico. Seeds collected by Arthur T. Semple, Longmont, Colorado, for the University of Hawaii. Received Jan. 18, 1968.

324912. *INDIGOFERA* sp. Leguminosae.

Col. No. 9. Along highway from Merida, beyond Tical, Yucatan where thick stands of almost pure *Bouteloua* sp. are common.

324913 to 324918. *LEUCAENA LEUCOCEPHALA* (Lam.) De Wit Leguminosae.
Leadtree.

324913. Col. No. 8. Local name, Huaxin. Ungrazed, thick growth of bushes near windmill at end of Seventh Calle, Merida, Yucatan, beyond ISSSTE hospital. Tree to 10 feet high. Pods green.

324914. Col. No. 10. Near House of Turtles at ruins of Uxmal, Yucatan. Pods wide.

324915. Col. No. 11. Local name, Huaxin. Ungrazed, thick growth of bushes near windmill at end of Seventh Calle, Merida, Yucatan. Tree small; pods green; considerable insect damage. Tree in same locality as P.I. 324913.

324916. Col. No. 14. Local name, Huaxin. In abandoned lot near Km. 1071, on edge of Uman toward Merida. Pods very smooth, almost completely free of insect damage. Flowers both mature and immature.

324917. Col. No. 16. Ruins of Dzibichaltun between Merida and Progreso, Yucatan.

324918. Col. No. 17. Ruins of Dzibichaltun between Merida and Progreso, Yucatan. Different tree from P.I. 324917.

324919. *LEUCAENA* sp.

Col. No. 12. Local name, Salan. Lone tree along highway near top of ridge beyond Muna from Merida, Yucatan, about 0.20 km. below the cross. Tree showed signs of pollarding. Bushel-size parasite growing on upper part of one branch.

324920. *LEUCAENA* sp.

Col. No. 13. Local name, Salan. About 20 m. west of cross at top of ridge beyond Muna from Merida, Yucatan. Tree small with signs of pollarding.

324921 to 324923. HIBISCUS CANNABINUS L. Malvaceae. Kenaf.

From Iran. Seeds presented by United States Agency for International Development, Tehran. Original stock received from All-Union Institute of Plant Industry, Leningrad, Soviet Union. Received Jan. 18, 1968.

Grown in 1967 at Varamin Cotton Station near Tehran.

324921 to 324923—Continued

324921. K333.

324922. No. 1574.

324923. No. 3876.

324924. GLYCINE MAX (L.) Merr. Leguminosae. Soybean.

From Rhodesia. Seeds presented by J. R. Tattersfield, Department of Research and Specialist Services, Salisbury Research Station, Salisbury. Received Jan. 19, 1968.

'Rhosa'. (Lincoln x Blyvoor).

324925. PYRACANTHA CRENULATA (D. Don) Roemer Rosaceae. Nepal firethorn.

From England. Plants presented by Treseders Nurseries (Truto) Ltd., Cornwall. Numbered Jan. 19, 1968.

'Lownde's Early Red'.

324926 to 324930. TRITICUM DURUM Desf. Gramineae. Durum wheat.

From Argentina. Seeds presented by A. L. Chabrillon, Instituto Nacional de Tecnologia Agropecuaria, Parana. Received Jan. 19, 1968.

Pedigree of 12:61 is: C. Durumbuck x (Yt.54 x N.10-B.21)

(Durum No2)Te2 x Lakota.

324926. 12:61-(1T)-3T-1T-2B-2T-1B.

324927. 12:61-(7T)-16T-1B-10T-2B-2T.

324928. 12:61-(8T)-5T-2aT-2B-1T-1B.

324929. 12:61-(8T)-5T-2aT-2B-2T.

324930. 12:61-(12T)-5T-1T-2B-2T-1B.

324931 to 324939. TRITICUM DURUM Desf. Durum wheat.

From Tunisia. Seeds presented by the Institut National de la Recherche Agronomique de Tunisie, Ariana, through K. L. Lebsock, North Dakota State University, Fargo, North Dakota. Received Jan. 19, 1968.

324931. BD 1342. 55 BV-6-b-c (Baladi x Akkar). Resistant to *Septoria tritici*.

324932. BD 1407-B.(53 AB-5 x Kyperunda-Kambouric). Resistant to *Puccinia striiformis* and *P. recondita*.

324933. BD 1499. Ethiopian. Resistant to *Puccinia recondita* and *P. graminis*.

324934. BD 1522. Arabian. Rust resistant.

324935. BD 1548. (Kyperunda x Yrellourico). Resistant to *Septoria tritici* and *Puccinia recondita*.

324936. BD 1575. Maliani 6. Resistant to *Septoria tritici*.

324937. BD 1588. Ethiopian dicocum type.

324938. D 56-89-c. (LD 341 x (Mahmoudi-M Rari)2): Resistant to *Puccinia graminis*.

324939. D 58-25-A. (Mahmoudi 981 r Kyperunda). Productive, early.

324940 to 325078.

From Taiwan. Seeds collected by John L. Creech, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Jan. 22, 1968.

324940 to 325078—Continued

324940. *ABIES KAWAKAMII* (Hayata) Ito. Pinaceae.

Col. No. 1556. Mt. Hohuan. Open, grassy meadow with rhododendron and juniper. Elevation 3,100 m. Handsome fir with pyramidal habit when young; cones large, purple, upright.

324941. *ACER MORRISONENSE* Hayata. Aceraceae.

Col. No. 1468. On Tsu-shan at edge of summit. Elevation 2,400 m.

324942. *ACER TAITONMONTANUM* (Hayata) Li

Col. No. 1559. Below Lishan on shale cliff. Elevation 2,200 m. Tree small, to 4.5 m. high, straggly habit; leaves yellow.

324943. *ACER* sp. Aceraceae.

Col. No. 1572. Along road between Lishan and Hohuan. Elevation 2,100 m. Leaves lobed, bright red.

324944 and 324945. *ACTINIDIA LATIFOLIA* (Gardn. & Champ.) Merr. Actinidiaceae.

324944. Col. No. 1601. Along roadside near Sun-moon Lake. Elevation 1,000 m. Straggly vine differing from *A. chinensis* by lack of dense hairs on stems and fruit. Cuttings.

324945. Col. No. 1602. Along roadside near Sun-moon Lake. Elevation 1,000 m. Vine growing high in tree tops; fruit ovoid in dense clusters, lacks hairiness of *A. chinensis*. Seeds.

324946. *ALNUS FORMOSANA* (Burk.) Mak. Betulaceae.

Col. No. 1476. Ta-shan, a small wooded mountain near Alishan. Elevation 2,200 m.

324947 and 324948. *ARDISIA CRISPA* (Thunb.) A. DC. Myrsinaceae.

324947. Col. No. 1460. Growing as undershrub in broadleaved forest on Mt. Tatung, Taipeh. Elevation 500 m.

324948. Col. No. 1538. Growing among azaleas on cliff near roadside near Wushi. Shrub to 0.9 m. high; fruit red.

324949. *ARDISIA* sp. Myrsinaceae.

Col. No. 1587. At Lin-hua-chi, evergreen forest. Elevation 1,100 m. Evergreen tree, small; fruit black.

324950. *ARISAEMA* sp. Araceae.

Col. No. 1479. In forest undergrowth on Tsu-shan, Alishan. Elevation 2,400 m. Ovoid; fruit red.

324951. *BERBERIS KAWAKAMII* Hayata Berberidaceae.

Col. No. 1513. On trail to Mt. Morrison, in shady places. Elevation 3,200 m.

324952 and 324953. *BERBERIS MORRISONENSIS* Hayata

324952. Col. No. 1499. On slopes of Mt. Morrison in open shale. Elevation 3,920 m.

324953. Col. No. 1504. On Mt. Morrison, open shale area. Elevation 3,970 m.

324954. *CALLICARPA FORMOSANA* Rolfe Verbenaceae.

Col. No. 1532. Sunny places along river, Kanko. Very common. Small shrub; flowers in axillary cymes; fruit prolific, in clusters, purple.

324955 and 324956. *CAMELLIA NOKOENSIS* Hayata Theaceae.

324955. Col. No. 1550. Evergreen forest along roadside on route to Mt. Hohuan. Cuttings.

324940 to 325078—Continued

324955 and 324956—Continued

324956. Col. No. 1588. At Lin-hua-chi forest, along logging road. Evergreen shrub; fruit small, globose, two seeded, rather local in distribution. Seeds.

324957. *CAMELLIA SALICIFOLIA* Champ. ex Benth.

Col. No. 1584. In evergreen forest at Lin-hua-chi Station. Elevation 1,100 m. Camellia with axillary flowers, small, drooping.

324958. *CAMELLIA* sp. Theaceae.

Col. No. 1585. In evergreen forest at Lin-hua-chi. Leaves lanceolate, shiny.

324959. *CARPINUS KAWAKAMII* Hayata Betulaceae.

Col. No. 1574. Along road between Lishan and Hohuan, Elevation 2,100 m. Tree small, deciduous; fruit in catkin; nutlets glandular.

324960 and 324961. *CASTANOPSIS CARLESII* (Hemsl.) Hayata Fagaceae.

324960. Col. No. 1591. At Lin-jua-chi Forestry Station near Sun-moon Lake. Elevation 1,000 m. Evergreen tree, trunk straight; fruit in spikes; acorns ovoid.

324961. Col. No. 1592. Lin-hua-chi Forestry Station. Evergreen oak; leaves large; acorns small.

324962. *CASTANOPSIS HYSTRIX* A. DC. Evergreen chinquapin.

Col. No. 1590. At Lin-hua-chi Forestry Station. Elevation 1,000 m. Evergreen tree to 40 m. high.

324963. *CELASTRUS* sp. Celastraceae.

Col. No. 1548. Along track to Mt. Hohuan. Elevation 2,500 m. Climbing on evergreen oaks.

324964. *CHAMAECYPARIS OBTUSA* var. *FORMOSANA* (Hayata) Rehder Pinaceae.

Col. No. 1521. Mt. Alishan, in pine stand. Elevation 2,300 m.

324965. *CLEYERA JAPONICA* Thunb. Theaceae.

Col. No. 1545. Evergreen forest along road to Mt. Hohuan, 2,200 m. above Sun-shi.

324966 to 324968. *COTONEASTER MORRISONENSIS* Hayata Rosaceae.

324966. Col. No. 1495. On path to Mt. Morrison. Elevation 3,000 m. Prostrate evergreen; fruit red.

324967. Col. No. 1519. On rock walls and loose boulders, lower elevations of Mt. Morrison. Elevation 2,900 m.

324968. Col. No. 1553. Open grassy slopes near Mt. Hohuan. Elevation 3,200 m. Shrub, low, prostrate; fruit red endemic to high grasslands, in northern parts of island.

324969. *CUNNINGHAMIA LANCEOLATA* (Lamb.) Hook. Pinaceae.

Col. No. 1540. Along roadside near Wushi, road to Mt. Hohuan.

324970. *DAPHNIPHYLLUM PENTANDRUM* var. *OLDHAMII* (Hemsl.) Hurusawa Euphorbiaceae.

Col. No. 1599. Sun-moon Lake, Nantao. Evergreen tree, fruits black.

324971. *DEUTZIA PULCHRA* Vidal Saxifragaceae.

Col. No. 1475. Ta-shan on sunny bank along trail to mountain top.

324972 and 324973. *EUONYMUS ECHINATUS* Wall. in Roxb. Celastraceae.

324940 to 325078—Continued

324972 and 324973—Continued

324972. Col. No. 1477. On path to top of Tsu-shan as a liana. Elevation 2,400 m. Evergreen vine with spined fruits enclosing a bright red aril.

324973. Col. No. 1558. Below Lishan in mixed conifer, oak forest. Elevation 2,400 m. Scrambling vine, probably evergreen; fruit green with red aril.

324974. *EUONYMUS PALLIDIFOLIA* Hayata

Col. No. 1498. On path to Mt. Morrison, among rocks. Elevation 3,100 m. Upright shrub, evergreen; capsule lovely pink, opening flat, giving whole plant appearance of flowering.

324975. *EURYA CRENATIFOLIA* (Yamamoto) Kobuski Theaceae.

Col. No. 1462. Along roadside, below Lishan, in broadleaved evergreen forest. Elevation 2,200 m. Evergreen, small leaved species, characterized by more than 5 stamens; fruit small, purple black.

324976. *EURYA GLABERRIMA* Hayata

Col. No. 1511. In sunny places along trail from Mt. Morrison. Elevation 3,300 m.

324977. *GARDENIA AUGUSTA* (L.) Merrill Rubiaceae.

Col. No. 1589. Lin-hua-chi, along logging road in evergreen forest. Elevation 1,000 m. Evergreen shrub, leaves entire, opposite; fruit ellipsoid cupped by persistent calyx tube. Possible value as rootstock.

324978 and 324979. *GAULTHERIA BORNEENSIS* Stapf Ericaceae.

324978. Col. 1488. On Rulin-shan in covered moist areas, Morrison Range. Elevation 2,500 m.

324979. Col. No. 1510. Shady places, on trail to Mt. Morrison. Elevation 3,300 m.

324980. *GAULTHERIA CUMINGIANA* Vidal.

Col. No. 1470. On Tsu-shan, growing as subshrub along path. Elevation 2,300 m.

324981. *GLYCOSMIS PENTAPHYLHA* (Retz.) Correa Rutaceae.

Col. No. 1527. Along path near river at Kanko. Elevation 300 m. Shrub, small; flowers white.

324982. *GORDONIA AXILLARIS* (Roxb.) Dietrich. Theaceae.

Col. No. 1575. Evergreen forest along road between Lishan and Hohuan. Elevation 2,100 m. highest elevation for this species. Evergreen tree, in full bloom; flowers large, white.

324983. *HELICIA FORMOSANA* Hemsl. Proteaceae.

Col. No. 1531. Sunny places, near river bank at Kanko. Evergreen tree, small; flowers in long axillary racemes. Potential small shade for southern localities.

324984. *HYDRANGEA CHINENSIS* Maxim. Saxifragaceae.

Col. No. 1539. Among azaleas on cliff above road at Wushi. Evergreen shrub.

324985. *HYDRANGEA INTEGRIFOLIA* Hayata ex Matsum. & Hayata

Col. No. 1568. Above Lishan, climbing on oaks, rare. Elevation 2,600 m. Evergreen vine; leaves large, entire.

314986. *HYPERICUM* sp. Guttiferae.

Col. No. 1464. Growing around buildings on Mt. Alishan. Elevation 2,300 m. Flowers large, yellow.

324940 to 325078—Continued

324987 and 324988. *ILEX PUBESCENS* Hook. & Arn. Aquifoliaceae.

324987. Col. No. 1534. Near streambank, dense wooded area near Kanko. Tree, small, evergreen; flowers in short axillary racemes.

324988. Col. No. 1600. Sun-moon Lake, along roadside. Elevation 1,200 m. Shrub, straggly, evergreen; fruit small, red.

324989 and 324990. *JUNIPERUS FORMOSANA* Hayata Pinaceae.

324989. Col. No. 1554. Mt. Hohuan, open grassy meadow with rhododendrons and cotoneaster. Elevation 3,000 m. Plant prostrate, small due to high elevation.

324990. Col. No. 1557. Mt. Hohuan, alpine meadow, mixed with fir. Elevation 3,100 m. Plant low growing, almost prostrate.

324991 and 324992. *JUNIPERUS SQUAMATA* Buch.-Ham. ex Lambert.

324991. Col. No. 1500. Mt. Morrison, growing in loose shale. Elevation 3,900 m. Decumbent form.

324992. Col. No. 1508. Mt. Morrison, open, loose shale. Elevation 3,990 m.

324993. *KETELEERIA DAVIDIANA* (Bertrand) Beissner. Pinaceae.

Col. No. 1583. Lin-hua-chi Forestry Station near Sun-moon Lake. Large conifer with two-ranked lustrous leaves; cones erect. Germination reported difficult.

324994. *LAGERSTROEMIA SUBCOSTATA* Koehne. Lythraceae.

Col. No. 1536. Sunny place along path to Kanko. Elevation 300 m. Deciduous tree; flowers pink in showy terminal clusters.

324995. *LASIANTHUS CHINENSIS* Benth. Rubiaceae.

Col. No. 1526. Shaded banks along river bed near Kanko. Shrub; flowers in dense clusters; fruit black.

324996. *LASIANTHUS CYANOCARPUS* Jack.

Col. No. 1530. Shady places along path near Kanko. Elevation 300 m. Shrub, small; flowers in axillary clusters; fruit bright blue.

324997. *LASIANTHUS PLAGIOPHYLLUS* Hance.

Col. No. 1528. Wooded, shady area near Kanko. Evergreen shrub; flowers in axillary clusters, white; fruit blue.

324998. *LIGUSTRUM MICROCARPUM* Kanehira & Sasaki Oleaceae.

Col. No. 1469. Open sunny, sandstone area, on Tsu-shan. Elevation 2,400 m.

324999. *LIGUSTRUM MORRISONENSE* Kanehira & Sasaki

Col. No. 1518. Sunny places along trail to Mt. Morrison. Elevation 2,900 m. Leaves minute.

325000. *LILIUM PHILIPPINENSE* var. *FORMOSANUM* (Baker) Wils. ex Grove Liliaceae.

Col. No. 1497. On path to Mt. Morrison. Small lily; flowers white.

325001. *LONICERA ACUMINATA* Wall. Caprifoliaceae.

Col. No. 1471. On Tsu-shan, mixed with azaleas. Elevation 2,300 m. Vine, scandent, half evergreen; leaves opposite lanceolate; fruit blue in terminal umbel.

325002 and 325003. *LYONIA OVALIFOLIA* (Wall.) Drude Ericaceae.

325002. Col. No. 1456. Near sulfur hot spring on Mt. Tatung, Taipeh. Elevation 600 m. Shrub, evergreen, small; leaves thick, coriaceous; flowers in axillary racemes.

324940 to 325078—Continued

325002 and 325003—Continued

325003. Col. No. 1472. On Tsu-shan, growing in sandstone bank
Elevation 2,350 m.

325004. *MALUS FORMOSANA* (Kaw. & Koidz) Kaw. Rosaceae.

Col. No. 1543. Along mountain road near Sunkan. Elevation 2,100 m.

325005. *MELOTHRIA* sp. Cucurbitaceae.

Col. No. 1525. Along path between Quai-san and Kanko. Vine; fruit
spindle shaped, bright red.

325006. *OSMANTHUS HETEROPHYLLUS* (G. Don) P.S. Green Oleaceae.

Col. No. 1494. Growing along path on Rulin-shan, near Tung-pu. Eleva-
tion 2,500 m.

325007. *PASANIA BREVICAUDATA* (Skan) Schottky Fagaceae.

Col. No. 1593. Lin-hua-chi Forestry Station near Sun-moon Lake.
Elevation 1,000 m. Evergreen oak to 20 m. high; trunk straight; large
handsome acorns.

325008. *PHOTINIA* sp. Rosaceae.

Col. No. 1524. Between Quai-san and Kanko. Elevation 300 m.

325009. *PHOTINIA* sp.

Col. No. 1549. On edge of escarpment, road to Mt. Hohuan. Elevation
2,500 m.

325010. *PHOTINIA* sp.

Col. No. 1579. Chabooti, small logging station. Elevation 300 m.
Evergreen shrub; fruit red.

325011 to 325013. *PIERIS TAIWANENSIS* Hayata Ericaceae.

325011. Col. No. 1462. From plants growing in garden at Mt. Alishan.
Elevation 2,200 m.

325012. Col. No. 1483. In open meadow on Rulin-shan, Morrison Range.
Elevation 2,600 m. Evergreen shrub, low, compact; young leaves and
flower clusters bright reddish.

325013. Col. No. 1490. Open meadow on Rulin-shan. Elevation 2,700 m.

325014. *PITTIOSPORUM DAPHNIPHYLLOIDES* Hayata Pittosporaceae.

Col. No. 1569. Along roadside above Lishan; hanging from roadside
cliff. Elevation 2,300 m. Evergreen shrub, epiphytic; fruit red.

325015. *PLATYCARYA STROBILACEA* Sieb. & Zucc. Juglandaceae.

Col. No. 1573. Dry area, along road between Lishan and Hohuan.
Elevation 2,100 m. Tree, deciduous, to 12 m. high; fruit is conelike catkin.
Rare.

325016. *PRUNUS PHAEOSTICTA* (Hance) Maxim. Rosaceae.

Col. No. 1542. Along road in evergreen forest near Sunkan. Elevation
2,100 m.

325017. *PRUNUS* sp.

Col. No. 1605. Dry area along roadside, Sun-moon Lake. Tree deciduous,
straggly; fruit black; rather poor habit.

325018. *PSYCHOTRIA RUBRA* (Lour.) Poir Rubiaceae.

Col. No. 1581. Lin-hua-chi, Nantou County, on road to Sun-moon Lake.
Evergreen shrub, small; fruit red.

325019. *QUERCUS ACUTISSIMA* Carruthers Fagaceae.

Col. No. 1577. Dry area along road from Lishan to Hohuan. Elevation
2,000 m.

324940 to 325078—Continued

325020. QUERCUS sp.

Col. No. 1560. Evergreen-conifer forest along road below Lishan. Elevation 2,300 m. Evergreen tree; acorns small.

325021. QUERCUS sp.

Col. No. 1578. Evergreen forest along road between Lishan and Hohuan. Elevation 2,200 m.

325022. RANDIA COCHINCHINENSIS (Lour.) Merr. Rubiaceae.

Col. No. 1582. Lin-hua-chi, along logging road near Sun-moon Lake. Elevation 1,000 m. Evergreen tree, small; flowers in axillary racemes.

324023 and 324024. RHODODENDRON ELLIPTICUM Maxim. Ericaceae.

325023. Col. No. 1570. Along mountain road between Lishan and Hohuan. Elevation 2,200 m. Evergreen shrub; characterized by peculiarly long thin capsules; flowers pink.

325024. Col. No. 1576. In evergreen forest along road from Lishan to Hohuan. Elevation 2,000 m.

325025. RHODODENDRON FORMOSANUM Hemsl.

Col. No. 1463. From small garden at Mt. Alishan. Elevation 2,200 m.

325026. RHODODENDRON KANEHIRAI Wilson

Col. No. 1533. Near public school, Kanko, Taipei County. Elevation 400 m. Similar to *Rhododendron indicum*.

325027. RHODODENDRON KAWAKAMII Hayata

Col. No. 1522. Mt. Alishan, on trunk of dead conifer. Elevation 2,200 m. Epiphytic rhododendron; flowers reportedly yellow.

325028. RHODODENDRON LASIOSTYLUM Hayata

Col. No. 1596. At Sun-moon Lake on cliffsides above road. Evergreen shrub, low; flowers white or pale pink, in clusters of 2 to 3.

325029 to 324034. RHODODENDRON MORII Hayata

325029. Col. No. 1461. In small garden of cultivated species native to Alishan. Elevation 2,287 m.

325030. Col. No. 1485. In shady areas among conifers on Rulin-shan, Morrison Range. Elevation 2,600 m.

325031. Col. No. 1486. Along path in shade of conifers on Rulin-shan, Morrison Range. Elevation 2,600 m.

325032. Col. No. 1555. Open grassy meadow, above tree line at Mt. Hohuan. Elevation 3,200 m. Plant small, spreading; dense habit.

325033. Col. No. 1565. Open grassland on Mt. Hohuan. Elevation 3,300 m. Plant very compact; leaves small; dense habit.

325034. Col. No. 1566. Open alpine meadow, Mt. Hohuan. Elevation 3,100 m. Plant compact, dense; flowers white.

325035. RHODODENDRON NAKAHARAI Hayata

Col. No. 1458. Near sulfur spring in Mt. Tatung, Taipeh. Elevation 600 m. Small, almost prostrate azalea; flowers scarlet, funnel form.

325036 to 325039. RHODODENDRON OLDHAMII Maxim.

325036. Col. No. 1457. Along roadside on Mt. Tatung, Taipeh. Elevation 800 m. Azalea; branches upright, covered with dense hairs.

325037. Col. No. 1459. Open meadow on Mt. Tatung, Taipeh. Elevation 700 m. Azalea; branches upright, covered with hairs.

324940 to 325078—Continued

325036 to 325039—Continued

325038. Col. No. 1537. Growing on cliffs along mountain road. Wushi on road to Sun-moon Lake.

325039. Col. No. 1571. Along roadside between Lishan and Hohuan. Elevation 2,200 m. Stems lack usual hairiness of *R. oldhamii*; flowers not seen.

325040. RHODODENDRON OVATUM (Lindl.) Planch.

Col. No. 1580. At Cha-bao-ti, a logging station, below Lishan. Elevation 1,000 m. Evergreen shrub; flowers solitary, pink.

325041. RHODODENDRON PSEUDOCHRYSANTHUM Hayata

Col. No. 1520. From top of Mt. Morrison. Elevation 3,998 m.

325042 to 325049. RHODODENDRON RUBROPILOSUM Hayata

325042. Col. No. 1465. Along mountain path on Mt. Tsu-shan. Elevation 2,300 m.

325043. Col. No. 1466. On Tsu-shan. Sandstone mountain. Elevation 2,400 m.

325044. Col. No. 1473. Along path, sandstone area, on Tsu-shan. Elevation 2,350 m.

325045. Col. No. 1489. On Rulin-shan, open meadows mixed with *Pieris*. Elevation 2,600 m.

325046. Col. No. 1496. On path to Mt. Morrison, rocky area. Elevation 3,100 m. Azalea; flowers pink.

325047. Col. No. 1509. Along trail, Mt. Morrison. Elevation 3,500 m.

325048. Col. No. 1541. Growing at edge of pasture, above Wushi.

325049. Col. No. 1564. Open grassland at Hohuan, scattered through hillsides. Elevation 3,100 m. Plants very compact, probably due to high elevation.

325050 to 325055. RHODODENDRON PSEUDOCHRYSANTHUM Hayata

325050. Col. No. 1501. On Mt. Morrison. Elevation 3,950 m.

325051. Col. No. 1502. On Mt. Morrison. Elevation 3,960 m.

325052. Col. No. 1503. On Mt. Morrison. Elevation 3,970 m.

325053. Col. No. 1505. On Mt. Morrison, open loose shale. Elevation 3,970 m.

325054. Col. No. 1506. On Mt. Morrison, below top of mountain in loose shale. Elevation 3,980 m.

325055. Col. No. 1507. On Mt. Morrison, open loose shale. Elevation 3,980 m.

325056. ROSA sp. Rosaceae.

Col. No. 1517. Sunny places along trail to Mt. Morrison. Elevation 3,000 m.

325057. ROSA sp. Rosaceae.

Col. No. 1547. Along track to Mt. Hohuan, open meadow. Elevation 2,500 m.

325058. RUBIA AKANE Nakai Rubiaceae.

Col. No. 1515. On Mt. Morrison. Single plant growing among barberries. Elevation 3,000 m.

325059. RUBUS FORMOSENSIS O. Kuntze Rosaceae.

Col. No. 1514. Usually scrambling over plants in moist areas, sunny localities. Elevation 3,100 m.

324940 to 325078—Continued

325060. *SAGERETIA RANDAIENSIS* Hayata Rhamnaceae.

Col. No. 1529. Along path, shaded places near Kanko. Elevation 4,100 m. Evergreen shrub, rare; flowers in terminal panicle.

325061. *SARCANDRA GLABRA* (Thunb.) Nakai Chloranthaceae.

Col. No. 1535. Shady areas along path to Kanko. Sub-shrub, evergreen; fruit bright orange.

325062. *SHIZANDRA CHINENSIS* (Turcz.) H. Baill. Magnoliaceae.

Col. No. 1544. In evergreen forest, scrambling over trees, above Sunkan. Elevation 2,200 m.

325063. *SKIMMIA REEVESIANA* Fortune. Rutaceae.

Col. No. 1478. On path to Tsu-shan. Elevation 2,400 m. Growing as an epiphyte, evergreen; fruit red in terminal clusters.

325064. *SPIRAEA* sp. Rosaceae.

Col. No. 1480. On Tsu-shan, Ali-shan. Elevation 2,400 m. Shrub, small.

325065 to 325067. *STRANVAESIA NIITAKAYAMENSIS* (Hayata) Hayata Rosaceae.

325065. Col. No. 1467. On Tsu-shan, growing along path among azaleas. Elevation 2,400 m.

325066. Col. No. 1474. Ta-shan, along road to mountain top. Elevation 2,300 m.

325067. Col. No. 1552. Along mountain road above Sunkan, open sunny place. Elevation 2,600 m.

325068. *STYRAX FORMOSANA* Matsum. Styracaceae.

Col. No. 1598. Sun-moon Lake. Elevation 1,000 m. Tree deciduous, straggly; flowers white, pendulous; seeds ripe.

325069. *STYRAX SUBERIFOLIA* Hook. & Arn.

Col. No. 1597. Sun-moon Lake, Nantou County. Shrub, deciduous, at edge of evergreen forest.

325070 and 325071. *TAIWANIA CRYPTOMERIOIDES* Hayata Pinaceae.

325070. Col. No. 1603. Chi-to Forestry Station. Elevation 1,500 m. Endemic conifer; rare.

325071. Col. No. 1604. Chi-to Forestry Station, Taichung. Elevation 1,500 m.

325072. *TSUGA CHINENSIS* (Franch.) Pritz. Pinaceae.

Col. No. 1487. On Rulin-shan, Morrison Range, as a dominant species. Elevation 2,600 m.

325073. *TUTCHERIA SHINKOENSIS* (Hayata) Nakai Theaceae.

Col. No. 1586. At Lin-hua-chi in evergreen forest. Elevation 1,200 m. Tree, evergreen, small; fruit spherical, splitting lengthwise; seeds attached to persistent column.

325074. *VACCINIUM EMARGINATUM* Hayata Ericaceae.

Col. No. 1546. Along road to Mt. Hohuan, temperate rain forest, above Sun-shi. Elevation 2,400 m.

325075. *VACCINIUM* sp.

Col. No. 1512. Shady moist areas on trail to Mt. Morrison. Elevation 3,200 m.

324940 to 325078—Continued

325076 and 325077. *VIBURNUM LUZONICUM* Rolfe Caprifoliaceae.

325076. Col. No. 1563. In evergreen forest below Lishan. Elevation 2,200 m. Evergreen shrub, to 3 m. high; fruit in cyme, red.

325077. Col. No. 1567. Above Lishan, along mountain road. Elevation 2,600 m. Deciduous shrub; fruit in terminal, nodding clusters, red.

325078. *VIBURNUM LUZONICUM* var. *FORMOSANUM* (Hance) Rehd. in Sarg.

Col. No. 1594. At Sun-moon Lake. Elevation 1,200 m. Deciduous shrub; fruit in terminal clusters, red.

325079 to 325084. ARACHIS HYPOGAEA L. Leguminosae.

From Nigeria. Seeds presented by C. Harkness, Institute for Agricultural Research, Samaru, Zaria. Received Jan. 24, 1968.

325079. A 62. Nigerian local from Zaria area. Large seeded.

325080. A 63. Nigerian local from Zaria area. Large seeded.

325081. A 64. Selected at Sokoto Government Farm, Kassarawa. Runner, seed 3 per pod, white; very poor yield.

325082. A 65. Leko district, Ganye Native Authority, Sardauna Province. Runner, leaves broad, typical; seed large.

325083. VE 6512. Local Spanish type. Deep pod constrictions; early.

325084. XBU 595. Bulk selection of local spreading bunch type used as male parent for growth characteristics.

325085 to 325092.

From Denmark. Seeds presented by L. Weisberg, Hortus Leonis, pr. Hvalso. Received Jan. 22, 1968.

325085. *ALLIUM AFLATUNENSE* B. Fedtsch. Liliaceae.

325086. *ALLIUM ALBOPILOSUM* C. H. Wright

325087. *ALLIUM FLAVUM* var. *PULCHELLUM* (Don) Regel

325088. *ALLIUM KARATAVIENSE* Regel

325089. *ALLIUM MOLY* L.

325090. *ALLIUM ROSENBACHIANUM* Regel

325091. *ALLIUM SCHOENOPRASUM* L.

Chive.

325092. *ALLIUM URSINUM* L.

325093 to 325105.

From the Republic of South Africa. Seeds presented by H. B. Rycroft, National Botanic Gardens, Kirstenbosch, Newlands, Cape thru Plant Introduction Officer, Department of Agricultural Technical Services, Pretoria. Received Jan. 22, 1968.

325093. *GLADIOLUS ALATUS* L. Iridaceae.

325094. *GLADIOLUS BLANDUS* Ait.

325095. *GLADIOLUS CARDINALIS* Curtis

325096. *GLADIOLUS GRACILIS* Jacq.

325097. *GLADIOLUS INVOLUTUS* DelaRoche

325098. *GLADIOLUS MACOWANII* Baker

325099. *GLADIOLUS ORCHIDIFLORUS* Andr.

325100. *GLADIOLUS PERMEABILIS* Delar.

325101. *GLADIOLUS PRAELONGITUBUS* A. J. Lewis

325093 to 325105—Continued325102. *GLADIOLUS PSITTACINUS* var. *COOPERI* Baker325103. *GLADIOLUS RECURVUS* L.325104. *GLADIOLUS VAGINATUS* F. Bolus325105. *GLADIOLUS VENUSTUS* G. J. Lewis**325106. TRITICUM AESTIVUM** L. Gramineae. **Common wheat.**

From Hungary. Seeds presented by the National Institute of Agrobotany, Tapioszele. Received Jan. 22, 1968.

'Ban Kuti 1201'.

325107 to 325111. GOSSYPIUM HIRSUTUM L. Malvaceae.
Upland cotton.

From Brazil. Seeds presented by Division of Plant Introduction, Instituto Agronomico, Campinas, Sao Paulo. Received Jan. 24, 1968.

325107. I.A.C. RM. 3.

325108. I.A.C. RM. 4.

325109. I.A.C. 12-2.

325110. I.A.C. 13.

325111. I.A.C. 13 4/44.

325112 and 325113. BRASSICA OLERACEA var. *CAPITATA* L. Cruciferae.
Cabbage.

From Wales. Seeds presented by Q.O.N. Kay, Department of Botany, University College of Swansea, Swansea. Received Jan. 24, 1968.

Limestone seacliffs near Llandudno. Elevation 300 feet. Native.

325112. Plant 1. Wild.

325113. Plant 2. Wild.

325114 to 325125. GLYCINE WIGHTII (R. Grah. ex Wight & Arn.)
Verdcourt Leguminosae.

From Tanzania. Seeds grown in 1966 and presented by Northern Research Centre Tengeru, Atusha. Received Jan. 24, 1968.

325114. UK 674. (KN/64181). From Masailand, (Kisongo).

325115. UK 675. (KN/56166). From Kitale, Kenya.

325116. UK 676. (T463). From Kongwa.

325117. UK 678. From Ukiriguru near Mwanza.

325118. UK 679. From Ukiriguru near Mwanza.

325119. UK 6647. (K609). From Rhodesia. Origin Kitale, Kenya.

325120. UK 6655. (T9764). From Bunka Estates near Atusha. Origin Tengeru.

325121. UK 6657. (T5564). From Tengeru, Northern Research Center near Atusha.

325122. UK 6659. (T1165). From Masama, Moshi.

325123. UK 6661. (7564). From Sisal Research Station, Ngomeni, near Tanga.

325124. UK 6695. From Serere Research Station. Local origin.

325125. UK 66104. Kongwa Ranch, Kongwa.

325126 to 325131.

From India. Seeds presented by C. L. Madan, Regional Research Laboratory, Jammu and Kashmir. Received Jan. 24, 1968.

325126 to 325131—Continued

325126. *DATURA METEL* var. *FASTUOSA* (L.) Safford Solanaceae.
 325127. *DATURA QUERCIFOLIA* HBK. Oakleaf datura.
 325128. *DATURA STRAMONIUM* var. *CHALYBEA* Koch.
 325129. *DATURA STRAMONIUM* var. *GORDONII* DANERT Danert
 325130. *DATURA STRAMONIUM* var. *TATULA* (L.) Torr.
 325131. *DATURA WRIGHTII* Regel

325132. *PRUNUS PERSICA* (L.) Batsch Rosaceae. Peach.

From Maryland. Scions presented by J. S. Hamilton, 8510 Landover Road, Landover. Received Jan. 24, 1968.

'Michael Gold'.

325133 to 325155.

From the United States. Seeds grown at Regional Plant Introduction Station, Iowa State University, Ames, Iowa. Numbered Jan. 29, 1968.

325133. *CUCURBITA MAXIMA* Duchesne Cucurbitaceae. Squash.

Col. No. A-1108. 'Gold Nugget'. ('Tapley's Bush' × 'Banquet') × 'Banquet'. Developed by N. S. Holland, Department of Horticulture, North Dakota State University. Bush with short internodes. Fruit round oblate, 590 gms.; shell hard, red orange; flesh dark gold orange, fine texture, no fiber, dense, 3 cm. thick; early; 8 per plant.

325134 to 325155. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

Originally from G. A. Kemp, Canada Agricultural Research Station, Lethbridge, Alberta, Canada.

325134. Col. No. A-685. 'Early Lethbridge'. Vine determinate, medium small, early. Fruit medium set, globe, 4 to 6 cm. diameter; flesh red; skin yellow; nonfasciated.

325135. Col. No. A-686. 'Earlicrop'. Vine determinate, medium small, medium early. Fruit medium set, oblate, 5 to 8 cm. diameter; flesh red; skin yellow; slightly fasciated.

Originally from Louis Cry, Provincial Horticultural Station, Brooks, Alberta, Canada.

325136. Col. No. A-690. 'Red Bobs'. Selection from sixth generation Alred × Cloche Wonder. Vine determinate, medium small, medium early. Fruit medium set, oblate; 5 to 7 cm. diameter; flesh red; skin yellow; medium fasciated; crack free.

325137. Col. No. A-691. 'Globetrotter'. Selection from sixth generation Alred × Cloche Wonder. Vine determinate, medium small, medium early. Fruit medium set, oblate, 5 to 8 cm. diameter; flesh red; skin yellow; slight fasciation, crack free.

Originally from Leningrad Plant Introduction Institute, Soviet Union, through L. H. Lyallf Canada Agricultural Research Station, Ottawa.

325138. Col. No. A-1019. Selection from 'Krasnjdar 590'. Vine indeterminate, medium small, medium maturity. Fruit medium set, oblate, 6 to 8 cm. diameter; flesh red; skin yellow; slight fasciation, medium cracking.

325139. Col. No. A-1020. Selection from 'Sovetskij 679'. Vine indeterminate, medium size, medium early maturity. Fruit oblate, 6 to 10 cm. diameter, red; skin yellow; slight fasciation, slight cracking.

325140. Col. No. A-1021. Selection from 'Rybka 52'. Vine indeterminate, medium small, medium late. Fruit ovate, 7 by 4.5 cm., flesh red; skin yellow; slight fasciation, no cracking.

325133 to 325155—Continued

325134 to 325155—Continued

325141. Col. No. A-1022. Selection from 'Percerskij 278'. Vine indeterminate, medium large, medium maturity. Fruit oblate, 6 to 9 cm. diameter, flesh red; skin yellow; slight fasciation, medium radial cracks.
325142. Col. No. A-1023. Selection from 'Rannij Visserskij 1880'. Vine indeterminate, medium size, medium maturity. Fruit 5 to 9 cm. diameter, oblate; flesh red; skin yellow; much fasciation, medium concentric and radial cracks.
325143. Col. No. A-1024. Selection from 'Harbarovskij 131'. Vine indeterminate, medium size, medium maturity. Fruit ovate, 6 by 4.5 cm.; flesh red; skin yellow; no fasciation, slight cracking.
325144. Col. No. A-1025. Selection from 'Ahtabenskij 85'. Vine indeterminate, medium size, medium maturity. Fruit globe, 7 to 10 cm. diameter; flesh red; skin yellow; light set; slight fasciation, slight cracking.
325145. Col. No. A-1027. Selection from 'Novcerkasskij 416'. Vine indeterminate, medium size, medium maturity. Fruit oblate, 7 to 10 cm. diameter; flesh red; skin yellow; medium fasciation, medium cracking.
325146. Col. No. A-1114. 'Young'. From Texas. Vine indeterminate, large, medium maturity. Fruit globe, 7 to 10 cm. diameter; flesh red; crack resistant, early. Immune to *Fusarium* wilt.
325147. Col. No. 6158. 'Centennial'. From West Virginia. Vine indeterminate, large medium late maturity. Fruit medium set, globe 6 to 10 cm.; flesh red; skin yellow; slight fasciation, radial cracking.
- From Cheyenne Horticultural Field Station, Wyoming.
325148. Col. No. A-1119. 'Cereza'. Vine indeterminate, medium size, medium maturity. Fruit medium heavy set, globe, 2.5 cm.; flesh red; skin yellow; no fasciation or cracks.
325149. Col. No. A-1120. 'Cisco'. Vine indeterminate, medium small, medium maturity. Fruit light medium set, globe, 5.5 cm.; flesh red; skin yellow; no fasciation, medium severe concentric, slight radial cracking.
325150. Col. No. A-1121. 'Fargo Self-pruning'. Vine indeterminate, medium small, medium early maturity. Fruit medium set, globe, 5 to 8 cm.; flesh red; skin yellow; slight fasciation, medium concentric and radial cracking.
325151. Col. No. A-1122. 'Friestate'. Vine indeterminate, medium size, medium maturity. Fruit light-medium set, 5 to 9 cm.; flesh red; skin yellow; slight fasciation, medium cracking.
325152. Col. No. A-1123. 'Garland'. Vine indeterminate, medium size, medium late. Fruit light-medium set, globe, 5 to 8.5 cm.; flesh red; skin yellow; slight fasciation, medium cracking.
325153. Col. No. A-1124. 'La Victorede Derg'. Vine indeterminate, medium small, medium maturity. Fruit globe, 5 to 7 cm.; flesh red; skin yellow; slight fasciation, medium concentric, radial cracking.
325154. Col. No. A-1126. 'Uberreich'. Vine indeterminate, medium small, medium maturity. Fruit globe, 4.5 to 6 cm.; flesh red; skin yellow; no fasciation, medium concentric, slight radial cracking.
325155. Col. No. A-1127. 'Ventura'. Vine indeterminate, medium small, medium maturity. Fruit medium set, oblate, 6 to 8 cm.; flesh red; skin yellow; slight fasciation, medium cracking.

325156. MALUS SIEBOLDII (Regel) Rehd. Rosaceae. Toringo crabapple.

From the United States. Tree growing at the United States Plant Introduction Station, Glenn Dale. Numbered Jan. 31, 1968.

B-35644. 'Fuji'. Semidouble-flowered form.

325157 to 325159.

From Venezuela. Plants collected by D. H. Timothy, University of North Carolina, Raleigh, North Carolina. Received Jan. 30, 1968.

325157. TRIPSACUM sp. Gramineae.

Col. No. 211. Monagas. In banana patch by road from Caripe to San Augustine, 15 km. from Caripe in view of hotel Guachero. Elevation 1,200 m.

325158. TRIPSACUM sp. Gramineae.

Col. No. 212. Monagas. In coffee planting, 12 km. from San Francisco to El Guachero. Elevation 1,025 m.

325159. TRIPSACUM sp. Gramineae.

Col. No. 227. Local name, Verba Gordona. Berecajal, Sucre.

325160 and 325161. VITIS VINIFERA L. Vitaceae. European grape.

From Germany. Cuttings presented by the Biologische Bundesanstalt für Land-und Forstwirtschaft, Institut für Rebenkrankheiten, Bernkastel-Kues/Mosel. Received Feb. 1, 1968.

325160. 'Pinot noir'. Clone Gs. 3/67 - Z 68.

325161. 'Pinot noir'. Clone Gs. 3/67 - Z 65.

325162 to 325173. VACCINIUM × INTERMEDIUM Ruthe Ericaceae.

From England. Cuttings presented by the University of Keele, Keele, Staffordshire. Received Feb. 1, 1968.

Camp Hill, Maer, Staffordshire.

325162. 58/84.

325163. 66/59. Clone 1.

325164. 67/31. Clone 3.

325165. 67/31. Clone 7.

325166. 67/31. Clone 8.

325167. 67/31. Clone 9.

325168. 67/31. Clone 10.

325169. 67/31. Clone 11.

Swineholes Wood, Ipstones, Staffordshire.

325170. 63/39. Clone 4.

Oakamoor Starwood, Staffordshire.

325171. 64/65. Clone A.

325172. 64/65. Clone C.

Cannock Chase, Staffordshire.

325173. 64/69. Clone 1.

325174. CASSIA TOMENTOSA L. f. Leguminosae. Woolly senna.

From Mexico. Seeds presented by Francisco Juarez Lopez, Jardin Botanico, Ciudad Universitaria, Mexico, D. F. Received Feb. 2, 1968.

Collected at Pedregal de San Angel, southwest of Mexico, D. F.

325175. PRUNUS PERSICA (L.) Batsch Rosaceae. Peach.

From Kenya. Seeds purchased by R. E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Feb. 2, 1968.

Col. No. 9519. From Nairobi market. Originally from farm of Dr. Spears, Limuru, and Mrs. Morson, Kiambu. Purchased Jan. 22, 1968.

325176 and 325177. MALUS SYLVESTRIS Mill. Rosaceae. Apple.

From Canada. Plants presented by the Horticulture Division, Central Experimental Farm, Ottawa. Received Feb. 6, 1968.

325176. 'Ottawa 3'.

325177. 'Ottawa 12'.

325178 to 325526.

From the Union of Soviet Socialist Republics. Seeds collected by Willis H. Skrdla, agricultural explorer, Crops Research Division, Regional Plant Introduction Station, Ames, Iowa. Numbered Feb. 2, 1968.

325178. ACER CAMPESTRE L. Aceraceae. Maple.

Col. No. S-319. Stavropol region. Collective farm near Bekeshevskaya village. Low area near stream. Branches small; bark ridged, similar to *Euonymus* × *alatus*.

325179. ACONITUM sp. Ranunculaceae.

Col. No. S-206. Stavropol region. Above Teberda village on top of Mt. Hatipara, south slope. Elevation 2,166 m. Seed from several plants.

325180. AGROPYRON CRISTATUM (L.) Gaertn. Gramineae. Crested wheatgrass.

Col. No. S-83. Stavropol region. High ridge on rocky limestone soil, south of Stavropol.

325181. AGROPYRON GRACILLIMUM Nevski

Col. No. S-256. Stavropol region. Wild material from plots at Stavropol Botanic Garden.

325182. AGROPYRON IMBRICATUM (Bieb.) Roem. & Schult.

Col. No. S-261. Stavropol Botanic Garden. Southern Bessarabia.

325183. AGROPYRON INTERMEDIUM (Host) Beauv. Intermediate wheatgrass.

Col. No. S-349. Stavropol region. Top of Mt. Mashuk above forest. Elevation 915 m. Seed from several plants. Leaf height 80 to 85 cm. Seed stalks to 1.5 m. high. Inflorescence 16 to 25 cm.

325184. AGROPYRON LAVRENKOANUM Prokudin

Col. No. S-258. Stavropol Botanic Garden. From near Stavropol, town of Svetlograd.

325185 to 325187. AGROPYRON PECTINIFORME Roem. & Schult.

325185. Col. No. S-51. Askaniya Nova, southern Ukraine. From Reserve Stepp area.

325186. Col. No. S-257. Stavropol Botanic Garden. Originally from town of Mineral Waters.

325187. Col. No. S-262. Stavropol Botanic. From near Skefresesk.

325188. AGROPYRON PINIFOLIUM Nevski

Col. No. S-260. Stavropol Botanic Garden. From near Novorossiisk.

325189. AGROPYRON SIBIRICUM (Willd.) Beauv. Siberian wheatgrass.

Col. No. S-259. Stavropol Botanic Garden. From near Stavropol, about 32 km.

325178 to 325526—Continued

325190. *AGROPYRON TRICHOPHORUM* (Link) Richt. **Stiffhair wheatgrass.**
Col. No. S-84. South of Stavropol, edge of a steppe, near woods.
325191. *AGROPYRON* sp.
Col. No. S-326. Stavropol region. About 3 km southeast of Kislovodsk, on high, dry knoll. Seed from several plants.
325192. *AGROSTIS CAPILLARIS* L. Gramineae. **Rhode Island bentgrass.**
Col. No. S-190. Stavropol region. Above Teberda village on top of Mt. Hatipara, open meadow. Elevation 1,860 m. Seed from several plants.
325193. *AGROSTIS* sp.
Col. No. S-90. Stavropol region. On steppe near edge of forest, south of Stavropol.
325194. *AGROSTIS* sp.
Col. No. S-157. Stavropol region. South of Elycha in rocky range, edge of forest along narrow mountain road. Elevation 1,068 m.
325195. *ALOPECURUS PRATENSIS* L. Gramineae. **Meadow foxtail.**
Col. No. S-50. Askaniya Nova, southern Ukraine. Reserve Steppe area.
325196. *ALOPECURUS SERICEUS* Gaert.
Col. No. S-208. Stavropol region. Near Klukhor Lake, on south slope. Elevation 2,288 m. Seed from several plants. Prevalent in area; grows well in rocks.
- 325197 to 325201. *AMARANTHUS RETROFLEXUS* L. Amaranthaceae. **Rough pigweed.**
325197. Col. No. S-55. Ukraine. In area of Melitopol Fruit Station No. 3. Seed from several plants.
325198. Col. No. S-56. Ukraine. In area of Melitopol Fruit Station No. 3. Seed from several plants.
325199. Col. No. S-57. Ukraine. In area of Melitopol Fruit Station No. 3. Seed from single plant. Head pinkish.
325200. Col. No. S-64. Stavropol region. Sixteen km. northwest of Stavropol.
325201. Col. No. S-343. Stavropol region. Thirteen km. east of Pyatigorsk on edge of cornfield. Plants to 1 m. high; heads reddish; stems with pronounced red stripes.
325202. *ANTHYLLIS VULNERARIA* L. var. *POLYPHYLLA* D.C. Leguminosae.
Col. No. S-255. Stavropol region. Along roadside about 10 km. north of Teberda Reservation. Seed from several plants.
325203. *ARRHENATHERUM ELATIUS* (L.) Presl. Gramineae. **Tall oatgrass.**
Col. No. S-293. 'Krasnodarsky 137'. Stavropol Botanic Garden.
325204. *ASPARAGUS OFFICINALIS* L. Liliaceae. **Garden asparagus:**
Col. No. S-77. Stavropol region. In ravine 19 km. south of Stavropol.
325205. *ASTRAGALUS CICER* L. Leguminosae.
Col. No. S-330. Stavropol region. Three and two tenths km. southeast of Kislovodsk on steep north slope in tall grasses and legumes. Elevation 732 m. Plants large.
325206. *ASTRAGALUS GLYCYPHYLLOIDES* D.C.
Col. No. S-25. Crimea. Open woods 16 km. south of Simferopol.

325178 to 325526—Continued**325207.** *ASTRAGALUS GLYCYPHYLLUS* L.

Col. No. S-24. Crimea. Open woods 16 km. south of Simferopol.

325208. *ASTRAGALUS PONTICUS* Pall.

Col. No. S-33. Crimea. Rocky slope, 64 km. west of Yalta. Elevation 275 m. Plants 70 to 80 cm. high; flowers bright yellow.

325209. *ASTRAGALUS* sp.

Col. No. S-327. Stavropol region. Three km. southeast of Kislovodsk, on steep north slope. Elevation 732 m. Seed from single plant. Plant to 2 m. high, vigorous; thick stem, large.

325210. *AVENA SATIVA* L. Gramineae.

Common oats.

Col. No. S-305. 'Artemovski'. Donated by Stavropol Institute for Agricultural Research. From experimental field. Reported resistant to cereal leaf beetle.

325211 and 325212. *BOTHRIOCHLOA ISCHAEMUM* (L.) Keng Gramineae.

King's Ranch bluestem.

325211. Col. No. S-30. Crimea. Rocky slopes above Foros. Elevation 732 to 915 m. Plants 10 to 30 cm. high, bunch type.**325212.** Col. No. S-69. Stavropol region. Northeast of Novo Marioska. Elevation 458 m. Secondary or introduced grass. Forms dense sod cover under grazing conditions. Seed heads 45 to 50 cm. high.**325213 to 325217.** *BRACHYPODIUM PINNATUM* (L.) Beauv. Gramineae.

Japanese falsebrome grass.

325213. Col. No. S-80. Stavropol region. Nineteen km. south of Stavropol on hillside.**325214.** Col. No. S-135. Stavropol region. South of Elycha in rocky range. Elevation 915 m. Seed from single plant. Leaf height 35 to 40 cm.; seed stalk 80 to 85 cm. high.**325215.** Col. No. S-294. Stavropol Botanic Garden. From Cossack village of Ispravnyaya.**325216.** Col. No. S-337. Stavropol region. Three km. southeast of Kislovodsk, on north slope. Elevation 732 m. Leaves 45 to 50 cm. Dominant grass in area.**325217.** Col. No. S-348. Stavropol region. Top of Mt. Mashuk just above forest. Elevation 915 m. Seed from single plant. Leaves 40 to 50 cm. high.**325218.** *BRACHYPODIUM SYLVATICUM* (Huds.) Beauv. Falsebrome grass.

Col. No. S-218. Stavropol region. Near northern orphanage on Klukhov River. Elevation 1,556 m. Seed from several plants. Leaves 25 to 35 cm. high; 6 to 7 mm. wide.

325219. *BRACHYPODIUM* sp.

Col. No. S-107. Stavropol region. Thrifty grass cover in orchard in partial shade, northeast slope of mountain.

325220. *BRASSICA KABER* (DC.) Wheeler Cruciferae.

Charlock.

Col. No. S-318. Stavropol region. Collected on collective farm near Bekeshevskaya village. Elevation 550 m. Seed from several plants.

325221. *BRIZA ELATIOR* J. E. Sm. Gramineae.

Col. No. S-89. Stavropol region. On steppe near edge of forest south of Stavropol.

325222. *BRIZA MARKOWICZII* Woronow

Col. No. S-192. Stavropol region. Above Teberda Village on top of Mt. Hatipara, open meadow. Elevation 1,861 m.

325178 to 325526—Continued

- 325223 to 325225. BRIZA MEDIA L. **Quaking grass.**
 325223. Col. No. S-163. Stavropol region. South of Elycha in rocky range. Elevation 105 m. Seed from many plants.
 325224. Col. No. S-187. Stavropol region. Above Teberda village on top of Mt. Hatipara, open meadow. Elevation 1,830 m. Seed from several plants.
 325225. Col. No. S-214. Stavropol region. Near northern orphanage on Klukhov River. Elevation 1,530 m. Seed from many plants.
325226. BROMUS BIEBERSTEINII Roem. & Schult. Gramineae.
 Col. No. S-295. Stavropol Botanic Garden. From Mt. Verblud (Carmel).
325227. BROMUS INERMIS Leyss. **Smooth brome.**
 Col. No. S-48. Askaniya Nova Reserve. Steppe area.
325228. BROMUS RIPARIUS Rehm.
 Col. No. S-88. Stavropol region. On steppe near edge of forest, south of Stavropol.
325229. BROMUS INERMIS Leyss. **Smooth brome.**
 Col. No. S-347. Stavropol region. On top of Mt. Mashuk, just above forest. Elevation 900 m. Seed from several plants. Plants to 0.5 m. high.
325230. BROMUS INERMIS Leyss. **Smooth brome.**
 Col. No. S-75. Stavropol region. In ravine 19 km. south of Stavropol.
- 325231 to 325236. BROMUS RIPARIUS Rehm.
 325231. Col. No. S-87. Stavropol region. On steppe near woods, south of Stavropol.
 325232. Col. No. S-165. Stavropol region. South of Elycha in rocky range, in open meadow. Elevation 990 m. Seed from several plants. Seed stalks 1.0 to 1.5 m. high.
 325233. Col. No. S-184. Stavropol region. Above Teberda village on top of Mt. Hatipara, in open meadow. Elevation 1,830 m. Seed from several plants.
 325234. Col. No. S-200. Stavropol region. Above Teberda village on top of Mt. Hatipara, south slope. Elevation 2,130 m. Seed from several plants.
 325235. Col. No. S-245. Stavropol region. Along road, near Goralkol River. Elevation 1,260 m. Seed from many plants. Plants tall, seed 1.5 to 2.0 m.
 325236. Col. No. S-249. Stavropol region. Hillside, 8 km. north of Teberda reservation near main road. Seed from several plants.
325237. BROMUS INERMIS Leyss. **Smooth brome.**
 Col. No. S-114. Stavropol region. Open meadow, near Mt. Strizhament, south of Stavropol. Elevation 560 m. Seed from many plants.
325238. BROMUS sp.
 Col. No. S-117. Stavropol region. On virgin steppe area on top of Mt. Strizhament. Elevation 720 m.
- 325239 and 325240. CALAMAGROSTIS ARUNDINACEA (L.) Roth Gramineae.
 325239. Col. No. S-161. Stavropol region. South of Elycha in rocky range, open meadow. Elevation 1,050 m. Leaves 66 to 70 cm. high; seed stalks to 1.5 m. high.
 325240. Col. No. S-219. Stavropol region. Near northern orphanage of Klukhov River. South slope. Elevation 1,530 m. Leaves 50 to 55 cm. by 1.0 cm., stalks 1.25 m., bunch, vigorous.

325178 to 325526—Continued

325241 to 325244. *CALAMAGROSTIS EPIGEIOS* (L.) Roth

325241. Col. No. S-79. Stavropol region. In ravine, 19 km. south of Stavropol.

325242. Col. No. S-136. Stavropol region. South of Elycha in rocky range. Elevation 915 m. Mountain species. Leaf height 70 to 75 cm., seed stalk 1.5 m. high.

325243. Col. No. S-166. Stavropol region. South of Elycha, in open meadow. Elevation 990 m. Leaf height 1 m.; seed stalks to 1.5 m. high.

325244. Col. No. S-211. Stavropol region. Near northern orphanage on Klukhov River. Elevation 1,530 m. Seed from many plants; forms good sod.

325245 and 325246. *CALAMAGROSTIS PSEUDOPHRAGMITES* (Hall. f.) Koel.

325245. Col. No. S-212. Stavropol region. Near northern orphanage on Klukhov River. Elevation 1,530 m. Seed from many plants, forms good sod.

325246. Col. No. S-213. Stavropol region. Near northern orphanage on Klukhov River, along roadside. Elevation 1,530 m.

325247. *CALAMAGROSTIS* sp.

Col. No. S-325. Stavropol region. Three km. southeast of Kislovodsk, near road. Elevation 720 m. Seed from many plants. Leaf height, 60 to 70 cm., coarse.

325248. *CITRULLUS LANATUS* (Thunb.) Mansf. Cucurbitaceae.

Watermelon.

Col. No. S-121. Stavropol region. Purchased at market. Local variety. Round, 25 cm. diameter; skin green; flesh reddish pink, sweet.

325249. *CLEMATIS TANGUTICA* (Maxim.) Korsh. Ranunculaceae.

Golden clematis.

Col. No. S-296. Stavropol Botanic Garden. Flowers yellow; seeds large, white, cottonlike ball.

325250. *CORNUS ALBA* L. Cornaceae.

Tatarian dogwood.

Col. No. S-44. Askaniya Nova Botanic Garden, southern Ukraine steppe area. From northern Siberia. To 4 m. high, bushy.

325251. *CORNUS BRETSCHEIDERI* J. Henry

Dogwood.

Col. No. S-45. Askaniya Nova Botanic Garden, southern Ukraine steppe area. From northern China.

325252. *CORNUS MAS* L.

Cornelian-cherry.

Col. No. S-66. Stavropol region. Sixteen km. northwest of Stavropol. Plant 3.0 to 4.0 m.; fruit 2.0 by 1.3 cm., fleshy.

325253. *CORNUS SANGUINEA* L.

Col. No. S-46. Askaniya Nova Botanic Garden, southern Ukraine steppe area. From Caucasus and Crimea.

325254. *CORNUS WALTERI* Wangerin

Walter dogwood.

Col. No. S-47. Askaniya Nova Botanic Garden, southern Ukraine steppe area. From China. Plants to 1.5 m. high.

325255 to 325266. *CORONILLA VARIA* L. Leguminosae.

Crownvetch.

Crimea. On mountain above Yalta, along roadside. Forest on either side of road. Elevation 560 m.

325255. Col. No. S-9. Plants small; in gravelly soil.

325178 to 325526—Continued

325255 to 325266—Continued

325256. Col. No. S-12. Plants 20 to 30 cm. high.

325257. Col. No. S-59. Stavropol region. Eight km. northwest of Stavropol. Seed from several plants.

325258. Col. No. S-118. Stavropol region. Virgin steppe area on top of Mt. Strizhament. Elevation 720 m.

Stavropol region. South of Elycha in rocky range. Elevation 915 m.

325259. Col. No. S-129. Seed from single plant.

325260. Col. No. S-143.

325261. Col. No. S-148. Seed from several plants.

Stavropol region. Roadside along Goralkol River. Elevation 1,840 m.

325262. Col. No. S-234. Seed from several plants.

325263. Col. No. S-237. Seed from several plants.

325264. Col. No. S-247. Stavropol region. Hillside, 8 km. north of Teberda reservation, near main road. Seed from several plants.

325265. Col. No. S-335. Stavropol region. Three km. southeast of Kislovodsk near road, north slope. Elevation 720 m. Seed from several plants.

325266. Col. No. S-356. Stavropol region. On top of Mt. Razealka. Elevation 780 m. Seed from several plants.

325267. *COTONEASTER DIELSIANA* var. *ELEGANS* Rehd. & Wils. Rosaceae.

Col. No. S-40. Askaniya Nova Botanic Garden, southern Ukraine steppe area. From Western China. Bushy, 1. m. high; fruit 5 mm. in diameter.

325268. *COTONEASTER INTEGERRIMA* Medic. **European cotoneaster.**

Col. No. S-203. Stavropol region. Above Teberda village, on Mt. Hatipara, rocky south slope. Prostrate, 20 to 30 cm.; leaves turn red and purple in autumn; fruit bright red.

325269. *COTONEASTER LUCIDA* Schlecht.

Col. No. S-297. Stavropol Botanic Garden. Ornamental, hedge; to 1 m. high, bushy, leafy.

325270. *COTONEASTER MELANOCARPA* Lodd.

Col. No. S-39. Askaniya Nova Botanic Garden, southern Ukraine steppe area. From southeastern Europe. To 2.5 m. high, leafy, bushy; fruit 8 mm. diameter.

325271. *COTONEASTER MICROPHYLLA* Wall. ex. Lindl. **Rockspray.**

Col. No. S-36. Askaniya Nova Botanic Garden, southern Ukraine steppe area. From Himalayas. To 3.5 m. high; fruit 8 mm. diameter, dark reddish purple; semi-evergreen.

325272. *CRAMBE* (hybrid) Cruciferae.

Col. No. S-265. (*C. pinnatifida* × *C. cordifolia*). Stavropol Botanic Garden. From village of Beskhragir, near Stavropol.

325273. *CRAMBE ASPERA* Bieb.

Col. No. S-267. Stavropol Botanic Garden. From area near village of Beskhragir, near Stavropol.

325274. *CRAMBE JUNCEA* Bieb.

Col. No. S-266. Stavropol Botanic Garden. From area near town of Svetlograd.

325178 to 325526—Continued

325275. CRAMBE ORIENTALIS L.

Col. No. S-264. Stavropol Botanic Garden.

325276. CRAMBE TATARICA Sebeok

Col. No. S-263. Stavropol Botanic Garden. From near Moldavia.

325277. CRAMBE sp.

Col. No. 268. Stavropol Botanic Garden. From Kazakh.

325278. CRATAEGUS sp. Rosaceae.

Col. No. S-65. Stavropol region. Sixteen km. northwest of Stavropol. To 2 m. high. Fruit bright red, in pendulous clusters; flesh thick; seed small. Seed from single plant.

325279. CRATAEGUS sp.

Col. No. S-67. Stavropol region. Sixteen km. northwest of Stavropol. Plant to 4 m. high. Fruit large, purple; seed large.

325280. CRATAEGUS sp.

Col. No. S-71. Stavropol region. Southeastern part of Mt. Butchina opening, northwest of Stavropol. Elevation 360 m. Plant 3 to 4 m. high; fruit bright red.

325281. CUCUMIS MELO L. Cucurbitaceae.

Muskmelon.

Col. No. S-73. Market in Stavropol, probably grown in Karmlih. Flesh thick; flavor good, sweet.

325282 and 325283. CYNODON DACTYLON (L.) Pers. Gramineae.

Bermudagrass.

325282. Col. No. S-103. Stavropol region. Eight km. southeast of Stavropol, dry clay south slope. Elevation 540 m. From several plants, varying leaf size and stem diameter.

325283. Col. No. S-176. Stavropol region. Eighty km. south of Stavropol, in open meadow near road.

325284 to 325307. DACTYLIS GLOMERATA L. Gramineae. Orchardgrass.

325284. Col. No. S-19. Crimea. North slope of Ay-Petry Mountain, north of Yalta. Plants small, seed from many plants.

325285. Col. No. S-81. Stavropol region. Nineteen km. south of Stavropol, side slope.

325286. Col. No. S-91. Stavropol region. Steppe near forest south of Stavropol.

325287. Col. No. S-93. Stavropol region. Northeast slope near forest south of Stavropol. Plants large.

325288. Col. No. S-105. Stavropol region. Shade of forest on mountain along footpath. Elevation 540 m. Plants green, leafy, thrifty.

325289. Col. No. S-108. Stavropol region. In old orchard on northeast slope of Mt. Strizhament. Elevation 570 m. Leaf height 20 to 30 cm.; seed stalks about 1.5 m. high. Seed from several plants.

325290. Col. No. S-112. Stavropol region. Open steppe meadow, southeast of Stavropol; unmowed area. Elevation 540 m. Seed from several plants.

Stavropol Region. South of Elycha in rocky range. Elevation 900 m.

325291. Col. No. S-131. Seed from single plant.

325292. Col. No. S-141. Northwest slope of ravine. Seed stalk 1.5 m. high. Seed from several plants.

325178 to 325526—Continued

325284 to 325307—Continued

325293. Col. No. S-142. Seed from several plants.

325294. Col. No. S-149. Seed from several plants. Plants large, vigorous; leaf height 75 cm. seed stalks to 1.5 m. high.

325295. Col. No. S-162. Seed from many plants. Leaf height 65 to 70 cm.; seed stalks 1.5 m. high.

Stavropol region. Above Teberda village on top of Mt. Hatipara, open meadow. Elevation 1,830 m.

325296. Col. No. S-181. Seed from several plants. Ungrazed area.

325297. Col. No. S-191. Seed from several plants.

325298. Col. No. S-207. Stavropol region. Near Dombay tourist reservation. Elevation 1,440 m. Seed from several plants.

325299. Col. No. S-210. Stavropol region. Near northern orphanage on Klukhov River. Elevation 1,710 m. Seed from many plants.

325300. Col. No. S-221. Stavropol region. Along roadside, near northern orphanage on Klukhov River. Elevation 1,530 m.

325301. Col. No. S-222. Stavropol region. Low, wet area near Gonatshkir River. Elevation 1,440 m. Seed from many plants.

325302. Col. No. S-239. Stavropol area. Steep slope above mineral springs along Goralkol River. Elevation 1,530 m. Seed from many plants. Growing with *Galega* and other tall species.

325303. Col. No. S-241. Stavropol region. Along edge of hayfield near Goralkol River. Elevation 1,350 m. Plants to 50 cm. high; seed stalks 1.0 m. high. Seed from several plants.

Stavropol region. Collective farm near Bekeshevskaya village. Elevation 540 m.

325304. Col. No. S-307. Seed from several plants.

325305. Col. No. S-315. Seed from several plants. Stalks to 1.5 m. high.

325306. Col. No. S-340. Stavropol region. Near road, 32 km. southeast of Kislovodsk. Elevation 720 m. Seed from several plants. Leaf height 30 to 40 cm.

325307. Col. No. S-346. Stavropol region. Top of Mt. Mashuk, edge of forest in partial shade. Elevation 900 m. Seed from several plants.

325308. *DAUCUS CAROTA* L. Umbelliferae. Carrot.

Col. No. S-78. Stavropol region. In ravine, 19 km. south of Stavropol.

325309. *DIANTHUS FRAGRANS* Adams Caryophyllaceae.

Col. No. S-132. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Grows in dry areas on rocky south slopes near top of hills. Seeds from several plants. Flowers white, 3.5 cm. diameter.

325310. *DIANTHUS LEPTOPETALUS* Willd.

Col. No. S-34. Southern Ukraine Steppe at Ashaniya Nova, on reserved steppe area. Flowers small, pink, 10 mm. diameter.

325311 to 325313. *DORYCNIUM INTERMEDIUM* Ledeb. Leguminosae.

325311. Col. No. S-3. Crimea. Along dry, gravelly roadside in Nikitsky Botanic Garden. Elevation 300 m.

325312. Col. No. S-6. Crimea. On mountain above Yalta, along roadside, in limestone soils. Elevation 750 m. Seed from several plants. Plants to 13 cm. high.

325178 to 325526—Continued**325311 to 325313—Continued**

325313. Col. No. S-27. Crimea. Above Bear Mountain near Krasno Komenka on stony, limestone soil. Plants to 60 cm. high; leaves large.

325314. *ECHINOCHLOA CRUGALLI* (L.) Beauv. Gramineae.

Barnyardgrass.

Col. No. S-58. Ukraine. Melitopol. Near Melitopol Fruit Station No. 3. Seed from several plants.

325315. *ELYMUS SIBIRICUS* L. Gramineae.

Wildrye.

Col. No. S-298. Stavropol Botanic Garden. From Siberia, Krasnoyarsk region.

325316 to 325318. *EUONYMUS EUROPAEUS* L. Celastraceae.

European burningbush.

Stavropol region. Edge of forest south of Stavropol. Elevation 540 m.

325316. Col. No. S-95. Seed from single plant. Plant to 2 m. high. Fruit large, pink, in clusters; trunk and stems winged, appearing rectangular.

325317. Col. No. S-96. Seed from single plant. Plant to 2 m. high. Trunk and stem round.

325318. Col. No. S-98. Seed from single plant. Plant to 5 m. high. Stem round; seeds pink.

325319. *EUONYMUS LATIFOLIUS* Mill.

Broadleaf burningbush.

Col. No. S-122. Stavropol region. About 200 km. south of Stavropol, south of Elycha, rocky range near Mt. Baranacha. Elevation 900 m. Stems round; seeds pink with long wings.

325320. *EUONYMUS LAXIFLORUS* Champ. ex Benth.

Col. No. S-134. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from single plant. Seed pink with large wings.

325321. *EUONYMUS VERRUCOSUS* Scopoli

Col. No. S-352. Stavropol region. Brush thicket, north slope of Mt. Razealka, subsurface permafrost. Elevation 840 m. On old moss-covered plant 1.5 m. high. Berries single, not in clusters.

325322 to 325324. *FESTUCA ARUNDINACEA* Schreb. Gramineae.

325322. Col. No. S-74. Stavropol region. On saline beach soil 12 km. south of Stavropol. Leaf height 25 to 30 cm., head height to 50 cm.

325323. Col. No. S-76. Stavropol region. In ravine, 19 km. south of Stavropol.

325324. Col. No. S-113. Stavropol region. Open meadow near Strizhament Mountain, south of Stavropol. Seed from many plants.

325325. *FESTUCA PRATENSIS* Huds.

Meadow fescue.

Col. No. S-164. Stavropol region. Open meadow, south of Elycha in rocky range. Elevation 990 m. Seed from several plants.

325326. *FESTUCA RUBRA* L.

Red fescue.

Col. No. S-193. Stavropol region. Open meadow, above Teberda village on top of Mt. Hatipara. Elevation 2,050 m. Seed from single plant.

325327. *FESTUCA SCLEROPHYLLA* Boiss.

Col. No. S-299. Stavropol Botanic Garden. From village of Ukulan.

325328 and 325329. *FESTUCA SULCATA* (Hack.) Beck

325328. Col. No. S-49. Askaniya Nova, southern Ukraine area. From reserve steppe area.

325178 to 325526—Continued

325328 and 325329—Continued

325329. Col. No. S-139. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from several plants on dry slope, southern exposure. Used in arid areas of Soviet Union.

325330 and 325331. *FESTUCA VARIA* Haenke

Fescue.

325330. Col. No. S-189. Stavropol region. Open meadow, above Teberda village on top of Mt. Hatipara. Elevation 2,050 m. Seed from several plants.

325331. Col. No. S-204. Stavropol region. Above Teberda village on top of Mt. Hatipara, south slope. Elevation 2,130 m. Seed from several plants.

325332. *FESTUCA* sp.

Col. No. S-202. Stavropol region. Above Teberda village on top of Mt. Hatipara, north slope. Elevation 2,130 m. Seed from single plant. Plant glaucous, blue, bunch, 15 to 20 cm. high.

325333. *FESTUCA* sp.

Col. No. S-223. Near Gonatskhir River, under fir trees in shade and good moisture. Elevation 1,440 m. Plant 1.5 m. high; leaf height 30 to 40 cm.

325334. *FRAXINUS EXCELSIOR* L. Oleaceae.

European ash.

Col. No. S-320. Stavropol region. Collective farm near Bekeshevskaya village, low area near stream. Elevation 540 m. Leaves smaller than in United States—possibly ecotype.

325335 to 325342. *GALEGA ORIENTALIS* Lam. Leguminosae.

Caucasian goatsrue.

325335. Col. No. S-99. Stavropol region. In meadow south of Stavropol. Elevation 540 m. Plant 1 m. high.

325336. Col. No. S-109. Stavropol region. In old orchard on northeast slope of Mt. Strizhament, south of Stavropol.

325337. Col. No. S-144. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from several plants.

325338. Col. No. S-240. Stavropol region. Steep slope above mineral spring along Goralkol River. Elevation 1,530 m. Plants to 1.5 m. high, abundant. Seed from many plants.

325339. Col. No. S-243. Stavropol region. Along edge of hayfield near Goralkol River. Elevation 1,350 m.

325340. Col. No. S-317. Stavropol region. Collective farm near Bekeshevskaya village. Elevation 540 m. Seed from several plants.

325341. Col. No. S-328. Stavropol region. Near road, 3 km. southeast of Kislovodsk, north slope. Elevation 720 m. Seeds from several plants; among tall vegetation. Plants 1.0 m., large.

325342. Col. No. S-62. Stavropol region. Sixteen km. northwest of Stavropol. Plants to 75 cm. high, vigorous; leaves very green.

325343. *GENISTA PATULA* M. Bieb. Leguminosae.

Col. No. S-174. Stavropol region. On hill along roadside between Ispravnyaya and Peredovaya. Elevation 750 m. Seed from several plants. Plants 30 to 40 cm. high; leaves dark green. Seed immature.

325344. *GERANIUM* sp. Geraniaceae.

Col. No. S-205. Stavropol region. Above Teberda village on top of Mt. Hatipara, open meadow, south slope. Elevation 2,130 m. Seed from several plants.

325178 to 325526—Continued

- 325345.** *GLYCYRRIZA GLABRA* L. Leguminosae. Common licorice.
Col. No. S-358. Stavropol region. Forestry plantation of Zheleznovodsk, 14 km. west of Zheleznovodsk under Camel Mountain. Elevation 450 m. Perennial, to 1 m. high. Seed from several plants.
- 325346.** *HEDYSARUM CAUCASICUM* Bieb. Leguminosae.
Col. No. S-199. Stavropol region. Above Teberda village on top of Mt. Hatipara, open meadow, north slope. Elevation 2,130 m. Seed from single plant.
- 325347 and 325348.** *HERACLEUM MANTEGAZZIANUM* Somm. & Levier Umbelliferae. Cowparsnip.
325347. Col. No. S-104. Stavropol region. Northwest side of Strizhament mountain, below forest. Plant to 3 m. high.
324348. Col. No. S-106. Stavropol region. Northeast slope of Strizhament mountain south of Stavropol. Elevation 600 m. Plant to 4 m. high; stems 6 cm. in diameter.
- 325349.** *HIPPOPHAE RHAMNOIDES* L. Eleagnaceae. Common sea-buckthorn.
Col. No. S-175. Stavropol region. Bank of Zelenchuk River on dry limestone cliff. Leaves green, shiny above, glaucous beneath; fruit yellow, 6 by 9 mm. Very colorful.
- 325350.** *HOLCUS LANATUS* L. Gramineae. Velvetgrass.
Col. No. S-158. Stavropol region. Along road, south of Elycha in rocky range. Elevation 1,050 m. Seed stalks 0.5 m. high.
- 325351.** *HYPERICUM* sp. Guttiferae.
Col. No. S-314. 'Zveroboy'. Stavropol region. Collective farm near Bekeshevskaya village. Elevation 540 m. Seed from single plant.
- 325352.** *KOELERIA GRACILIS* Pers. Gramineae.
Col. No. S-130. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from several plants.
- 325353.** *KOELERIA LUERSSENII* Domin
Col. No. S-345. Stavropol region. On top of Mt. Mashuk near edge of forest. Elevation 900 m. Seed from single plant.
- 325354.** *LASIAGROSTIS CARAGANA* Trin. & Rupr. Gramineae.
Col. No. S-300. Stavropol Botanic Garden. North Caucasus, craggy rocky slope.
- 325355.** *LATHYRUS AUREUS* (Stev.) Bornm. Leguminosae.
Col. No. S-21. Crimea. Open woods, 16 km. south of Simferopol.
- 325356.** *LATHYRUS PRATENSIS* L. Meadow peavine.
Col. No. S-146. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from several plants.
- 325357.** *LATHYRUS* sp.
Col. No. S-236. Stavropol region. Along Goralkol River on south slope, rocky area. Elevation 1,440 m. Stems to 4 m. long; flowers rose, about size of garden pea. Grows over top of existing vegetation.
- 325358.** *LAVATERA THURINGIACA* L. Malvaceae. Treemallow.
Col. No. S-341. Stavropol region. Six km. east of Pyatigorsk. Plant 1.0 m. high by 70 cm. wide, bushy; flowers pink, 6.0 cm. wide by 5.0 cm. deep, 5 petals, light pink with dark veins. Wild.

325178 to 325526—Continued

- 325359 to 325362. *LIGUSTRUM VULGARE* L. Oleaceae. European privet.
325359. Col. No. S-20. Crimea. Along roadside, north slope Ay-Petry mountain. Mixed with *Pyracantha coccinea*. Elevation 360 m. Seed from single clone; many-stemmed clump.
325360. Col. No. S-70. Stavropol region. Southeast part of Mt. Butchina opening, northwest of Stavropol. Elevation 450 m. Growing among *Crataegus*. Plant to 1.5 m. high, leafy, green. Seed from 2 plants, immature.
325361. Col. No. S-72. Stavropol region. Top of Mt. Butchina, in opening. Plants 2.0 to 4.0 m. high. Plants growing in clumps.
325362. Col. No. S-342. Stavropol region. Ten km. east of Pyatigorsk in row planting on roadside, near lake. Plants dark green; fruits in large terminal clusters, many.
- 325363 to 325378. *LOTUS CAUCASICUS* Kuprian Leguminosae.
325363. Col. No. S-100. Stavropol region. Meadow south of Stavropol. Elevation 540 m. Stems and leaves hairy.
325364. Col. No. S-101. Stavropol region. High, flat area. Elevation 540 m.
325365. Col. No. S-120. Stavropol region. Top of Mt. Strizhament on site of ruins overlooking Kuban River Valley. Elevation 720 m. Seed from many plants.
325366. Col. No. S-153. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from several plants. Plants to 60 cm. high. Growing in association with *Dactylis* and *Calamagrostis*.
325367. Col. No. S-155. Stavropol region. South of Elycha in rocky range. Elevation 900 m.
325368. Col. No. S-159. Stavropol region. South of Elycha in rocky range, open meadow. Elevation 1,080 m. Seed from several plants.
325369. Col. No. S-169. Stavropol region. Along roadside between Ispravnyaya and Peredovaya. Elevation 750 m. Seed from several plants.
325370. Col. No. S-171. Stavropol region. Along roadside between Ispravnyaya and Peredovaya. Elevation 750 m. Seed from many plants.
325371. Col. No. S-173. Stavropol region. On hill along road between Ispravnyaya and Peredovaya. Seed from single plant; plant height 35 cm.
325372. Col. No. S-254. Stavropol region. Ten km. north of Teberda reservation, along main road. Seed from several plants.
325373. Col. No. S-273. Stavropol Botanic Garden. From Ispravnyaya, North Caucasus. Limestone rocky slope.
325374. Col. No. S-274. Stavropol Botanic Garden. From town of Maykop.
325375. Col. No. S-309. Stavropol region. Collective farm near Beke-shevskaya village. Elevation 540 m. Seed from several plants.
325376. Col. No. S-331. Stavropol region. Three km. southeast of Kislovodsk, top of dry knoll. Elevation 720 m. Seed from several plants.
325377. Col. No. S-334. Stavropol region. Three km. southeast of Kislovodsk, north slope in tall grass and legumes. Seed from several plants. Plants to 0.8 m. high. Five to 7 pods per pedicel.

325178 to 325526—Continued

325363 to 325378—Continued

325378. Col. No. S-355. Stavropol region. Top of Mt. Razealka. Elevation 780 m. Seed from several plants.

325379. LOTUS CORNICULATUS L.

Birdsfoot trefoil.

Col. No. S-10. Crimea. On mountain above Yalta. Elevation 540 m. Gravelly soil. Seed from many plants. Plants small.

325380. LOTUS sp.

Col. No. S-229. Stavropol region. Along Goralkol River, along roadside. Elevation 1,440 m. Seed from several plants.

325381. MEDICAGO COERULEA Less. ex. Ledeb. Leguminosae.

Col. No. S-269. Stavropol Botanic Garden.

325382 to 325395. MEDICAGO FALCATA L.

Yellow-flowered alfalfa.

325382. Col. No. S-5. Crimea. Roadside on mountain above Yalta. Elevation 450 m. Plant 30 cm. long, 46 cm. wide, 11 cm. high. Heavy seed producer.

325383. Col. No. S-13. Crimea. Stony embankment on mountain above Yalta. Elevation 900 m. Plants to 20 cm. high. Heavy seed producer.

325384. Col. No. S-53. Askaniya Nova, Southern Ukraine. From reserve steppe area.

325385. Col. No. S-150. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from many plants. Plants large; leaves small; stems many, 1.0 m. long; pods large, sickle shaped.

325386. Col. No. S-152. Stavropol region. South of Elycha in rocky range. Elevation 900 ft. Seed from many plants. Plants large; seed large; stems 1.0 m. long. Found in thicket of brush along with *Dactylis*, *Melilotus*, *Vicia*.

325387. Col. No. S-172. Stavropol region. Along roadside, on hill, between Ispravnyaya and Peredovaya. Elevation 750 m. Seed from many plants.

Stavropol region. Along Goralkol River east of Teberda along roadside. Elevation 1,440 m.

325388. Col. No. S-225. Seed from single plant.

325389. Col. No. S-226. Seed from several adjacent plants.

325390. Col. No. S-227. Seed from several plants close together. Pods strongly sickle shaped, ends nearly touch.

325391. Col. No. S-228. Seed from several plants.

325392. Col. No. S-230. Seed from several plants.

325393. Col. No. S-238. Seed from several plants.

325394. Col. No. S-310. Stavropol region. Collective farm near Beke-shevskaya village. Elevation 540 m. Seed from several plants.

325395. Col. No. S-338. Stavropol region. Three km. southeast of Kislovodsk, north slope. Elevation 720 m. Seed from three plants. Pods large, sickle shaped.

325396 to 325412. MEDICAGO ROMANICA Prod.

Stavropol region. South of Elycha in rocky range. Elevation 900 m.

325396. Col. No. S-126. Seed from several plants.

325397. Col. No. S-137. South slope of ravine.

325398. Col. No. S-138. Seed from two plants on south slope of ravine.

325178 to 325526—Continued

325396 to 325412—Continued

325399. Col. No. S-140. Seed from several plants on dry south slope.

325400. Col. No. S-160. Seed from several plants.

Stavropol region. Along roadside between Ispravnyaya and Peredovaya. Elevation 750 m.

325401. Col. No. S-167. Seed from single plant. Pods very large, sickle shaped.

325402. Col. No. S-168. Seed from many plants.

325403. Col. No. S-177. Stavropol region. Open meadow near road, 80 km. south of Stavropol.

325404. Col. No. S-178. Stavropol region. Near Karachayevsk near road on hillside.

325405. Col. No. S-248. Stavropol region. On hillside, 8 km. north of Teberda reservation near main road. Seed from single plant.

325406. Col. No. S-252. Stavropol region. Roadside, 10 km. north of Teberda reservation, main road. Seed from many plants.

Stavropol Botanic Garden. From reestablished steppe plot.

325407. Col. No. S-270.

325408. Col. No. S-271.

325409. Col. No. S-272.

325410. Col. No. S-306. Stavropol region. Hillside 8 km. north of Teberda. Elevation 1,260 m. Seed from several plants.

325411. Col. No. S-322. Stavropol region. Dry hill 5 km. south of Kislovodsk in terraced forest planting. Elevation 710 m. Seed from many plants.

325412. Col. No. S-333. Stavropol region. Three km. southeast of Kislovodsk, north slope along road. Elevation 720 m. Seed from single plant. Plant large, bushy.

325413. *MEDICAGO SATIVA* var. *VARIA* (Mart.) Urb.

Col. No. S-22. Crimea. Southwest edge of Bakchisaray. Along roadside on chalk and limestone.

325414. *MEDICAGO* sp.

Col. No. S-63. Stavropol region. Sixteen km. northwest of Stavropol. Plants to 25 cm. high.

325415. *MEDICAGO* sp.

Col. No. S-147A. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Contaminant found in P.I. 325515, *Vicia cracca*.

325416. *MEDICAGO* sp.

Col. No. S-312. Stavropol region. Collective farm near Bekeshevskaya village. Elevation 540 m. Seed from single plant. Seeds very large; pods very large; sickle shaped, nearly complete ring.

325417 and 325418. *MELICA ALTISSIMA* L. Gramineae. Siberian melic.

325417. Col. No. S-94. Stavropol region. South slope near woods, south of Stavropol.

325418. Col. No. S-350. Stavropol region. North slope of Mt. Rasealka, in brush thicket, subsurface permafrost. Elevation 740 m. Leaf height 1.5 m.; seed stalks 2.0 m. high. Plants very leafy. Panicles 20 cm. long; pedicels short.

325178 to 325526—Continued

325419. *MELICA TAURICA* K. Koch

Col. No. S-31. Crimea. Rocky slopes above Foros. Plants 20 to 25 cm. high.

325420. *MELILOTUS ALBA* var. *ANNUA* Coe. Leguminosae.

Col. No. S-276. Stavropol Botanic Garden. From village of Beskhagir near Stavropol. Selection from hybrids of sweet clover. Some flowers cream to yellow.

325421. *MELILOTUS HIRSUTA* Lipsky

Col. No. S-277. Stavropol Botanic Garden. From Tuapse.

325422 to 325427. *MELILOTUS OFFICINALIS* (L.) Lam. Yellow sweetclover.

325422. Col. No. S-11. Crimea. Mountain above Yalta; gravelly soil. Elevation 540 m. Seed from several plants.

Stavropol region. South of Elycha in rocky range. Elevation 900 m.

325423. Col. No. S-127. Seed from several plants.

325424. Col. No. S-151. Seed from single plant. Plant to 3 m. high, vigorous, retained foliage after seed ripened.

325425. Col. No. S-250. Stavropol region. Ten km. north of Teberda reservation, along main road. Seed from single plant.

325426. Col. No. S-275. Stavropol Botanic Garden. From Cossack village of Ispravnyaya.

325427. Col. No. S-308. Stavropol region. Collective farm near Beke-shevskaya village. Elevation 540 m. Seed from several plants.

325428 to 325430. *MELILOTUS TAURICA* (Bieb.) Seringe Sweetclover.

325428. Col. No. S-4. Nikitsky Botanical Garden, Yalta, Crimea. South facing dry slope. Elevation 300 m. Flowers white; seed yield abundant.

325429. Col. No. S-28. Crimea. Above Bear Mountain near Krasno Komenka.

325430. Col. No. S-29. Crimea. West of Yalta on road embankment. Biennial.

325431. *MELILOTUS* sp.

Col. No. S-324. Stavropol region. Near road, 3 km. southeast of Kislovodsk. Seed from many plants.

325432 and 325433. *MILIUM EFFUSUM* L. Gramineae.

325432. Col. No. S-194. Stavropol region. Above Teberda village on top of Mt. Hatipara, open meadow. Elevation 1,830 m. Seed from several plants. Plants very large.

325433. Col. No. S-224. Stavropol region. Low, wet area near Gonatshkir River. Elevation 1,440 m. Seed from many plants.

325434. *MOLINIA CAERULEA* L. Gramineae.

Col. No. S-154. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Plant very high; leaf height 80 cm.; seed stalks to 1.5 m. high. Plant contains hydrocyanic acid.

325435 and 325436. *NARDUS STRICTA* L. Gramineae.

325435. Col. No. S-196. Stavropol region. Above Teberda village on top of Mt. Hatipara, open meadow, north slope. Elevation 2,130 m. Seed from many plants.

325436. Col. No. S-215. Stavropol region. Near northern orphanage on Klukhov River. Elevation 1,530 m. Seed from several plants. Plants to 25 cm. high.

325178 to 325526—Continued

325437 to 325439. *ONOBRYCHIS INERMIS* Stev. Leguminosae.

325437. Col. No. S-244. Stavropol region. Roadside, near Goralkol River. Elevation 1,260 m. Seed from many plants.

325438. Col. No. S-279. Stavropol Botanic Garden. From village of Beskhagir, near Stavropol.

325439. Col. No. S-336. Stavropol region. Near road, 3 km. southeast of Kislovodsk. Seed from several plants.

325440. *ONOBRYCHIS PALLASII* Bieb.

Col. No. S-7. Crimea. Southwest edge of Bakchisaray. Growing along roadside on chalk and limestone and soil derived from lime. Plant to 45 cm. high, coarse; flowers cream. Being tested as ornamental and soil stabilizer.

325441. *ONOBRYCHIS PETRAEA* Desv.

Col. No. S-278. Stavropol Botanic Garden. From Caucasus.

325442 and 325443. *ONOBRYCHIS TRANSCAUCASICA* Grossh.

325442. Col. No. S-280. Stavropol Botanic Garden. From Georgia Selection Station.

325443. Col. No. S-323. Stavropol region. Dry hill 5 km. south of Kislovodsk in terraced forest planting. Elevation 710 m. Seed from many plants.

325444. *ONOBRYCHIS VAGINALIS* Meyer

Col. No. S-281. Stavropol Botanic Garden. From Stavropol district; sandy soil.

325445. *ONOBRYCHIS* sp.

Col. No. S-14. Crimea. Dry rocky slope, mountain above Yalta. Elevation 1,080 m. Plants to 8 cm. high, spreading.

325446. *ONOBRYCHIS* sp.

Col. No. S-15. Crimea. Plateau area above Yalta. Elevation 1,080 m.

325447. *ONOBRYCHIS* sp.

Col. No. S-60. Stavropol region. Sixteen km. northwest of Stavropol on road to Novo Marioska. Plants to 55 cm. high.

325448. *ONOBRYCHIS* sp.

Col. No. S-311. Stavropol region. Collective farm near Bekeshevskaya village. Elevation 540 m. Seed from several plants.

325449. *ONONIS HIRCINA* Jacq. Leguminosae.

Col. No. S-357. Stavropol region. Forestry plantation of Zheleznovodsk, 14 km. west of Zheleznovodsk, under Camel Mountain. Elevation 450 m. Plants to 70 cm. high, flowers large, pink. Roots perennial; tops annual.

325450 and 325451. *ORIGANUM VULGARE* L. Labiatae. **Wild marjoram.**

325450. Col. No. S-313. 'Chebret'. Stavropol region. Collective farm near Bekeshevskaya village. Elevation 540 m. Seed from many plants. Plants prostrate, possibly stoloniferous, good ground cover; leaves very fragrant. Reportedly grows on dry soils.

325451. Col. No. S-339. Stavropol region. Near road, 3 km. southeast of Kislovodsk, north slope. Perennial, determinate, to 1 m. high. Leaves and seeds very fragrant.

325452. *PHLEUM MONTANUM* C. Koch Gramineae.

Col. No. S-32. Crimea. Rocky slopes on mountain above Foros. Elevation 900 m. Perennial, to 10 cm. high, green, vigorous. Possible good ground cover.

325178 to 325526—Continued

- 325453 to 325459. *PHLEUM PHLEOIDES* (L.) Karst. Timothy.
325453. Col. No. S-86. Stavropol region. Near forest, on steppe, south of Stavropol.
325454. Col. No. S-111. Stavropol region. In meadow south of Stavropol on Mt. Strizhament. Elevation 570 m.
325455. Col. No. S-115. Stavropol region. Virgin steppe area on top of Mt. Strizhament. Elevation 720 m.
325456. Col. No. S-123. Stavropol region. About 300 km. south of Stavropol, south of Elycha, rocky range, Mt. Baranacha. Elevation 900 m. Seed stalks to 60 cm. high; seed heads 8.0 cm. long.
325457. Col. No. S-124. Stavropol region. Rocky range south of Elycha. Elevation 900 m. Seed stalks to 1 m. high; seed heads 13 to 14 cm. long.
325458. Col. No. S-251. Stavropol region. Ten km. north of Teberda reservation, along main road. Seed from several plants.
325459. Col. No. S-344. Stavropol region. On top of Mt. Mashuk, above forest. Elevation 900 m. Seed from several plants.
- 325460 and 325461. *PHLEUM PRATENSE* L. Common timothy.
325460. Col. No. S-82. Stavropol region. Hillside, 19 km. south of Stavropol.
325461. Col. No. S-253. Stavropol region. Ten km. north of Teberda reservation, along main road. Seed from several plants.
325462. *POA IBERICA* Fisch. Mey. & Ave-Lall. Gramineae.
Col. No. S-301. Stavropol Botanic Garden. From the rocky range.
325463. *POA LONGIFOLIA* Trin.
Col. No. S-186. Stavropol region. Above Teberda village on top of Mt. Hatipara, open meadow. Elevation 1,830 m. Seed from several plants.
325464. *POA NEMORALIS* L. Wood bluegrass.
Col. No. S-92. Stavropol region. Near forest on steppe south of Stavropol.
- 325465 and 325466. *PSORALEA BITUMINOSA* L. Leguminosae. Scurf-pea.
325465. Col. No. S-2. Crimea. Bank along roadside, partial shade, in Nikitsky Botanical Garden. Elevation 300 m. Perennial, low growing.
325466. Col. No. S-303. Stavropol Botanic Garden. From town of Tuapse.
325467. *RHAMNUS CATHARTICA* L. Rhamnaceae. Common buckthorn.
Col. No. S-97. Stavropol region. Edge of forest south Stavropol. Elevation 540 m. Seed from single plant. Plant 3.0 to 4.0 m. high; fruit purple.
325468. *RHAMNUS PALLASII* Fisch. Buckthorn.
Col. No. S-246. Stavropol region. Hillside, near main road, 8 km. north of Teberda reservation. Grows in steppe zone and rocky areas. Plant prostrate, to 25 cm. high, spreading; leaves very narrow. Good ground cover.
325469. *RHAPONTICUM CARTHAMOIDES* (Willd.) Iljin Ericaceae.
Col. No. S-1. Presented by V. S. Sokolov, All-Union Institute of Plant Industry, Leningrad. From Siberia. Plant to 3 m. high. Reported high production of ensilage.

325178 to 325526—Continued

- 325470 and 325471. *RHODODENDRON CAUCASICUM* Pall. Ericaceae.
Caucasian rhododendron.
325470. Col. No. S-195. Stavropol region. Above Teberda village on top of Mt. Hatipara, north slope, open meadow. Elevation 1,830 m. Seed from many plants. Plant to 1.0 m. high.
325471. Col. No. S-209. Stavropol region. Near Klukor Lake, on south slope. Elevation 2,250 m. Plant to 1.0 m. high. Prevalent in area, growing in large patches.
325472. *RHODODENDRON FLAVUM* G. Don
Col. No. S-156. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Plant to 2.0 m. high. Seed from several plants.
325473. *ROSA* sp. Rosaceae.
Col. No. S-61. Stavropol region. Sixteen km. northwest of Stavropol on Novo Marioska road. Plants 40 to 65 cm. high; hips dark purple.
325474. *SANGUISORBA POLYGAMA* Nyland Rosaceae.
Col. No. S-302. Stavropol Botanic Garden. From Kuban Experiment Station.
325475. *SECURINEGA RAMIFLORA* (Ait.) Muell.-Arg. Euphorbiaceae.
Col. No. S-38. Askaniya Nova Botanic Garden, Southern Ukraine steppe area. From Northern China. Plants dioecious, to 3.0 m. high, bushy; fruit inconspicuous, 5.0 to 6.0 mm. diameter.
325476. *SORBUS AUCUPARIA* L. Rosaceae. European mountain-ash.
Col. No. S-37. Askaniya Nova Botanic Garden, Southern Ukraine steppe area. From Saratov in middle Soviet Union. Plant bushy, 4.0 high by 2.5 m. side; fruit light set, light orange.
- 325477 and 325478. *STIPA CAPILLATA* L. Gramineae.
325477. Col. No. S-35. Southern Ukraine steppe at Askaniya Nova. Collected on reserved steppe area. Plants to 85 cm. high.
325478. Col. No. S-85. Stavropol region. Near woods on steppe area, south of Stavropol.
- 325479 to 325483. *TRIFOLIUM ALPESTRE* L. Leguminosae. Purple globe clover.
325479. Col. No. S-232. Stavropol region. Along Goralkol River, along roadside, south slope. Seed from several plants.
325480. Col. No. S-289. Stavropol Botanic Garden. From Moscow Botanic Garden.
325481. Col. No. S-329. Stavropol region. Near road, 3 km. southeast of Kislovodsk, on steep north slope in tall vegetation. Seed from many plants. Plants large.
325482. Col. No. S-353. Stavropol region. Top of Mt. Razealka. Elevation 780 m. Seed from several plants. Possibly mixed with *Trifolium pratense*.
325483. Col. No. S-354. Stavropol region. Top of Mt. Razealka. Elevation 780 m. Seed from several plants.
- 325484 to 325490. *TRIFOLIUM AMBIGUUM* Bieb. Kura clover.
325484. Col. No. S-16. Crimea. Plateau area above Yalta. Elevation 1,080 m.
325485. Col. No. S-185. Stavropol region. Above Teberda Village on top of Mt. Hatipara, open meadow. Elevation 1,830 m. Seed from several plants.

325178 to 325526—Continued

325484 to 325490—Continued

325486. Col. No. S-201. Stavropol region. Above Teberda village on top of Mt. Hatipara, south slope, open meadow.

325487. Col. No. S-216. Stavropol region. Near northern orphanage on Klukhov River. Elevation 1,530 m. Seed from many plants.

325488. Col. No. S-235. Stavropol region. Along Goralkol River, along roadside. Elevation 1,440 m.

325489. Col. No. S-285. Stavropol Botanic Garden.

325490. Col. No. S-286. Stavropol Botanic Garden. From village of Michailovka near Stavropol.

325491. TRIFOLIUM CAMPESTRE Schreb. Leguminosae. **Large hop clover.**

Col. No. S-179. Stavropol region. Hillside along road to Teberda. 136 km. south of Stavropol.

325492 and 325493. TRIFOLIUM CANESCENS Willd. Leguminosae.

325492. Col. No. S-188. Stavropol region. Above Teberda Village on top of Mt. Hatipara, open meadow. Elevation 1,830 m. Seed from single plant.

325493. Col. No. S-220. Stavropol region. Near northern orphanage on Klukhov River, south slope. Elevation 1,530 m. Growing among grasses; 10 to 20 cm. high.

325494. TRIFOLIUM CAUCASICUM Tausch

Col. No. S-287. Stavropol Botanic Garden. From near the Black Lake.

325495. TRIFOLIUM FRAGIFERUM L.

Strawberry clover.

Col. No. S-287. Stavropol Botanic Garden. From south of Cherkessk.

325496 to 325499. TRIFOLIUM MEDIUM Huds.

Zigzag clover.

325496. Col. No. S-8. Crimea. Roadside, on mountain above Yalta. Elevation 540 m. Plants to 16 cm. high, dark green, spreading.

325497. Col. No. S-116. Stavropol region. Virgin steppe area on top of Mt. Strizhament. Elevation 720 m.

325498. Col. No. S-170. Stavropol region. Along roadside between Ispravnaya and Peredovaya. Elevation 750 m. Seed from many plants.

325499. Col. No. S-233. Stavropol region. Along Goralkel River, along roadside. Elevation 1,440 m. Seed from several plants.

325500. TRIFOLIUM NEGLECTUM C. A. Mey.

Col. No. S-283. Stavropol Botanic Garden. From Stavropol region.

325501 to 325504. TRIFOLIUM PRATENSE L.

Red clover.

325501. Col. No. S-17. Crimea. From plateau area northwest of Yalta. Elevation 1,080 m. Plants small, in mowed hayfield, occasionally grazed.

325502. Col. No. S-217. Stavropol region. Near northern orphanage on Klukhov River. Elevation 1,530 m. Seed from several plants.

325503. Col. No. S-282. Stavropol Botanic Garden. From shore of Kuban River near Nevinnomisk.

325504. Col. No. S-332. Stavropol region. North slope near road, 3 km. southeast of Kislovodsk. Seed from several plants. Plants to 1.0 m. high.

325505 to 325506. TRisetum FLAVESCENS (L.) Beauv Gramineae.

325178 to 325526—Continued

325505 to 325506—Continued

325505. Col. No. S-182. Stavropol region. Above Teberda Village on top of Mt. Hatipara, open meadow. Elevation 1,830 m. Seed from several plants.

325506. Col. No. S-304. Stavropol Botanic Garden. From rocky range, North Caucasus.

325507. *TRIFOLIUM RUBENS* L. Leguminosae. **Clover.**

Col. No. S-288. Stavropol Botanic Garden. From Moscow Botanic Garden.

325508. *TRIFOLIUM AGRARIUM* L.

Col. No. S-231. Stavropol region. Along Goralkol River, along roadside. Elevation 1,440 m. Seed from several plants. Annual. Plants 30 to 35 cm. high.

325509. *TRIFOLIUM TRICHOCEPHALUM* Bieb. Leguminosae.

Col. No. S-284. Stavropol Botanic Garden. From Mt. Baranaka, rocky range.

325510. *TRIFOLIUM* sp.

Col. No. S-125. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Possible mixture of *T. medium* and *T. pratense*.

325511. *VIBURNUM OPULUS* L. Caprifoliaceae. **European cranberry bush.**

Col. No. S-321. Stavropol region. Collective farm near Bekeshevskaya village. Elevation 540 m. Fruit bright red, clusters. Attractive; possible ornamental.

325512. *VICIA ANGUSTIFOLIA* L. Leguminosae.

Col. No. S-128. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from single plant.

325513 and 325514. *VICIA CASSUBICA* L.

325513. Col. No. S-23. Crimea. Sixteen km. south of Simferopol, open woods.

325514. Col. No. S-26. Crimea. Above Bear Mountain near Krasno Komenka, stony limestone soil. Plants to 50 cm. high, vigorous, spreading.

325515. *VICIA CRACCA* L. **Cow vetch.**

Col. No. S-147. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from several plants.

325516. *VICIA PICTA* Fisch. & Mey.

Col. No. S-291. Stavropol Botanic Garden. From Rostov on Don River.

325517. *VICIA PISIFORMIS* L.

Col. No. S-292. Stavropol Botanic Garden. From Moldavia.

325518 to 325520. *VICIA SEPIUM* L.

325518. Col. No. S-145. Stavropol region. South of Elycha in rocky range. Elevation 900 m. Seed from several plants.

325519. Col. No. S-183. Stavropol region. Above Teberda village on top of Mt. Hatipara, open meadow. Elevation 1,830 m. Seed from several plants.

325520. Col. No. S-242. Stavropol region. Along edge of hayfield near Goralkol River. Elevation 1,350 m. Seed from several plants.

325178 to 325526—Continued**325521 to 325524.** *VICIA TENUIFOLIA* Roth

325521. Col. No. S-18. Crimea. Roadside, north slope of Ay-petry Mountain. Elevation 1,080 m.

325522. Col. No. S-110. Stavropol region. Old orchard, northeast slope of Mt. Strizhament, south of Stavropol.

325523. Col. No. S-119. Stavropol region. Virgin steppe area on top of Mt. Strizhament. Elevation 720 m.

325524. Col. No. S-316. Stavropol region. Collective farm near Beke-shevskaya village. Elevation 540 m. Seed from several plants.

325525. *VICIA VILLOSA* Roth**Hairy vetch.**

Col. No. S-52. Askaniya Nova, Southern Ukraine. From reserve steppe area.

325526. *VIOLA TRICOLOR* L. Violaceae.**Common pansy.**

Col. No. S-351. Stavropol region. North slope of Mt. Razealka, in brush thicket, subsurface permafrost in tall vegetation. Elevation 740 m. Seed from several plants. Plants 40 to 45 cm. high; flowers 3.0 by 2.5 cm., shading from cream at top to yellow at bottom.

325527 and 325528. *PRUNUS ARMENICA* L. Rosaceae. **Apricot.**

From Italy. Scions presented by the Instituto di Frutticoltura, Ciampino Ovest (Firoano), Rome. Received Feb. 12, 1968.

325527. 'Baracca'—"San Castrese".

325528. 'Caninos'.

325529. *MALUS SLYVESTRIS* Mill. Rosaceae.**Apple.**

From Germany. Scions presented by the Biologische Bundesanstalt, Institut für Obst Krankheiten, Heidelberg. Received Feb. 13, 1968.

'Stahls Prinz'.

325530. *TRITICUM AESTIVUM* L. Gramineae. **Common wheat.**

From Korea. Seeds presented by the Crop Experiment Station, Office of Rural Development, Suwon. Received Feb. 13, 1968.

'Yung Kwang'.

325531. *MALUS SYLVESTRIS* Mill. Rosaceae.**Apple.**

From England. Scions presented by the National Fruit Trials, Brogdale Farm, Faversham, Kent. Received Feb. 2, 1968.

'Acme'.

325532. *ACER PALMATUM* Thunb. Aceraceae. **Japanese maple.**

From England. Plants presented by Exbury Gardens, Ltd., Exbury, Nr. Southampton. Received Feb. 5, 1968.

'Chitoseyema'.

325533 to 325557. *SACCHARUM* (hybrid) Gramineae.**Sugarcane.**

From India. Cuttings presented by the Director, Sugarcane Breeding Station, Coimbatore. Received Feb. 8, 1968.

325533. I.A. 1540.

325537. I.A. 1715.

325534. I.A. 1549.

325538. I.A. 1731.

325535. I.A. 1583.

325539. I.A. 1741.

325536. I.A. 1692.

325540. I.A. 1749.

325533 to 325557—Continued

325541. I.A. 1779.	325550. I.A. 1957.
325542. I.A. 1780.	325551. I.A. 2076.
325543. I.A. 1781.	325552. I.A. 2077.
325544. I.A. 1805.	325553. I.A. 2258.
325545. I.A. 1808.	325554. I.A. 2263.
325546. I.A. 1832.	325555. I.A. 2267.
325547. I.A. 1857.	325556. I.A. 2270.
325548. I.A. 1858.	325557. I.A. 2330.
325549. I.A. 1862.	

325558 to 325580.

From Venezuela. Plants collected by D. H. Timothy, North Carolina State University, Raleigh, North Carolina. Received Feb. 12, 1968.

325558. TRIPSACUM sp. Gramineae.

Col. No. 229. Trujillo, 8 km. above Batatal on road to Campo Elias. Elevation 1,200 m.

325559. TRIPSACUM sp.

Col. No. 231. Trujillo, 8 km. on road from Batatal to Bocono. Elevation 1,700 m.

325560. TRIPSACUM sp.

Col. No. 232. Trujillo, 1 km. on road from Valera to Trujillo on rocky slope above Motatan River.

325561. TRIPSACUM sp.

Col. No. 233. Trujillo, at foot of dry rocky hill on Motatan River.

325562. TRIPSACUM sp.

Col. No. 234. Trujillo, 3 to 4 km. below La Puerta on road to Timotes. Elevation 1,400 m.

325563. TRIPSACUM sp.

Col. No. 235. Trujillo, dry hillside 4 km. below La Mesa along Motatan River. Elevation 1,200 m.

325564. TRIPSACUM sp.

Col. No. 236. Trujillo, road from La Mesa to Valua, 15 km. below bridge, Quebrada de las Cuevas. Elevation 800 m.

325565. TRIPSACUM sp.

Col. No. 237. Trujillo, below Pueblo Quebrada de la Cuevas, along river and canal. Elevation 700 m.

325566. TRIPSACUM sp.

Col. No. 238. Trujillo, 5 km. on road from Valera to Las Cuevas, Quebrada de las Cuevas. Elevation 600 m.

325567. TRIPSACUM sp.

Col. No. 239. Merida, 0.5 km. on road from La Vigia to Mendoza.

325568. TRIPSACUM sp.

Col. No. 240. Tachira, 5 km. on road from La Libertad to San Antonio.

325569. TRIPSACUM sp.

Col. No. 241. Tachira, 22 km. on road from Las Delicias to Rubio.

325558 to 325580—Continued**325570. TRIPSACUM sp.**

Col. No. 242. Tachira, 18 km. on road from San Cristobal to Rubio. Elevation 1,500 m.

325571. TRIPSACUM sp.

Col. No. 243. Tachira, 13 km. on road from San Cristobal to Rubio.

325572. TRIPSACUM sp.

Col. No. 244. Tachira, 11 km. on road from San Cristobal to Rubio, El Cedro.

325573. TRIPSACUM sp.

Col. No. 245. Tachira, 13 km. on road from Rubio to San Cristobal. Elevation 1,200 m.

325574. TRIPSACUM sp.

Col. No. 246. Tachira, 11 km. on road from La Grita to El Cobre. Elevation 1,200 m.

325575. TRIPSACUM sp.

Col. No. 248. Tachira, 3 km. above bridge between La Grita and La Quinta. Elevation 1,400 m.

325576. TRIPSACUM sp.

Col. No. 249. Tachira, 5 km. on road from La Grita to Serobuco.

325577. TRIPSACUM sp.

Col. No. 250. Tachira, 4 km. above La Grita along road to Hotel Montana. Elevation 1,900 m.

325578. TRIPSACUM sp.

Col. No. 254. Merida, between Ejido and Parroguia.

325579. TRIPSACUM sp.

Col. No. 257. Barinas, 5 km. above Barinitas. Elevation 900 m.

325580. TRIPSACUM sp.

Col. No. 258. Lara, 20 km. on road from Barquisimeto to Acariqua. Elevation 500 m.

325581 to 325583.

From Taiwan. Seeds collected by John L. Creech, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Feb. 14, 1968.

325581. IDESIA POLYCARPA Maxim. Flacourtiaceae.

Col. No. 1616. Along road below Lushan. Elevation 1,900 m. Tree large; fruit round, red, many seeded.

325582. RHODODENDRON RUBROPILOSUM Hayata Ericaceae.

Col. No. 1607. Along mountain road below Hohuan, Nantou County. Elevation 2,000 m. Hairless.

325583. VACCINIUM MERRILIANUM Hayata Ericaceae.

Col. No. 1484. On Rulin-Shan, Morrison Range, usually on underside of embankments and shade. Elevation 2,600 m. Plant prostrate, evergreen.

325584 to 325694.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Feb. 14, 1968.

325584 to 325694—Continued

325584. PHASEOLUS (hybrid). Leguminosae.

Col. No. 22443. 'Acahuacate'. (*P. vulgaris* x *P. coccineus*). Near Teteles, Puebla. Moist mountain slope in milpa. Elevation 5,900 feet. Climbing; intermediate variants between the two species.

325585. PHASEOLUS ADENANTHUS G. Meyer

Col. No. 22540. Five miles east of Iguala, Guerrero. Elevation 3,000 feet. Vine, small.

325586 and 325587. PHASEOLUS ANISOTRICHOS Schlecht.

325586. Col. No. 22342. Seven miles east of Mitla along road to San Lorenzo. Perennial ground vine, spreading; flowers purple.

325587. Col. No. 22501. District de Etla, Oaxaca. Elevation 6,000 feet. Vine, small.

325588 to 325603. PHASEOLUS COCCINEUS L. Scarlet runner bean.

325588. Col. No. 22352. 'Ayocote'. Near Ayutla, Tamazulapan District, Oaxaca. Elevation 6,500 feet. Perennial vine spreading along road bank; flowers red.

325589. Col. No. 22362. Nacaltepec, 20 miles north of Telixtlahuaca, Oaxaca. Elevation 6,400 feet. Perennial vine along rocky creek bank; flowers red; pods green, purple striped; seeds black, violet, mottled gray.

325590. Col. No. 22414. 'Ayocote'. Market in Tehuacan, Puebla. Seed large, light weight, various colors but mostly black.

325591. Col. No. 22436. 'Shaushana'. Altotongo, Veracruz. Wet climate. Elevation 6,000 feet. Perennial vine, coarse, climbing. Spontaneous on banks and along milpa margins.

325592. Col. No. 22440. 'Ayocote'. Market in Altotonga, Veracruz. Elevation 6,000 feet. Large, mostly black, pole type. Planted with maize.

325593. Col. No. 22448. 'Ayocote'. Market in Zacapoaxtla, Puebla. Elevation 6,000 feet. Mostly large polyglot of varieties.

Market in Tlatlauqui, Puebla. Cool moist, cloudy climate. Elevation 6,000 feet.

325594. Col. No. 22459. 'Ayocote'. Coarse; flowers red. Pole type. Grown with maize.

325595. Col. No. 22460. 'Ayocote'. Coarse. Pole type. Grown with maize.

Market in Tezuitlan, Puebla. Cool, moist, cloudy climate. Elevation 6,000 feet.

325596. Col. No. 22463. 'Ayocote'. Seeds of many colors. Pole type.

325597. Col. No. 22464. 'Shanshana'. Reported cultivated, but also found spontaneous in area.

325598. Col. No. 22490. Sixty-four km. along toll road north of Cuernavaca, Morelos. Elevation 6,500 feet. Perennial vines in thicket on rocky road shoulder with *Wigandia senecio* and *P. vulgaris*. Pods small.

Ixtlan de Juarez, Oaxaca. Elevation 7,500 feet.

325599. Col. No. 22514. 'Frijol chuparosa'. Vine, low spreading, bushy; seeds small, light grayish.

325600. Col. No. 22515. 'Frijol chuparosa'. Vine bushy; seeds black. Ayutla, 33 miles east of Mitla, Oaxaca. Elevation 6,900 feet.

325584 to 325694—Continued**325588 to 325603—Continued**

325601. Col. No. 22522. Seeds black. Planted with maize.

325602. Col. No. 22523. Vine red flowered; seeds black.

325603. Col. No. 22527. Nacaltepec, Oaxaca, 20 miles north of Telixtlahuaca. Elevation 6,400 feet. Along stream with *Arundo donax* and other shrubs. Perennial vines; seeds black.

325604 to 325608. PHASEOLUS COCCINEUS ssp. DARWINIANUS Hern. & Mir.

325604. Col. No. 22444. 'Acalete'. Market in Zacapoaxtla, Puebla. Moist mountain. Elevation 5,700 feet. Pole type. Planted with maize.

325605. Col. No. 22454. 'Acalete'. Market in Altotonga, Veracruz. Elevation 6,000 feet. Seed large, broad, pale yellow; hilum wide.

325606. Col. No. 22458. 'Acalete'. Market in Tlatlaqui, Puebla. Moist, foggy, cool climate. Elevation 6,000 feet. Hybrid, pole type. Grown in milpa.

325607. Col. No. 22462. 'Acalete'. Market in Tezuitlan, Puebla. Moist, cloudy, cool climate. Elevation 6,000 feet. Seed typical for area, tan; reportedly from Revenya.

325608. Col. No. 22479. 'Acalete'. Market in Coscomatepec, Veracruz. Elevation 5,100 feet. Large, buff, veiny.

325609. PHASEOLUS LEIOSEPALUS Piper

Col. No. 22388. Ten miles southeast of Miahuatlan, Oaxaca. Arid, limestone rocky slope with cutover oaks. Perennial vine from tuberous roots, small, climbing; flowers pale red.

325610. PHASEOLUS LUNATUS L.

Lima bean.

Col. No. 22367. Telixtlahuaca, Oaxaca. Elevation 5,000 feet. Perennial vine, large; fruiting abundantly twice yearly; seeds red.

325611 to 325691. PHASEOLUS VULGARIS L.

Common bean.

Market in Zinocatepec, Puebla. Elevation 6,000 feet.

325611. Col. No. 22330. Seed yellow, rather flat and long. Bush type; grown with irrigation.

325612. Col. No. 22331. Small, black, some white. Grown with summer rains in mountains.

325613. Col. No. 22332. From Chiltepec. Red to purplish. Reportedly bush type.

325614. Col. No. 22333. From Chiltepec. Mixed lot, black, white, gray mottled. Reportedly bush type.

325615. Col. No. 22334. Ajalpan, Tehuacan Valley, Puebla. Elevation 5,000 feet. Mixed colors. Bush type. Grown with irrigation.

Market in Chilac, Tehuacan Valley, Puebla. Elevation 5,000 feet.

325616. Col. No. 22336. Black. Pole type. Grown with irrigation.

325617. Col. No. 22338. Grown in Termatayunca. Small, black. Bush type. Grown with irrigation.

325618. Col. No. 22339. Dark lavender. Grown on mountain west of Chilac.

Nacaltepec, 20 miles north of Telixtlahuaca, Oaxaca. Elevation 6,400 feet.

325619. Col. No. 22363. 'Frijol machete negro'. Black. Resistant to weevils. Grows well in cold weather.

325584 to 325694—Continued

325610 to 325691—Continued

325620. Col. No. 22364. 'Frijol machete blanco'. White.
325621. Col. No. 22365. 'Frijol amarillo'. Yellow.
325622. Col. No. 22366. 'Frijol blanco'. Small, white.
325623. Col. No. 22368. 'Frijol blanco enano'. Small, white; reportedly bush type.
325624. Col. No. 22369. 'Frijol colorado'. Red.
Market in Ejutla, Oaxaca. Elevation 5,500 feet.
325625. Col. No. 22374. 'Frijol negro delgado'. Small, black. Pole type. Very common in Oaxaca Valley.
325626. Col. No. 22375. 'Frijol negro grueso'. Larger than P.I. 325625, black. Pole type.
325627. Col. No. 22382. 'Frijol pinero'. Candelario, District Pochutla, Oaxaca. Elevation 2,000 feet. Small, black and red. Bush type. Common along coastal lowlands.
325628. Col. No. 22407. Market in Tepoztlan, Morelos. Elevation 5,000 feet. Market bin. Mixed.
325629. Col. No. 22408. 'Aluvian'. Market in Tepoztlan, Morelos. Elevation 5,000 feet. Small, white.

Chapingo, Mexico State. Originally from Escuela Nacional de Agricultura, Zamaranao, Honduras.

325630. Col. No. 22411. 'Pinto 168'. Selected variety. Some resistance to *Apion* weevils.
325631. Col. No. 22412. 'Pinto 162'. Selected variety. Most resistance to *Apion* weevils.
325632. Col. No. 22413. 'Negro 150'. Selected variety. Some resistance to *Apion* weevils.
325633. Col. No. 22430. 'Frijol negro'. Mountain above Coaxcatlan, Tehuacan District, Oaxaca. From Chiltepec. Small, black. Bush type.

Market in Acatzingo, Puebla. Elevation 6,000 feet.

325634. Col. No. 22431. 'Frijol criollo'. From Ciudad Cerdan. Mixed varieties.
325635. Col. No. 22432. 'Frijol negro'. Black. Bush type. Common.
325636. Col. No. 22433. 'Criollo de Perote'. From Perote area. Mixed varieties.
325637. Col. No. 22434. 'Criollo de San Andreas'. From San Andreas area. Mixed varieties.

Market in Altotonga, Veracruz. Elevation 6,000 feet.

325638. Col. No. 22437. 'Frijol negro'. Small, black.
325639. Col. No. 22438. 'Frijol negro'. Small, black. Bush type. From the Tierra Caliente.
325640. Col. No. 22439. 'Frijol amarillo'. Yellow.
325641. Col. No. 22441. 'Frijol mantequilla'. Medium, buff with yellow eye.

Market in Zacapoaxtla, Puebla. Moist mountain slopes. Elevation 5,700 feet.

325584 to 325694—Continued

325610 to 325691—Continued

325642. Col. No. 22445. 'Frijol sauhuetoli'. Small, lavender, rabbit eye pattern.

325643. Col. No. 22446. 'Frijol amarillo'. Yellow.

325644. Col. No. 22447. 'Frijol bayo'. Small dun colored.

Market in Tlatlauqui, Puebla. Moist, foggy climate. Elevation 6,000 feet.

325645. Col. No. 22455. Small, brownish yellow. Bush type.

325646. Col. No. 22456. 'Frijol avreadores'. Small, brown.

325647. Col. No. 22457. 'Frijol bayitos'. Tan.

325648. Col. No. 22461. 'Frijol revesero'. Market in Tezuitlan, Puebla. Cool, moist, cloudy climate. Elevation 6,000 feet. Lavender-gray mottled.

Market in Coscomatepec, Veracruz. Elevation 5,100 feet.

325649. Col. No. 22478. 'Frijol badgito.' Small, rabbit-eye pattern mixed with black and tan.

325650. Col. No. 22480. 'Frijol barranqueno'. Small, black.

325651. Col. No. 22481. 'Frijol de milpa' or 'Todga'. Small, shiny black; hilum small.

325652. Col. No. 22482. 'Frijol tlanchete'. Small, black. Reported as name and place of bean with resistance to several diseases.

325653. Col. No. 22483. 'Frijol badgito'. Small, dun.

325654. Col. No. 22484. 'Frijol bayo'. Small, brown and yellow.

325655. Col. No. 22486. 'Tlanchete'. Small, uniform, black. hilum small, white. Reported to be most resistant to several diseases.

325656. Col. No. 22485. 'Frijol amarillo'. Small, light yellow to brownish.

325657. Col. No. 22488. 'Frijol roja'. Sierra de Coxcatlan Puebla. Elevation 7,000 feet. Small, red.

325658. Col. No. 22499. Tepoztlan, Morelos. Elevation 5,500 feet. Pods large, purple; seeds large, long, pink. Infested with *Apion godmanii*. Pole type. Single plant volunteering in corn field.

325659. Col. No. 22504. Arroyo above Telixtlahuaca, Oaxaca. Elevation 5,500 feet. Annual, small; seeds white. Spontaneous in thicket of *Arundo donax*.

Telixtlahuaca, Oaxaca. Elevation 5,500 feet.

325660. Col. No. 22503. 'Frijol liston'. Pods red; seeds red. Pole type.

325661. Col. No. 22506. 'Frijol machete'. Seeds black. Pole type. Compare with wild P.I. 325681.

325662. Col. No. 22507. Reported cross between 'Frijol liston' × 'Frijol cuarantero'.

325663. Col. No. 22508. 'Frijol liston'. Spontaneous in *Arundo donax* thicket along arroyo.

325664. Col. No. 22524. Ayutla, Oaxaca. Elevation 7,000 feet. Various colors. Pole type.

325665. Col. No. 22525. Rancho Sacatal along road to Ayutla, east of Mitla, Oaxaca. Elevation 6,000 feet. Various colors. Pole type.

Market in Iguala, Guerrero. Elevation 2,400 feet.

325584 to 325694—Continued

325610 to 325691—Continued

325666. Col. No. 22536. 'Frijol acerado'. Brown.
325667. Col. No. 22537. 'Frijol rosita'. Small, pink.
325668. Col. No. 22538. 'Ojo de lievre'. Brownish, rabbit-eye.
325669. Col. No. 22539. 'Ojo de lievre'. From Morelos. Large, light colored, rabbit-eye pattern. Huetamo, Michoacan. Elevation 700 feet.
325670. Col. No. 22549. 'Flor de mayo'. Small, rosy. Mixed.
325671. Col. No. 22550. 'Frijol apetito'. From Morelia. Hilum large ringed with yellow.
- Market in Jacona, Michoacan.
325672. Col. No. 22559. 'Sangre de toro'. Roundish, red; hilum small.
325673. Col. No. 22560. 'Frijol revosito'. Brownish, speckled.
325674. Col. No. 22564. 'Frijol encerado'. Small, brown.
325675. Col. No. 22565. 'Frijol azufrado'. Market in Alamos Sonora. From Sierras in Chihuahua. Small, pale yellowish. Wild collections.
325676. Col. No. 22395. 'Frijol de raton'. Four miles northeast of highway junction on road to Ixtlan de Juarez, Oaxaca. Elevation 5,500 feet. Riparian in thickets. Annual, climbing; flowers lavender; pods narrow, green; 5 to 8 spikes, pendulant characteristically. Reported scattered all along arroyo. Edible.
325677. Col. No. 22404. Tepoztlan, Morelos, tuffaceous hill. Elevation 6,000 feet. Oaks; many shrubs. Annual vine, small; flowers white fading yellow; pods small, some rather broad. Plants weak in forest shade, stronger at foot of mountain, growing in dwarf *Ipomoea* trees.
325678. Col. No. 22492. Sixty-four km. along toll road above Cuernavaca, Morelos. Elevation 6,500 feet. Annual vine along road shoulder with *Wigandia*, *Veronica* and other shrubs. Scarce.
325679. Col. No. 22497. Valley by Tepoztlan, Morelos. Stone fence along milpa. Elevation 5,500 feet. From single plant. Pods large; seeds large. Possibly crossed with cultivated bean. Not edible.
325680. Col. No. 22502. 'Frijol chaneca'. About 1.5 miles above Telixtlahuaca, Oaxaca. Along arroyo. Carrizo and in shrubbery. Annual vine, small. Scarce and scattered.
325681. Col. No. 22505. 'Frijol machete'. Telixtlahuaco, Oaxaca. Moist arroyo with *Baccharis* and other shrubs. Elevation 5,500 feet. Perennial vine, large, coarse, several years old; lower stems woody, 0.5 inch thick; seeds black.
325682. Col. No. 22512. About 3.5 miles above highway junction along road to Ixtlan de Juarez, Oaxaca, in *Baccharis glutinosa* thicket. Elevation 5,400 feet. Annual vine; stems thick; pods large; seeds large, black.
325683. Col. No. 22530. 'Coxcinctla'. Five miles northeast of Cuernavaca, Morelos, along toll road. Elevation 6,300 feet. Annual vine; pods and seeds unusually large.
325684. Col. No. 22535. Limestone slope with shrubby cover, 5.5 miles east of Teloloapam, Guerrero. Elevation 4,600 feet. Annual vine, small; pods dry, small, narrow; seeds yellow. With *Euchlaena*.
325685. Col. No. 22541. Open hillslope of limestone with scattered trees, shrubs and grass, 8.5 miles west of Teloloapam, Guerrero. Elevation 5,200 feet. Annual vine, small; seeds black. Scarce.

325584 to 325694—Continued

325610 to 325691—Continued

325686. Col. No. 22542. 'Frijol del raton'. Twelve miles west of Telo-loapam, Guerrero, with *Ipomoea*, *Acacia*, *Compositae*. Annual vine, heavy yielding; seeds yellow, brown and black. Along road shoulder.
325687. Col. No. 22543. 'Frijol del raton'. Fifteen miles west of Teloapam, Guerrero, with *Ipomoea*, *Lysiloma*, on denuded slope, south exposure. Elevation 5,400 feet. Possibly a perennial vine, heavy yield.
325688. Col. No. 22544. 'Frijol del raton'. Seventeen miles west of Teloapam, Guerrero, shade slope of open hills, roadside. Elevation 4,800 feet. Annual vine; seeds various colors.
325689. Col. No. 22545. Along road, 23 miles west of Teloapam, Guerrero, deforested hill slope with grass and weeds. Elevation 4,300 feet. Annual vine, small; pods small; seeds small, various colors.
325690. Col. No. 22546. Eight miles east of Arcelia, Guerrero, with *Compositae*, *Leucaena*, *Guazuma*, *Ipomoea*, *Bursera*. Elevation 2,800 feet. Annual vine, dry; seeds rather uniform, mottled gray with rabbit-eye pattern.
325691. Col. No. 22551. Eight miles south of Tzitzio, Michoacan. Montanva thicket; oakes, *Leucaena*, *Acacia*, *Caesalpinia cacalaco*, *Gouania*. Small population; pods and seeds larger than average, mostly gray.
325692. PHASEOLUS sp.
Col. No. 22562. Twelve miles southeast of Esquinapa, Sinaloa. Elevation 500 feet. Annual vine, small, dry, in lowland woods on volcanic slope.
325693. VICIA sp. Leguminosae.
Col. No. 22449. 'Trabul'. Market in Zacapoaxtla, Puebla. Elevation 5,900 feet. Cultivated locally for forage.
325694. VIGNA SINENSIS (Torner) Savi Leguminosae. Common cowpea.
Col. No. 22513. 'Frijol garbanso'. Etna, Oaxaca. Elevation 5,300 feet. Seed small, light grayish, dark eye.

325695 to 325776.

From the United States. Seed presented by J. F. Kelly, Campbell Institute for Agricultural Research, Riverton, N. J. Received Feb. 14, 1968.

- 325695 to 325698. CAJANUS CAJAN (L.) Millsp. Leguminosae. Pigeon-pea.
325695. No. 159. Pois congo. Origin Plaine Cul de Sac.
325696. No. 160. Pois congo. Origin Cap Haitien.
325697. No. 161. Pois congo. Origin Petite Riviere Artibonite.
325698. No. 162. Pois congo. Origin Les Cayes.
- 325699 to 325701. DOLICHOS LABLAB L. Leguminosae. Hyacinth-bean.
325699. No. 156. Pois boucoussou. Origin Les Cayes.
325700. No. 157. Pois nourrice. Origin Plaine Cul de Sac.
325701. No. 158. Pois nourrice. Origin Les Cayes.
- 325702 and 325703. PHASEOLUS LUNATUS L. Leguminosae. Lima bean.
From Haiti.
325702. No. 150. Pois souche. Origin Les Cayes.
325703. No. 151. Pois souche. Origin Artibonite.

325695 to 325776—Continued

325704 to 325772. PHASEOLUS VULGARIS L.
From Mexico.

Common bean.

325704. No. 81. 'Actopan'.
325705. No. 82. 'AGS 466'.
325706. No. 83. 'Amarillo 153'.
325707. No. 84. 'Amarillo 154'.
325708. No. 85. 'Amarillo 155'.
325709. No. 86. 'Amarillo 156'.
325710. No. 87. 'Amarillo 169'.
325711. No. 88. 'Antiqua'.
325712. No. 89. 'Bayo-107-3-8'.
325713. No. 90. 'Bayo-158'.
325714. No. 91. 'Bayo-159'.
325715. No. 92. 'Bayo-160'.
325716. No. 93. 'Bayo-161'.
325717. No. 94. 'Bayo-164'.
325718. No. 95. 'Bayo-167'.
325719. No. 96. 'Bayomex'.
325720. No. 97. 'Blanco 157'.
325721. No. 98. 'Canario 101'.
325722. No. 99. 'Canario 102'.
325723. No. 100. 'Canario 103'.
325724. No. 101. 'Canario 107-3'.
325725. No. 102. 'Canario 107-2-5'.
325726. No. 103. 'Canario 107-36-1'.
325727. No. 104. 'Canario 107-95-115-1-1'.
325728. No. 105. 'Canocel'.
325729. No. 106. 'Garbancillo'.
325730. No. 107. 'Jamapa'.
325731. No. 108. 'Flor de Mayo'.
325732. No. 109. 'DGO -225'.
325733. No. 110. 'DGO 664 - D 37'.
325734. No. 111. 'Negro 151'.
325735. No. 112. 'Negro Mecentrol'.
325736. No. 113. 'Negro 150'.
325737. No. 114. 'Negro 151'.
325738. No. 115. 'Negro 170'.
325739. No. 116. 'Negro 171'.
325740. No. 117. 'PUE 157-K-2'.
325741. No. 118. 'PUE 157-J'.
325742. No. 119. 'Pueblo 151'.
325743. No. 120. 'Rio Bravo'.

325695 to 325776—Continued**325704 to 325772—Continued**

325744. No. 121. 'Rosita del Bajio'.
 325745. No. 122. 'Pinto Nacional'.
 325746. No. 123. 'Var. 222'.
 325747. No. 124. 'Pinto 168'.
 325748. No. 125. 'Var. 107-24-16'.
 325749. No. 126. 'Pinto 133'.
 325750. No. 127. 'Var. 220'.
 325751. No. 128. 'Pinto 162'.
 325752. No. 129. 'Pinto 163'.
 325753. No. 130. 'Pinto 165'.
 325754. No. 131. 'Veracruz 1-A-6'.

From Haiti.

325755. No. 132. Pois blanc. Origin Cap Haitien.
 325756. No. 133. Pois blanc. Origin Artibonite.
 325757. No. 134. Pois blanc. Origin Les Cayes.
 325758. No. 135. Pois blanc. Plaine Cul de Sac.
 325759. No. 136. Pois rouge. Artibonite.
 325760. No. 137. Pois rouge. Cap Haitien.
 325761. No. 138. Pois rouge. Plaine Cul de Sac.
 325762. No. 139. Pois rouge. Les Cayes.
 325763. No. 140. Pois valet. Plaine Cul de Sac.
 325764. No. 141. Pois buerre. Artibonite.
 325765. No. 142. Pois buerre. Cap Haitien.
 325766. No. 143. Pois buerre. Les Cayes.
 325767. No. 144. Pois buerre. Plaine Cul de Sac.
 325768. No. 145. Pois buerre. Les Cayes.
 325769. No. 146. Pois noir. Les Cayes.
 325770. No. 147. Pois noir. Rio Artibonite.
 325771. No. 148. Pois noir. Cap Haitien Nord.
 325772. No. 149. Pois noir. Plaine Cul de Sac.

325773 to 325776. VIGNA SINENSIS (Torner) Savi Leguminosae.
 Common cowpea.

From Haiti.

325773. No. 152. Pois inconnu. Cap Haitien.
 325774. No. 153. Pois inconnu. Artibonite.
 325775. No. 154. Pois inconnu. Les Cayes.
 325776. No. 155. Pois inconnu. Cap Haitien.

325777. VITIS VINIFERA L. Vitaceae. **European grape.**

From Iran. Cuttings presented by Messrs. K. W. P. A., Khorramshahr. Received Feb. 15, 1968.

'Yaghoati'.

325778. JARILLA CHOCOLA Standley Caricaceae.

From Mexico. Fruits collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Feb. 6, 1968.

Col. No. 22563. Local name Chocola. San Bernardo, Sonora. Short-tree forest. Elevation 600 to 1,000 feet. Perennial forest herb.

325779. GLYCINE MAX (L.) Merr. Leguminosae. Soybean.

From El Salvador. Seeds presented by Agricultural Experiment Station, Santa Tecla, through R. W. Howell, Oilseed and Industrial Crops Research Branch, Beltsville, Md. Received Feb. 16, 1968.

'Lucerna'.

325780 to 325794. GOSSYPIUM HIRSUTUM L. Malvaceae. Upland cotton.

From Venezuela. Seeds collected by D. H. Timothy. Department of Crop Science. North Carolina State University, Raleigh, North Carolina. Received Feb. 16, 1968.

From Monagas.

325780. Col. No. 208. Along Rio Manzanares, 10 km. south of Cumana.

325781. Col. No. 209. Along road 20 km. north of Cumanacoa.

325782. Col. No. 210. Along road from Cumana to Cumanacoa entering Arenas by bridge over Manzanares River.

325783. Col. No. 214. Along road from Quirequire to Caripito at Km. 12.

325784. Col. No. 215. Along road from Quirequire to Carupano north of Caripito, Km. 12.

From Sucre, Guiria.

325785. Col. No. 216. Along beach, south edge of town.

325786. Col. No. 217. Along beach, south edge of town.

325787. Col. No. 222. Along beach, south edge of town.

Behind beach coconuts, south edge of town.

325788. Col. No. 218.

325789. Col. No. 219.

325790. Col. No. 220.

325791. Col. No. 221.

325792. Col. No. 224.

325793. Col. No. 225.

325794. Col. No. 226. Foothills dooryard between Guiria and Rio Salado.

325795 to 325797. VITIS VINIFERA L. Vitaceae. European grape.

From Italy. Cuttings presented by the Instituto di Patologia Vegetale, Bari. Received Feb. 19, 1968.

325795. 'Primitivo di Gioia No. 2'.

325796. 'Primitivo di Gioia No. 473'.

325797. 'Primitivo di Gioia No. 480'.

325798 to 325802. PUNICA GRANATUM L. Punicaceae. Pomegranate.

From Sicily. Scions presented by the Università Degli Studi di Catania, Istituto di Coltivazioni Arboree, Catania. Received Feb. 20, 1968.

325798 to 325802—Continued

325798. 'Commune Dolce'.
 325799. 'Dente di Cavallo Coccio-Duro'.
 325800. 'Dente di Cavallo Coddio-Tenero'.
 325801. 'Dente di Cavallo Motta S. Anastasia'.
 325802. 'Dente di Cavallo Tipica'.

325803 to 325810.

From Colombia. Plants collected by D. H. Timothy, North Carolina State University, Raleigh, North Carolina. Received Feb. 21, 1968.

325803 to 325805. *TRIPSACUM LAXUM* Nash Gramineae.

325803. Col. No. 264. Guaduas to Villeta, Cundinamarca, 4 km. Elevation 1,300 to 1,500 m.

325804. Col. No. 265. Between La Virginia and Anserma, Caldas. Elevation 1,200 m.

325805. Col. No. 269. North of Medellin to Santa Rosa de Osos, Antioquia, 36 km. Elevation 1,400 m.

325806. *TRIPSACUM* sp.

Col. No. 260. Below bridge on Rio Dulce between Villeta and Sasaima, Cundinamarca. Elevation 1,200 m.

325807. *TRIPSACUM* sp.

Col. No. 261. Below Rio Dulce bridge, between Villeta and Sasaima, Cundinamarca, 1 km. Elevation 1,000 to 1,200 m.

325808. *TRIPSACUM* sp.

Col. No. 262. Below Rio Dulce bridge, between Villeta and Sasaima, Cundinamarca, 2 km.

325809. *TRIPSACUM* sp.

Col. No. 263. Villeta to Honda, Cundinamarca, 3 km. Elevation 1,100 to 1,200 m.

325810. *TRIPSACUM* sp.

Col. No. 270. Viota to Tocaima, Rancho Tomarindo, Cundinamarca. Elevation 600 m.

325811 to 325819. ZEA MAYS L. Gramineae.**Corn.**

From Kenya. Seeds presented by the Maize Research Section, National Agricultural Research Station, Kitale. Received Feb. 23, 1968.

325811. 'Ecuador 573 Co.'.
 325812. 'Katumani V'.
 325813. 'Katumani VI'.
 325814. 'Ilonga Composite A'.
 325815. 'Kitale Composite C 1'.
 325816. 'Kitale Composite E (66)'.
 325817. 'Kitale II Co.'.
 325818. 'Uguriguru Composite A (66)'.
 325819. 'Zambia Composite I'.

325820 to 325831. ORYZA SATIVA L. Gramineae.**Rice.**

From Thailand. Seeds presented by Food and Agriculture Organization of the United Nations, Regional office for Asia and the Far East, Maliwan Mansion, PHRA Atit Road, Bangkok. Received Feb. 23, 1968.

325820 to 325831—Continued

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| 325820. 'Bin Ta-pan'. | 325826. 'Leuang Nawy - 2 - 7'. |
| 325821. 'Khao Khao'. | 325827. 'Leuang Rawng'. |
| 325822. 'Khao Leuang'. | 325828. 'Leuang Sai'. |
| 325823. 'Khao Sa-Ahd'. | 325829. 'Leuang Tah-nen'. |
| 325824. 'Khao Sad-lah-yah'. | 325830. 'Leuang Tawng'. |
| 325825. 'Leuang Kha-min'. | 325831. 'Sapan Kwai'. |

325832 to 325837. ORYZA SATIVA L. Gramineae. Rice.

From the Philippines. Seeds presented by T. T. Chang, International Rice Research Institute, Los Banos, Laguna. Originally from S. Wanegasekara, Pleasant Valley Farm, Matara, Ceylon. Received Feb. 23, 1968.

325832. IRI88-4.
 325833. 'IRI88-4-1.
 325834. IRI88-12-3.
 325835. IRI88-40-3-3-2.
 325836. IRI88-40-6-1.
 325837. 'Danahal'. Maturity 75 days.

325838 and 325839.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Feb. 14, 1968.

325838. PHASEOLUS VULGARIS L. Leguminosae. Common bean.
 Col. No. 22337. Small, black, pearl gray. Grown on mountain west of Shilac.

325839. GOSSYPIUM PALMERI Watt Malvaceae. Cotton.
 Col. No. 22548. Huetama, Michoacan. Elevation 600 feet. Shrub cultivated in cottage yard. Leaves dissected almost to base in 3 to 5 narrow lanceolate lobes.

325840. VICIA MONANTHA Retz. Leguminosae.

From the United States. Plants grown at Soil Conservation Service, National Plant Materials Center, Beltsville, Maryland. Received Feb. 26, 1968.

Component of P.I. 314155. Flowers red; peduncle long.

325841. GOSSYPIUM STURTIANUM J. H. Willis Malvaceae.

From Australia. Seeds presented by J. D. Hesketh, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Feb. 26, 1968.

Collected south of Wellington.

325842. TRITICUM AESTIVUM L. Gramineae. Wheat.

From England. Seeds presented by Plant Breeding Institute, Cambridge. Received Feb. 26, 1968.

'Compair'. CS/C × S.

325843 to 325845. TRITICUM AESTIVUM L. Gramineae.

Common wheat.

From Japan. Seeds presented by K. Kawai, Research Coordination Section, Agriculture, Forestry and Fisheries Research Council, Kasumigaseki, Chiyoda-ku, Tokyo. Received Feb. 26, 1968.

325843. 'Aka-daruma'.

325843 to 325845—Continued

325844. 'Fultz-daruma'.

325845. 'Shiro-daruma'.

325846 to 325852.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Feb. 26, 1968.

325846. *TRITICUM AESTIVUM* L. Gramineae. Common wheat.
K-54.

325847 to 325852. *TRITICUM DURUM* Desf. Durum wheat.

325847. Arnej-624. 325850. P.W.-3.

325848. N.I. 179. 325851. P.W.-5.

325849. N.I. 284-S. 325852. P.W.-12.

325853 to 325866.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received Feb. 27, 1968.

325853 to 325855. *MALUS TURKMENORUM* Juzepczuk & Popv. Rosaceae.
From Turkmenistan.

325853. 'Babarabka Juvan'.

325854. 'Babarabka Tursi'.

325855. No varietal name.

325856 to 325861. *PRUNUS AMYGDALUS* Batsch Rosaceae. Almond.
From Turkmenistan.

325856. 'Ajderinsky 114'. 325859. 'Ajderinsky 149'.

325857. 'Ajderinsky 144'. 325860. 'Ajderinsky 157'.

325858. 'Ajderinsky 147'. 325861. 'Karakalinsky 35'.

325862. *PYRUS BETULAEFOLIA* Bunge Rosaceae. Birchleaf pear.
From Turkmenistan.

325863. *PYRUS BOISSIERIANA* Boiss. & Buhse
From Turkmenistan.

325864. *PYRUS CALLERYANA* Decaisne. Callery pear.
From Turkmenistan.

325865. *PYRUS PYRIFOLIA* (Burm.) Nakai Late pear.
From Turkmenistan.

325866. *PYRUS SALICIFOLIA* Pall. Willow-leaved pear.
From Turkmenistan.

325867 and 325868.

From Uruguay. Seeds collected by Facultad de Agronomía, Laboratorio de Botanica, Montevideo, under P.L. 480 Project S9-CR-3. Received Feb. 27, 1968.

325867. *APIUM LEPTOPHYLLUM* F. Muell. ex Benth. Umbelliferae.

Ur 44799. Balneario Kiyó, Department San José. Annual, low, erect; stems ascending; umbels sessile in upper leaf axils. Fruiting in March in Uruguay, which corresponds approximately to September in the United States.

325867 and 325868—Continued

325868. *ERYNGIUM* cf. *ELEGANS* Cham. & Schlecht. Umbelliferae.

Ur 47334. Santa Teresa, Departamento Rocha. Perennial herb, to 1 m. high; fruits abundant. Collected in March in Uruguay, which corresponds approximately to September in the United States.

325869. FOENICULUM PIPERITUM Sweet Umbelliferae.

From Spain. Seeds presented by Ministerio de Agricultura, Instituto Nacional de Investigaciones Agronomicas, Madrid, under P.L. 480 Project E25-R-11. Received Feb. 27, 1968.

Sp 46662. 'Carosella' or Italian Fennel'. Perennial, shortlived, cultivated as annual or biennial, to 1 m. high; umbels large. Considered a variety of *F. vulgare*. Native of southern Europe.

325870 to 325872.

From Yugoslavia. Seeds collected by Vinko Sadar, Biotehmiska Fakulteta, Ljubljana, under P.L. 480 Project E30-CR-2. Received Feb. 27, 1968.

325870. *ANETHUM GRAVEOLENS* L. Umbelliferae.

Dill.

Yu 45264.

325871. *BIFORA RADIANS* Bieb. Umbelliferae.

Yu 45733. Annual herb, to 3 dm. high; umbel with 5 to 7 rays; umbellets several flowered. Cultivated fields. Southern Europe, western Asia, and Algeria. May to June.

325872. *BIFORA TESTICULATA* (L.) C. Spreng.

Yu 45792. Annual, erect, to 5 dm. high; branching from base; umbel 2 to 3 rayed; umbellets 2 to 6 flowers; fertile. Grainfields. Southern Europe and northern Africa. April to June.

325873. PETROSELINUM CRISPUM (Mill.) Nym. Umbelliferae.

Parsley.

From the United States. Seeds purchased from Kelly Seed Company, Peoria, Ill. Received Feb. 27, 1968.

NU 71065. Herb, erect, much-branched biennial or short-lived perennial, 3 to 10 dm. high. Cultivated. Native of Europe and Mediterranean region.

325874. SYNELCOSCIADIUM CARMELII Boiss. Umbelliferae.

From Israel. Seeds presented by Plant Introduction Service, The National and University Institute of Agriculture, Rehovot, under P.L. 480 Project A10-CR-63. Received Feb. 27, 1968.

Is 42106. Annual herb, erect, dichotomously branched, 1 to 2 m. high; inflorescence of unequally rayed umbels, contracted in fruit. Thickets. Spring.

325875 and 325876.

From Turkey. Seeds collected by Osman Tosun, Department of Agronomy, University of Ankara, Ankara, under P.L. 480 Project A22-CR-1. Received Feb. 27, 1968.

325875. *AMMI MAJUS* L. Umbelliferae.

Tu 43216.

325876. *TORDYLIUM AEGYPTIACUM* Lam. Umbelliferae.

Tu 44602. Annual herb, erect; dichotomously branched from base. Fields. Israel, Turkey. March to April.

325877. TRITICUM AESTIVUM L. Gramineae. Common wheat.

From Germany. Seeds presented by Heine-Peragis Getreidezucht, Einbeck.
Received Feb. 27, 1968.

'Heine VII'.

325878. DELABREA LONGICARPA R. Viguier Araliaceae.

From France. Plants presented by Jardin Botanique "Les Cedres" Saint-Jean-Cap-Ferrat, France. Received Feb. 29, 1968.

325879 to 325882. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From the Philippines. Seeds presented by the Department of Agriculture and Natural Resources, Manila. Received Feb. 29, 1968.

325879. 'Gapan Native'. Naturalized in Gapan, Nueva Ecija Province. Plant indeterminate, branches to 1 m. Fruits medium, round, 3 lobes, fair quality, productive. Wet season variety.

325880. 'Improved Harbot'. ('Pearl Harbor' × 'Botbotones' (wild cherry type)). Plant semideterminate. Fruit 1 to 2 inches diameter, round, clustered, high yield. Wet season variety.

325881. 'Susong Kalabaw'. Naturalized in highlands of Cavite and Batangas Provinces, Luzon. Plant indeterminate. Fruit 1 inch diameter by 1 to 1.5 inches long, clustered at internodes. Wet season variety.

325882. 'Talavera Native'. Naturalized in Talavera, Nueva Ecija Province, Luzon. Plant determinate, vigorous, to 2 feet high. Fruit flat oval with several lobes, productive. Dry season variety.

325883 to 325920. ORYZA SATIVA L. Gramineae. Rice.

From the Philippines. Seeds presented by the International Rice Research Institute, Manila. Received Feb. 29, 1968.

325883. IR5-177-2-2-2, Peta × T. Rotan.

325884. IR8-279-2-2-3, Peta × Dgwg.

325885. IR8-288-3-40, Peta × Dgwg.

325886. IR8-288-3-41-1, Peta × Dgwg.

325887. IR8-288-3-68, Peta × Dgwg.

325888. IR11-288-3-1-2, FB 24 × Dgwg.

325889. IR11-452-1-1, FB 24 × Dgwg.

325890. IR39-14, Peta × T(N)1.

325891. IR39-19, Peta × T(N)1.

325892. IR76-154-1-2, BPI-76 × T. 176.

325893. IR84-82-3-4-3, Peta × P.I. 215936.

325894. IR95-42-11-2-2, Peta/2 × T(N)1.

325895. IR95-43-2-4, Peta/2 × T(N)1.

325896. IR127-2-2-19, (CP-231 × SLO-17) × Sigadis.

325897. IR140-136-2, (CP 231 × SLO-17) × Mas.

325898. IR140-165, (CP 231 × SLO-17) × Mas.

325899. IR154-33-1-3, (CP 231 × SLO-17) × T(N)1.

325900. IR154-43-1-2, (CP-SLO-17) × T(N)1.

325901. IR154-45-1-2, (CP 231 × SLO-17) × T(N)1.

325902. IR154-61-1-1 (CP 231 × SLO-17) × T(N)1.

325883 to 325920—Continued

325903. IR154-66-2, (CP-SLO-17) × T(N)1.
 325904. IR154-77-2-1, (CP-SLO-17) × T(N)1.
 325905. IR154-83-1, (CP-SLO-17) × T(N)1.
 325906. IR154-123-1-1, (CP 231 × SLO-17) × T(N)1.
 325907. IR157-61-3-3, L. Yai 34 × T(N)1.
 325908. IR198-27-3-1, (CP 231 × SLO-17) × P.I. 215936.
 325909. IR237-20-1 (CP 231 × SLO-17) × Louang Tai 34.
 325910. IR238-3-2, (CP 231 × SLO-17) × Nahng Mon S-4.
 325911. IR253-16-1-2, Gam Pai/2 × T(N)1.
 325912. IR262-7-1-1-2, Peta/3 × T(N)1.
 325913. IR268-48-2-1, CI 9545/2 × Sigadis.
 325914. IR276-47-10, B581A6-545/2 × Mas.
 325915. IR277-7-2-3-1, B581A6-545/2 × Mas.
 325916. IR8-288-3-40, Peta × Dgwg.
 325917. IR298-12-1-2, BPI-76 × (CP 231 × SLO-17) × Peta.
 325918. IR400-5-12-10-2, Peta/4 × T(N)1.
 325919. PB-76-66D-63.
 325920. PB-76-66D-98.

325921 to 325923. LYCOPERSCON ESCULENTUM Mill. Solanaceae. Tomato.

From the Republic of South Africa. Seeds presented by Plant Introduction Officer, Department of Agricultural Technical Services, Pretoria. Received Mar. 4, 1968.

325921. 'Homestead Tuinbou'.
 325922. 'Red Kaki'.
 325923. 'Roodepoot Premier'.

325924. COIX LACRYMA-JOBI L. Gramineae. Jobs-tears.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Mar. 4, 1968.

Originally collected in Maharashtra State.

325925 to 325932.

From Japan. Seeds presented by Muneo Iizuka, Horticultural Research Station, Ministry of Agriculture and Forestry, Hiratsuka, Kanagawa. Received Mar. 4, 1968.

325925. ACTINIDIA ARGUTA (Sieb. & Zucc.) Miq. Dilleniaceae. **Bower actinidia.**

325926 to 325932. PYRUS CALLERYANA Decaisne Rosaceae. Callery pear.

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| 325926. Vo 17. | 325930. Vo 29. |
| 325927. Vo 26. | 325931. Vo 31. |
| 325928. Vo 27. | 325932. Vo 32. |
| 325929. Vo 28. | |

325933 and 325934. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb.
ex M. B. Moss Gramineae.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Mar. 4, 1968.

325933. C.P.I. 33452.

325934. C.P.I. 33453. From Beerwah.

325935 and 325936. *SAMBUCUS CHINENSIS* Lindley Caprifoliaceae.

From Japan. Seeds presented by Hideo Mori, Morioka Branch, Horticultural Research Station, Ministry of Agriculture and Forestry, Shimokuriyagawa, Morioka. Received Mar. 4, 1968.

325935. Morioka City, Iwate prefecture.

325936. Kawasaki village, Higashiiwai-gun, Iwate prefecture.

325937 and 325938. *IPOMOEA BATATAS* (L.) Lam. Convolvulaceae. **Sweetpotato.**

From Japan. Roots presented by Yoshiharu Nagano, Chugoku Agricultural Experiment Station, Fukuyama, Hiroshima. Received Dec. 29, 1967. Numbered Mar. 4, 1968.

325937. 'Chugoku 23'.

325938. 'Chugoku 25'.

325939. *HIBISCUS CANNABINUS* L. Malvaceae. **Kenaf.**

From Ghana. Seeds presented by S. Y. Amanquah, Academy of Sciences, Crops Research Institute, Kumasi, through F. Douglas Wilson, Department of Soil and Crop Sciences, College Station, Texas. Received Mar. 4, 1968.

325940 to 325942.

From England. Scions presented by J. W. Archer, Coombe Edge, Windlesham, Surrey. Numbered Mar. 4, 1968.

325940. *CHAMAECYPARIS LAWSONIANA* (Murray) Parl. Pinaceae. **Lawson cypress.**

'Stilton Cheese'.

325941. *CHAMAECYPARIS OBTUSA* (Sieb. & Zucc.) Endl. **Hinoki cypress.**
'White tip'.

325942. *CHAMAECYPARIS PISIFERA* (Sieb. & Zucc.) Endl. **Sawara retinospora.**

'Tsukuma'.

325943 and 325944.

From Venezuela. Seeds collected by D. H. Timothy, Department of Crop Science, North Carolina State University, Raleigh, North Carolina. Received Mar. 4, 1968.

325943. *ARACHIS HYPOGAEA* L. Leguminosae.

Col. No. 213. 'Mani'. Monagas. Market in Quirequire. Cultivated in area of Maturin and Quirequire.

325944. *TRIPSACUM LAXUM* Nash Gramineae. **Guatemala gamagrass.**

Col. No. 211. Monagas. Fifteen km. from Caripe in banana patch by road to San Augustine. Elevation 1,200 m.

325945 to 325983. PENNISETUM TYPHOIDES (Burm. f.) Stapf & C. E. Hubbard Gramineae.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Mar. 4, 1968.

325945. I.P. 52.	325965. I.P. 1955.
325946. I.P. 174.	325966. I.P. 1960.
325947. I.P. 272.	325967. I.P. 1966.
325948. I.P. 288.	325968. I.P. 1973.
325949. I.P. 370.	325969. I.P. 1975.
325950. I.P. 520.	325970. I.P. 1986.
325951. I.P. 521.	325971. I.P. 1990.
325952. I.P. 529.	325972. I.P. 2005.
325953. I.P. 543.	325973. I.P. 2010.
325954. I.P. 850.	325974. I.P. 2042.
325955. I.P. 897.	325975. I.P. 2057.
325956. I.P. 919.	325976. I.P. 2077.
325957. I.P. 934.	325977. I.P. 2079.
325958. I.P. 938.	325978. I.P. 2080.
325959. I.P. 944.	325979. I.P. 2082.
325960. I.P. 1932.	325980. I.P. 2093.
325961. I.P. 1933.	325981. I.P. 2121.
325962. I.P. 1934.	325982. I.P. 2124.
325963. I.P. 1936.	325983. I.P. 2160.
325964. I.P. 1938.	

325984 to 326015. DAUCUS CAROTA L. Umbelliferae. Carrot.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received Mar. 4, 1968.

Krasnoyarsk Territory.

325984. K-1569. Local strain.
325985. K-1582. Local strain.

Lithuania.

325986. K-1642. Local strain.
325987. K-1645. Local strain.
325988. K-1653. Local strain.

Moscow Region.

325989. K-1296. 'Nantskaja 4'.
325990. K-1307. 'Gribovskaja 514'.
325991. K-1308. 'Valeria 5'.
325992. K-1467. 'Moskovskaja Zimniaja A-515'.
325993. K-1603. 'Parizskaja (Parisian) Karotel 443'.
325994. K-2017. 'Losinoostrovskaja 13'.

Ukraine.

325995. K-1439. 'Shantene skvirskoe'.
325996. K-1528. 'Nesravnennaja'.

325984 to 326015—Continued

325997. K-1706. Local strain.
 325998. K-1707. Local strain.
 325999. K-1709. 'Nantskaja Harkovskaja'.
 326000. K-1834. 'Nantskaja 14'.
 326001. K-1929. 'Gavrilovskaja'.
 326002. K-1934. 'Biriucekutskaja 415'.
 Western Siberia.
 326003. K-1285. 'Shantene 2461'.
 326004. K-1596. 'Altajskaja ukorocennaja'.
 326005. K-1370. 'Hibinskaja'. Murmansk Region.
 326006. K-1384. 'Geranda'. Voronez Region.
 326007. K-1531. 'Leningradskaja'. Leningrad Region.
 326008. K-1605. 'Aramilskaja'. Sverdlovsk Region.
 326009. K-1613. 'Mirzoi Krasnaia (red) 228'. Uzbekistan.
 326010. K-1623. 'Msaki surh'. Tadjikistan.
 326011. K-1650. 'Tushon'. Lithuania.
 326012. K-1685. 'Nantskaja Goryskaja'. Georgia.
 326013. K-1932. 'Sibirskaja Krasnaja'. Omsk Region.
 326014. K-1936. 'Leninakanskaja'. Armenia.
 326015. K-2045. 'Korsunskaja uluchshennaja (improved) M-15'. Ulyanovsk Region.

326016 to 326022. SOLANUM TUBEROSUM L. Solanaceae. Potato.

From Mexico. Tubers presented by the Instituto Nacional de Investigaciones Agricolas, Chapingo. Received Mar. 4, 1968.

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| 326016. 'Anita'. | 326020. 'Gabriela'. |
| 326017. 'Conchita'. | 326021. 'Juanita'. |
| 326018. 'Elenita'. | 326022. 'Sangima'. |
| 326019. 'Florita'. | |

326023 to 326025. HIBISCUS CANNABINUS L. Malvaceae. Kenaf.

From the Republic of South Africa. Seeds purchased from the Gunson Seeds South Africa Ltd., Johannesburg. Received Mar. 4, 1968.

326023. GR.25/63.
 326024. SH/15R.
 326025. ST/11760.

326026 to 326028. ORYZA SATIVA L. Gramineae. Rice.

From Korea. Seeds presented by Kyun Ok Choi, Crop Experiment Station, Suwon. Received Mar. 5, 1968.

326026. 'Nongkwang'.
 326027. 'Sukwang'.
 326028. 'Yongkwang'.

326029 to 326033. ORYZA SATIVA L. Gramineae. Rice.

From Iraq. Seeds presented by C. L. Pan, Food and Agriculture Organization of the United Nations, Baghdad. Received Mar. 5, 1968.

326029. 'Amber 33'. Indica type. Long season, pure line selection. Extremely fine grain, cooking variety; very tall, lodges 2 weeks before harvest; very high yielding.

326030. 'Bazian 14'. Japonica type. Medium season, grown in northern Iraq. Straw short; very susceptible to blast; quality good. Adaptable to irrigation.

326031. 'Choul'. Indica type. Medium season, new variety, high yielding. High response to heavy fertilization.

326032. 'Ghraiba 52'. Indica type. Short season, April to September; very high yielding. Cooking quality less promising than 'Amber 33' (P.I. 326029).

326033. 'Nayima 45'. Indica type. Short season, April to September; improved variety; straw short; resistant to lodging.

326034. TEPHROSIA sp. Leguminosae.

From Kenya. Seeds collected by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Mar. 6, 1968.

326035 to 326046.

From Japan. Seeds presented by Y. Tachibana, Botanical Garden of Osaka City University, Katano-cho, Kitakawachigun, Osaka Prefecture. Numbered Mar. 6, 1968.

326035. *HIBISCADELPHUS HUALALAIENSIS* Rock Malvaceae.

326036. *HIBISCUS CISPLATINUS* St. Hil. Malvaceae.

326037. *HIBISCUS CLAYII* Degener & I. Degener.

326038. *HIBISCUS DENISONII* Hort.

326039. *HIBISCUS HAMABO* Sieb. & Zucc.

326040. *HIBISCUS LUDWIGHI* Eckl. & Zeyh.

326041. *HIBISCUS MUTABILIS* L.

Cotton rosemallow.

326042. *HIBISCUS PEDUNCULATUS* L. f.

326043. *HIBISCUS SYRIACUS* L.

Shrub-althea.

326044. *HIBISCUS TILIACEUS* L.

Linden hibiscus.

326045. *HIBISCUS TUBIFLORUS* Moc. & Sesse ex DC.

326046. *HIBISCUS YOUNGIANUS* Gaudich.

326047. MUSSAENDA ROXBURGHII Hook. f. Rubiaceae.

From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Numbered Mar. 6, 1968.

Originally collected in Assam State.

326048. SALVIA sp. Labiatae.

From Trinidad. Seeds collected by E. P. Imle, American Cocoa Research Institute, Washington, D. C. Numbered Mar. 6, 1968.

Col. No. 141. 'Sage'. Garden of E. R. Moll. Similar to red *Salvia*. Flowers dark purple. Originally from India.

326049. DENDROCALAMUS GIGANTEUS Munro Gramineae. **Bamboo.**

From Ceylon. Seeds presented by Central Agricultural Research Institute, Gannoruwa, Peradeniya. Numbered Mar. 6, 1968.

326050 to 326069.

From Venezuela. Seeds collected by D. H. Timothy, Department of Crop Science, North Carolina State University, Raleigh, North Carolina. Numbered Mar. 6, 1968.

326050. GOSSYPIUM sp. Malvaceae.

Col. No. 247. Tachira. Along road 8 km. from La Grita toward E. Cobre. Elevation 1,400 m.

326051. GOSSYPIUM sp.

Col. No. 251. Merida. Playa de los Bailadores. Dooryard. Elevation 1,400 m.

326052. GOSSYPIUM sp.

Col. No. 252. Merida. Along road between Tovar and Santa Cruz.

326053. GOSSYPIUM sp.

Col. No. 253. Merida. Desert area along road between Estanquez and Puente Real.

326054. PHASEOLUS ABORIGINEUS Burkart Leguminosae.

Col. No. 256. 'Ganote'. Tachira, between Rubio and Las Delicias.

326055. PHASEOLUS sp.

Col. No. 255. 'Garrota'. Merida, above La Grita. Semiwild. Reported to be an undescribed species.

326056. TRIPSACUM LAXUM Nash Gramineae. **Guatemala gamagrass.**

Col. No. 228. Sucre, north of Rio Grande de Arriba, along horse trail. From cleared farm of Victor Carreno.

326057. TRIPSACUM sp.

Col. No. 234. Trijillo. Four km. below La Puerta on road to Timotes. Both sides of road on steep, rocky hills. Elevation 1,400 m.

326058. TRIPSACUM sp.

Col. No. 238. Trijillo. Km. 5, Valera to Las Cuevas. Quebrada de los Cuevas. Hillside above river. Very large colony. Elevation 600 m.

326059. TRIPSACUM sp.

Col. No. 239. Merida. Km. 1/2, La Vigia to Mendoza, after crossing river. Both sides of road hillsides. Dense.

326060. TRIPSACUM sp.

Col. No. 240. 'Canito'. Tachira. Km. 5, La Libertad to San Antonio, El Caimita, village of Recuter. Rocky slope.

326061. TRIPSACUM sp.

Col. No. 242. Tachira. Km. 18, San Cristobal to Rubio. Small colony, 25 plants; others along road, edges of pastures and woods. Elevation 1,800 m.

326062. TRIPSACUM sp.

Col. No. 244. Tachira. Km. 11, San Cristobal to Rubio, El Cedro. Beside family garden, moist hillside, partial shade.

326050 to 326069—Continued**326063. TRIPSACUM sp.**

Col. No. 245. Tachira. Km. 13, San Cristobal to Rubio. Large colony, rocky hillside. Elevation 1,200 m.

326064. TRIPSACUM sp.

Col. No. 246. Tachira. Km. 11, La Grita to El Cobre. Valley hillsides. Elevation 1,200 m.

326065. TRIPSACUM sp.

Col. No. 248. Tachira. Three km. above bridge between La Grita and La Quinta. Steep cliff above stream; access almost impossible. Three plants. Elevation 1,400 m.

326066. TRIPSACUM sp.

Col. No. 249. Tachira. Km. 5, La Grita to Serobuco. Cliff walls of partially shaded rocky quebrada. Fifty plants.

326067. TRIPSACUM sp.

Col. No. 254. Merida between Ejido and Parroquia. Large colony. Dry steep road cut.

326068. TRIPSACUM sp.

Col. No. 257. Barinas. About 5 km. above Barinitas. Wet bank along shady side of road. Elevation 900 m.

326069. TRIPSACUM sp.

Col. No. 258. Lara. Near Km. 20, Barquisimeto to Acariqua. Hillside and dry creek bank. Small population, rare. Elevation 500 m.

326070. CYDONIA OBLONGA Mill. Rosaceae.**Quince.**

From England. Graftsticks presented by the East Malling Research Station, Madistone, Kent. Received Mar. 6, 1968.

Clone No. 293. (P14B/6/53).

326071 to 326087.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Numbered Mar. 7, 1968.

326071. ACTINIDIA KOLOMIKTA (Maxim.) Rupr. ex Maxim.

Dilleniaceae.

Kolomikta.**326072. ACTINIDIA POLYGAMA (Sieb. & Zucc.) Maxim.****Silvervine.****326073. MALUS ORIENTALIS Uglitzk. ex Juzepczuk****326074. PRUNUS CERASIFERA Ehrh. Rosaceae.****326075. PRUNUS SPINOSA L.****Blackthorn.****326076. PYRUS BETULAEFOLIA Eunge Rosaceae.****Birchleaf pear.****326077. PYRUS BRETSCHNEIDERI Rehd.****Bretschneider pear.****326078. PYRUS CALLERYANA Decaisne****Callery pear.****326079. PYRUS CAUCASICA Fed.****326080. PYRUS ELAEAGRIFOLIA Pall.****326081. PYRUS NIVALIS Jacq.****326082. PYRUS PHAEOCARPA Rehd.****Dusky pear.****326083. PYRUS PYRIFOLIA (Burm.) Nakai****Late pear.****326084. PYRUS USSURIENSIS var. HONDOENSIS (Kikuchi & Nakai) Rehd.****326085. PYRUS USSURIENSIS var. OVOIDEA Rehd.**

326071 to 326087—Continued326086. *PYRUS UYEMATSUANA* Makino326087. *PYRUS* sp.**326088 and 326089.**

From Kenya. Seeds collected by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Mar. 7, 1968.

326088. *DOMBEYA* sp. Sterculiaceae.

Col. No. 9331. In scrub, 1.3 miles east of Ngoina Tea Estate, Nyanya Province, Kericho District.

326089. *DOMBEYA* sp.

Col. No. 9490. Kakamega Forest, 3.2 miles east southeast of Kisieni, Nyanya Province, North Nyanya District.

326090 and 326091.

From the United States. Seeds grown in 1967 at United States Plant Introduction Station, Glenn Dale, Maryland. Numbered Mar. 7, 1968.

326090. *PHASEOLUS ABORIGINEUS* Burkart Leguminosae.

No. So 375. Original seed collected by Arturo Burkart, Instituto Botanico Darwinion, Buenos Aires, Argentina and received through Wilhelm Rudolf, Max-Planck Institute, Koln-Vogelsang, Germany, and Lawrence Kaplan, University of Massachusetts, Boston, Massachusetts.

326091. *PHASEOLUS VULGARIS* L.**Common bean.**

Col. No. 22184. Original seed collected in 1966 by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Colima-Jalisco border near Tonila. Elevation 3,700 feet. Volcanic canyon, brushy slope. Small, slender vine climbing on shrubbery. Flowers lavender.

326092 to 326135. *PHASEOLUS VULGARIS* L. Leguminosae.**Common bean.**

From Honduras. Seeds collected in 1965 by H. S. Gentry, agricultural explorer, New Crops Research Branch, Plant Industry Station, Beltsville, Maryland. Increased by Escuela Agricola Panamericana, Zamarana in 1966. Numbered Mar. 7, 1968.

Department of Santa Barbara.

326092. Col. No. 20731. Local name Frijol Chile Retinto. Quimistan. Elevation 2,000 feet. Dark red.

326093. Col. No. 20732. Azacaulpa. Elevation 2,000 feet. Dark red.

326094. Col. No. 20733. Sula. Elevation 2,000 feet. Dark red.

Market in Florida, Department of Copan. Elevation 2,000 feet.

326095. Col. No. 20734. Small, light red.

326096. Col. No. 20735. Black.

326097. Col. No. 20736. Local name Frijol Retinto. Dark red.

326098. Col. No. 20737. Dark red.

326099. Col. No. 20738. Black. Common.

326100. Col. No. 20739. Black. Common.

Market in San Antonio, Department of Copan. Elevation 2,500 feet.

326101. Col. No. 20740. Local name Frijol Retinto. Small, dark red.

326092 to 326135—Continued

326102. Col. No. 20741. Local name Frijol Negro. Small, black.
 326103. Col. No. 20742. Local name Frijol Retinto. Dark red.
 Market in San Jeronimo, Department of Copan. Elevation 3,000 feet.
 326104. Col. No. 20743. Local name Frijol Estica. Dark red.
 326105. Col. No. 20744. Local name Frijol Negro Guiano. Small, black.
 326106. Col. No. 20745. Local name Frijol Blanco de Verdura. White,
 eaten as green pods.
 326107. Col. No. 20746. Local name Frijol Rojo Retinto. Dark red.
 326108. Col. No. 20747. Local name Frijol Vaina Blanca. Pods white
 with black seeds.

Market in Copan, Department of Copan. Elevation 1,800 feet.

326109. Col. No. 20750. Local name Frijol Retinto. Mixed, dark reddish.
 326110. Col. No. 20751. Local name Frijol Vaina Blanca. Seeds black.
 Common.

326111. Col. No. 20752. Local name Frijol Blanco. White.
 326112. Col. No. 20753. Local name Frijol Negro. Black. Common.

Market in Santa Rita, Department of Copan. Elevation 2,000 feet.

326113. Col. No. 20754. Local name Frijol Negro. Black. Common.
 326114. Col. No. 20755. Local name Frijol Negro.
 326115. Col. No. 20756. Local name Frijol Blanco. White. Common.
 326116. Col. No. 20759. Local name Frijol Negro. Between Santa Rita
 and Jeronimo by Rio Amarillo. Elevation 2,600 feet. Small, bush type,
 maturing in field, mixed, some runners, pods whitish, some purple. In-
 fected with fungus, virus, and insects.

Market in Santa Rosa de Copan, Department of Copan. Elevation 3,600
 feet.

326117. Col. No. 20763. Local name Frijol Retinto Revuelta. Mixed,
 mostly dark red.
 326118. Col. No. 20764. Local name Frijol Retinto. Dark red.
 326119. Col. No. 20765. Local name Frijol Retinto. Small, uniform,
 very dark red.
 326120. Col. No. 20766. Local name Frijol Tinto Mesclado. Mixed;
 mostly dark red.
 326121. Col. No. 20767. Local name Tineco. Uniform, small, black,
 shiny.
 326122. Col. No. 20768. Local name Frijol Blanco. White.
 326123. Col. No. 20769. Local name Frijol Negro. Black.
 326124. Col. No. 20770. Local name Frijol Retinto. Dark red.
 326125. Col. No. 20771. Local name Frijol Blanco. White.
 326126. Col. No. 20772. Local name Frijol Negro. Black.
 326127. Col. No. 20773. Local name Frijol Retinto. Dark red.

Market in Dulce Nombre, Department of Copan. Elevation 4,000 feet.
 Sedimentaries.

326128. Col. No. 20778. Local name Frijol Retinto. Dark red.
 326129. Col. No. 20779. Local name Frijol Negro. Black.
 326130. Col. No. 20781. Local name Frijol Retinto. Dark red.

326092 to 326135—Continued

326131. Col. No. 20782. Local name Frijol Tineco. Small, black, shiny.
 326132. Col. No. 20783. Local name Frijol Retinto. Dark red.
 326133. No Col. No. (Mixture). Red.
 326134. No Col. No. (Mixture). Dark red.
 326135. No Col. No. (Mixture). Black.

326136 to 326141. HIBISCUS CANNABINUS L. Malvaceae.**Kenaf.**

From Ghana. Seeds presented by S. Y. Amankwah, Crops Research Institute, Ghana Academy of Sciences, Kumasi. Received Mar. 8, 1968.

326136. 'Baag'. Tuma. 326139. 'Kpogoborni-Nyanga'. Bamboi.
 326137. 'Bagri'. Nafah. 326140. 'Nyanga'. Bamboi.
 326138. 'Bigri'. Gindakeo. 326141. 'Pia-Nyanga'. Bamboi.

326142. LAGENARIA SICERARIA (Mol.) Standl. Cucurbitaceae.

From Ethiopia. Seeds collected by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Mar. 8, 1968.

Col. No. 9601. Near Dodola Road. 15 km. east of junction with Shashe-mene-Negele Road, Arusi Province. Coarse herbaceous vine climbing over, and often nearly choking, trees and shrubs.

326143. ORYZA SATIVA L. Gramineae.**Rice.**

From the United States. Seeds grown at Regional Plant Introduction Station, Washington State University, Pullman, Wash. Received Mar. 8, 1968.

Contaminant in P.I. 255825.

326144 to 326152. TRIFOLIUM REPENS L. Leguminosae.**White clover.**

From Iran. Seeds presented by Ahmad Mokhtarzadeh, Pahlavi University, College of Agriculture, Shiraz. Received Mar. 8, 1968.

326144. W 1. Origin France. 326149. W 8. Origin Hamadan.
 326145. W 2. Origin Hamadan. 326150. W 9. Origin Natenz.
 326146. W 4. Origin Isfahan. 326151. W 20. Origin Teheran.
 326147. W 6. Origin Hamadan. 326152. W 21. Origin Isfahan.
 326148. W 7. Origin Yazd.

326153 to 326163. VIGNA SINENSIS (Torner) Savi Leguminosae.**Common cowpea.**

From Uganda. Seeds presented by P. N. Mehta, Makerere University College, Kampala. Received Mar. 8, 1968.

326153. 'Serere Local'. 326159. V.U. 9.
 326154. V.U. 1. 326160. V.U. 11.
 326155. V.U. 2. 326161. V.U. 12.
 326156. V.U. 3. 326162. V.U. 13.
 326157. V.U. 7. 326163. V.U. 14.
 326158. V.U. 8.

326164 to 326167.

From Canada. Seeds presented by Botanical Garden, University of British Columbia. Received Mar. 11, 1968.

326164. *ACER MACROPHYLLUM* Pursh Aceraceae. **Bigleaf maple.**

326165. *KALMIA ANGUSTIFOLIA* L. Ericaceae.

326166. *KALMIA LATIFOLIA* L. **Mountain-laurel.**

326167. *KALMIA POLIFOLIA* var. *MICROPHYLLA* (Hook.) Rehd.

326168 to 326173.

From the United States. Seeds presented by John W. Clark, Elkton, Maryland. Received Mar. 12, 1968.

326168 to 326172. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. **Tomato.**

326168. 'Durbot'. South Africa.

326169. 'Fengshan No. 1'. Taiwan.

326170. 'Persimmon Type'. Taiwan.

326171. 'Roodeplaat Premier'. South Africa.

326172. 'Sunneva'. South Africa.

326173. *LYCOPERSICON PERUVIANUM* (L.) Mill.

South America. Wild purple strain; fruits very small.

326174 to 326203.

From Mexico. Seeds collected by H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Numbered Mar. 13, 1968.

326174. *ANACARDIUM OCCIDENTALE* L. Anacardiaceae. **Cashew.**

Col. No. 22383. Local name Maranon. Candelario, District Pochutla, Oaxaca. Grows in Chacalapa. Elevation 1,000 feet. Trees bearing edible fruits.

326175. *BOMAREA* sp. Amaryllidaceae.

Col. No. 22566. Tepoztlan, Morelos. Elevation 6,000 feet. Perennial vine; stem turgescient. Growing on cliff in oak forest.

326176. *BURSERA FAGAROIDES* Engler Burseraceae.

Col. No. 22421. Eight miles west of San Antonio. To 4 feet high, spreading; bark greenish gray.

326177. *BURSERA GALEOTTIANA* Engler in DC.

Col. No. 22402. Along highway near Tehuitzingo, Puebla. Rocky sun slope. Elevation 4,000 feet. Tree with red trunk; leaves finely dissected; fruit small.

326178. *BURSERA SCHAFFNERI* S. Wats.

Col. No. 22370. Local name Copal. Dwarf. Six miles northeast of Telixtlahuaca, Oaxaca. Elevation 5,800 feet. Tree to 2 feet high, spreading, with massive shortly branched trunk. Ornamental for dwarf incense tree culture.

326179. *BURSERA SCHLECHTENDALII* Engl.

Col. No. 22420. Three to eight miles west of San Antonio, District of Teotitlan, Oaxaca. Elevation 2,700 feet. Thorn forest. Tree or shrub, small, spreading; bark dark or brown; leaf single.

326180. *BURSERA* sp.

Col. No. 22427. Nine miles west of San Antonio, District of Teotitlan, Oaxaca. Elevation 2,700 feet. Thorn forest. Tree, spreading; bark light gray. Common.

326174 to 326203—Continued

326181. *BURSERIA* sp.

Col. No. 22495. Toll road to Cuatla above Tepoztlan, Morelos. Elevation 6,500 feet. Tree to 19 feet high; leaf rachis winged.

326182. *CARYA* cf. *ILLINOINENSIS* (Wang.) K. Koch Juglandaceae. Pecan.

Col. No. 22384. Local name Nues de Guilapa. Candelario, District Pochutla, Oaxaca. Pecan nuts as seen in local market.

326183. *CUCURBITA* cf. *MAXIMA* Duchesne Cucurbitaceae. Squash.

Col. No. 22393. Local name Calabasa. Telixtlahuaca, Oaxaca. Elevation 5,500 feet. Fruit large, broadly ribbed, heavy, pumpkinlike.

326184 and 326185. *CUCURBITA MOSCHATA* Duchesne ex Poir Cushaw.

326184. Col. No. 22410. Market in Tepoztlan, Morelos. Elevation 5,000 feet. Cultivated for its edible seeds.

326185. Col. No. 22415. Local name Pipiana. Market in Tehuacan, Puebla. Seed large, wide dark margin; used as food in pastries and special dishes.

326186. *DATURA DISCOLOR* Bernh. Solanaceae.

Col. No. 22381. Five miles north of Pochutla, Oaxaca. Elevation 600 feet. Along roadside. Flowers white flushed, purple inside.

326187. *DESMODIUM* sp. Leguminosae.

Col. No. 22493. Cuautla exit from toll road Cuernavaca to Mexilo. Lava slope, brushy. Annual, decumbent, rooting at nodes.

326188. *ECHEVERIA* sp. Crassulaceae.

Col. No. 22392. Ayutla, District Tamazulapan, Oaxaca. Elevation 6,500 feet. Small succulent rosettes with green and yellow inflorescence.

326189. *IPOMOEA* sp. Convolvulaceae.

Col. No. 22532. Five miles northeast of Cuernavaca along toll road to Mexico. Elevation 6,400 feet. Vine dry, seeding.

326190. *IPOMOEA* sp.

Col. No. 22534. Five miles east of Iguala, Guerrero. Elevation 3,000 feet. Vine dry, seeding.

326191. *IPOMOEA* sp.

Col. No. 22552. Eight miles south of Tzitzio, Michoacan. Elevation 3,000 feet. Vine dry, hanging from tree.

326192. *LEUCAENA* sp. Leguminosae.

Col. No. 22409. Local name Huaje. Market in Tepoztlan, Morelos. Reported from Iguala, Guerrero. Seeds roasted and eaten.

326193. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

Col. No. 22335. Market in Zinocatepec, Puebla. Elevation 5,000 feet. Fruit large, crimson red, 4 to 5 segments. Old local type.

326194 to 326196. *PISUM SATIVUM* L. Leguminosae. Pea.

326194. Col. No. 22340. Market in Chilac. Grown by Indians on mountain above Teotitlan, Puebla. Elevation 7,000 feet. Dry; smooth-coated seeds.

326195. Col. No. 22435. Local name Alberjon. Market in Acatzingo, Puebla. Elevation 6,000 feet. Eaten parched or boiled. Planted following corn at tassel time, or alone.

326196. Col. No. 22442. Local name Alberjon. Market in Atlotonga, Veracruz. Elevation 6,000 feet. Cultivated.

326174 to 326203

326197. *RHYNCHOSIA* sp. Leguminosae.

Col. No. 22396. Four miles northeast of highway junction along road to Ixtlan de Juarez, Oaxaca. Elevation 5,500 feet. Perennial vine, large; flowers yellow; forming masses over shrubs.

326198. *RICINUS COMMUNIS* L. Euphorbiaceae.

Castorbean.

Col. No. 22347. San Lorenzo Alvarado, east of Mitla, Oaxaca. Elevation 6,000 feet. Shrub to 8 feet high, spreading.

326199. *TAGETES ERECTA* L. Compositae.

Aztec marigold.

Col. No. 22398. 'Tempansuchil'. Between Pochutla and Candelario, Oaxaca. Elevation 600 feet. Tropical. Annual to 4.5 feet high, showy; branches spreading, graceful; flowers variable.

326200. *TAGETES* sp.

Col. No. 22516. Etna, Oaxaca. Elevation 5,300 feet. Annual weed, small, diffuse. Along highway shoulder.

326201. *TAGETES* sp.

Col. No. 22517. Etna, Oaxaca. Elevation 5,300 feet. Annual herb. Common along roads.

326202. *TAGETES* sp.

Col. No. 22519. Twenty miles northeast of Oaxaca along road to Ixtlan de Juarez. Elevation 8,000 feet. Herb with yellow rays; aromatic—like anise or licorice.

326203. *ZINNIA MULTIFLORA* L. Compositae.

Redstar zinnia.

Col. No. 22518. Etna, Oaxaca. Elevation 5,300 feet. Annual herb to 3 feet high, slender, erect, with red rays.

326204 to 326319.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Numbered Mar. 14, 1968.

326204 and 326205. *AGROPYRON PECTINIFORME* Roem. & Schult. Gramineae.

326204. K-27328. 'Karabalykiskij 202'. Kustanaj region.

326205. K-35221. Wild. Altaj territory.

326206 to 326208. *AGROPYRON SIBERICUM* (Willd.) Beauv.

Siberian wheatgrass.

326206. K-27634. 'Aktiubinskij'. Aktiubinsk region.

326207. K-35220. Wild. Voronez region.

326208. K-35222. Wild. Altaj territory.

326209. *AGROPYRON TRICHOPHORUM* (Link) Richt. Stiffhair wheatgrass.

K-35218. Altaj region.

326210 to 326212. *ALOPECURUS PRATENSIS* L. Gramineae.

Meadow foxtail.

326210. K-25235. 'Hibinskij 438'. Murmansk region.

326211. K-34998. 'Mestnyj'. Ussurijsk territory.

326212. K-35382. 'Jarcevskij mestnyj'. Siberia.

326213. *ALOPECURUS VENTRICOSUS* (Gouan) Huds.

K-35383. 'Obskij'. Far northern.

326214. *AVENA BYZANTINA* K. Koch Gramineae.

Red oats.

K-9992. Uzbekistan.

326204 to 326319—Continued

- 326215 to 326232. AVENA SATIVA L. Common oats.
326215. K-4829/I. Armenia.
326216. K-7237. 'Verhniacs kij'. The Ukraine.
326217. K-7967. 'Verhniacs kij 41'. The Ukraine.
326218. K-8459. 'Maganskij 339-044'. Jakutia.
326219. K-8573. 'Markovskij 596'. The Ukraine.
326220. K-8611. 'Bajkal'. Irkutsk region.
326221. K-9135. 'Onohojskij A-547'. Buriatia.
326222. K-9949. 'Jygeva Koidu'. Estonia.
326223. K-9951. 'Jygeva Rostekindlam'. Estonia.
326224. K-10036. 'Severnyj 990'. Krasnojarsk territory.
326225. K-10590. Local. Komi.
326226. K-10792. 'Jakutskij 1708'. Jakutia.
326227. K-10793. Local. Jakutia.
326228. K-10799. 'Omskij 19260'. Irkutsk region.
326229. K-10846. 'Ajgorudo'. Sakhalin.
326230. K-10932. 'Severnyj 209'. Komi.
326231. K-11132. 'Severianin'. Arkhangelsk region.
326232. K-11340. 'Stendsky feltyj'. Latvia.
- 326233 to 326236. AVENA SATIVA var. ARISTATA Schlecht.
326233. K-4892. The Ukraine.
326234. K-8257. 'Sovetskij'. The Ukraine.
326235. K-9869. 'Hibiny 2'. Murmansk region.
326236. K-10732. 'Skorospelks'. Murmansk region.
326237. AVENA SATIVA var. BRUNNEA Koern. & Wern.
K-1740. Local. Irkutsk region.
- 326238 to 326240. AVENA SATIVA var. GRISEA Koern. & Wern.
326238. K-4890/2. The Ukraine.
326239. K-10591. Local. Komi.
326240. K-10872. 'Kabardinec'. Northern Caucasus.
- 326241 to 326253. AVENA SATIVA var. MUTICA Schlecht.
326241. K-1253. 'Samarskij samyj rannij'. Kujbyshev region.
326242. K-2392. Local. Irkutsk region.
326243. K-3719. The Ukraine.
326244. K-3724. The Ukraine.
326245. K-3730. The Ukraine.
326246. K-4887. The Ukraine.
326247. K-6809. 'Verhniacs kij 54'. The Ukraine.
326248. K-8770. 'Krymskij 90'. Crimea.
326249. K-9141. 'Sibiriak'. Irkutsk region.
326250. K-9939. 'Bendery 878A'. Moldavia.
326251. K-10790. 'L' govskij 1026'. Kursk region.

326204 to 326319—Continued

326241 to 326253—Continued

326252. K-10840. 'Krest' janskij'. Sakhalin.

326253. K-11122. 'Narymskij 943'. Tomsk region.

326254. AVENA SATIVA var. VOLGENSIS (var.) Nevski

K-10963. 'Polbianoj 13'. Udmurtia.

326255 to 326257. AVENA STERILIS L.

Animated oats.

326255. K-13. A-28. Japan.

326256. K-14. Italy.

326257. K-15. Turkey.

326258 to 326265. BROMUS INERMIS Leyss. Gramineae. Smooth brome.

326258. K-35058. 'Sujdinskij'. Leningrad region.

326259. K-35347. 'Mestnyji'. Pskov region.

326260. K-35366. 'Sverdlovskij 38'. Sverdlovsk region.

326261. K-35367. Wild. Kirov region.

326262. K-34202. Wild. Arkhangelsk region.

326263. K-34203. Wild. Arkhangelsk region.

326264. K-34246. 'Stepnoj'. Kustanaj region.

326265. K-34910. 'Sestroreckij'. Leningrad region.

326266 to 326268. ELYMUS SIBIRICUS L. Gramineae.

Wildrye.

326266. K-27157. 'Amurskij'. Amur region.

326267. K-27868. 'Guran'. Chita region.

326268. K-30766. Wild. Krasnojarsk territory.

326269 and 326270. HORDEUM DISTICHON var. PALMELLA Harlan Gramineae.

326269. K-18094. 'Beta Ketsoras'. Hungary.

326270. K-19094. 'Stavropolskij 7'. Stavropol territory.

326271. HORDEUM JUBATUM L.

Foxtail barley.

K-83W. Germany, Eastern Zone.

326272 to 326276. HORDEUM VULGARE var. PALLIDUM Seringe

Six-rowed barley.

326272. K-16948. 'Krasnodarskij 2929'. Krasnodar territory.

326273. K-17845. 'Sirvandany'. Azerbaijan.

326274. K-18469. 'Odesskij 17'. The Ukraine.

326275. K-19689. 'Odesskij 31'. The Ukraine.

326276. K-19690. 'Odessky rannij'.

326277 to 326281. LUPINUS LUTEUS L. Leguminosae.

European yellow lupine.

326277. K-1531. 'Nosovskij belosemiannyj'. The Ukraine.

326278. K-1636. 'Kormovoj 190'. The Ukraine.

326279. K-1641. 'Borovlianskij'. Bylorussia.

326280. K-1670. 'Kievskij'. The Ukraine.

326281. K-1726. 'Rannespelyj 301'. The Ukraine.

326282. SECALE KUPRIJANOVII Grossh. Gramineae.

K-9586. Krasnodar territory.

326204 to 326319—Continued

326283. *SECALE MONTANUM* Guss. Mountain rye.
K-9598. Stavropol territory.
- 326284 to 326287. *SECALE SEGETALE* (Zhuk.) Roshev.
326284. K-5836. Azerbaijan. 326286. K-9782. Kazarhstan.
326285. K-5867. Azerbaijan. 326287. K-9905. Turkmenistan.
326288. *SECALE SILVESTRE* Host
K-10054. Daghestan.
- 326289 and 326290. *SORGHUM BICOLOR* (L.) Moench Gramineae.
326289. K-814. 'Gaolian voskovidnyj'.
326290. K-1418. 'Gaolian nizkij'.
- 326291 to 326293. *SORGHUM CAFFRORUM* (Retz.) Beauv.
326291. K-127. 'Kaforskoe beloe'. Early.
326292. 'Belozernoje UTR-110'.
326293. 'Efremovskoe 2'.
326294. *SORGHUM DOCHNA* var. *TECHNICUM* (Koern.) Snowden Broomcorn.
K-2416. 'Penzenskoje ranneje 97'.
- 326295 and 326296. *SORGHUM DURRA* (Forsk.) Stapf in Prain
326295. K-828. 'Dzugara mestnaja'.
326296. K-2459. 'Dzugara nizkaja 24'. Early.
- 326297 and 326298. *SORGHUM SACCHARATUM* (L.) Moench
326297. K-2414. 'Jantar rannij 161'.
326298. 'Jantar kubanskij 84'.
- 326299 to 326311. *TRITICUM AESTIVUM* L. Gramineae. Common wheat.
326299. K-8547. 'Ukrainka'. The Ukraine. Winter type.
326300. K-21. 'Eritrospermum 841'. Saratov region. Spring type.
326301. K-38238. 'Alabasskaja'. Kazakhstan. Winter type.
326302. K-38535. 'Lutescens 758'. Saratov region. Spring type.
326303. K-39350. 'Sortandinka'. Kazakhstan. Spring type.
326304. K-40208. 'Dalnevostoenaia'. Primorsk Province. Spring type.
326305. K-40599. 'Saratovskaja 29'. Saratov region. Spring type.
326306. K-40651. 'Skorospelka 3'. Krasnodar territory. Winter type.
326307. K-41173. 'Skala'. Irkutsk region. Spring type.
326308. K-42549. China. Winter type.
326309. K-42790. 'Bezostaja 1'. Krasnodar territory. Winter type.
326310. K-43920. 'Mironovskaja 808'. The Ukraine. Winter type.
326311. K-45156. 'Celinogradka'. Kazakhstan. Spring type.
326312. *TRITICUM DICOCCUM* var. *FARRUM* Bayle ex Flaksb.
K-43843. Georgia. Spring type.
- 326313 and 326314. *TRITICUM DURUM* Desf. Durum wheat.
326313. K-28310. 'Sarrubra'. Saratov region. Spring type.
326314. K-43287. 'Micurinka'. Odessa region. Winter type.

326204 to 326319—Continued

326315. TRITICUM DURUM Desf.

K-29525. 'Arandany'. Azerbaijan. Semiwinter type.

326316. TRITICUM DURUM var. LEUCURUM (Alef.) Stolet.

K-38270. 'Sark'. Azerbaijan. Spring type.

326317. TRITICUM MONOCOCCUM L.

K-18140. Azerbaijan. Spring type.

326318. TRITICUM TIMOPHEEVII (Zhukov.) Zhukovsky

K-29538. Georgia. Spring type.

326319. TRITICUM VAVILOVII (Tum.) Jakub. ex Zhuk.

K-29533. Armenia. Winter type.

326320. CUCURBITA MAXIMA Duchesne Cucurbitaceae. Squash.

From the United States. Seeds presented by Mrs. J. E. Winfield, Painted Post, New York; originally from R. B. Thomas, Glendale, Calif. Numbered Mar. 14, 1968.

'White African'. Vine trailing; fruit white, 10 to 20 pounds. Good table quality; good winter keeper.

326321. BROMUS INERMIS Leyss. Gramineae. Smooth brome.

From Canada. Seeds presented by J. Drew Smith, Research Station, Canada Department of Agriculture, Saskatoon, Saskatchewan. Numbered Mar. 14, 1968.

S-7269. Synthetic from plants selected for resistance to *Pyrenophora bromi*. Intermediate north/south type.

326322 and 326323. PRUNUS CERASIFERA Ehrh. Rosaceae.

From Institute di Frutticoltura, Ciampino Ovest (Fiorano), Rome, Italy. Received Mar. 15, 1968.

326322. 10-Rusticano. From Calderoni.

326323. 10-Rusticano. From Ansaloni.

326324 and 326325.

From the Union of Soviet Socialist Republics. Seeds collected by Willis H. Skrdla, Crops Research Division, Regional Plant Introduction Station, Ames, Iowa. Numbered Mar. 18, 1968.

326324. CORONILLA VARIA L. Leguminosae.

Crownvetch.

Col. No. S-359. Stavropol region. Northeast of Teberda in mountains.

326325. FESTUCA VARIA Haenke Gramineae.

Fescue.

Col. No. 198. Stavropol region. Above Teberda village on top of Mt. Hatipara, north slope, open meadow. Elevation 1,830 m. Seed from single plant.

326326 and 326327. HORDEUM DISTICHON L. Gramineae. Two-rowed barley.

From Germany. Seeds presented by E. Rehse, Heine-Peragis Getreidezucht, Einbeck. Numbered Mar. 18, 1968.

326326. 'Fitis'.

326327. 'Ortolan'.

326328 to 326334. TRITICUM AESTIVUM L. Gramineae.
Common wheat.

From Rhodesia. Seeds presented by Agricultural Research Station, Causeway, Salisbury. Numbered Mar. 18, 1968.

- | | |
|-------------------|--------------------|
| 326328. 'Bubi'. | 326332. 'Shashi'. |
| 326329. 'Devuli'. | 326333. 'Tuli'. |
| 326330. 'Hondi'. | 326334. 'Umwinsi'. |
| 326331. 'Khami'. | |

326335 to 326337. TRITICUM AESTIVUM L. Gramineae.
Common wheat.

From Colombia. Seeds presented by Mario Zapata B., Instituto Colombiano Agropecuario, Bogota. Numbered Mar. 18, 1968.

326335. ICA Samaca-68. Bza x (Af-My)2. II-13022-9b-1t-2b-1t. Spike white, awned; grain hard red.
326336. ICA Sugamuxi-68. Fn-K.58/N x Bza2. II-12193-7b-1t-2b. Spike white, awnless; grain soft red.
326337. ICA Zipa-68. Fn-y(Af-My)2. II-12924-20b-2b-1t. Spike brown awned; grain hard red.

326338 to 326340.

From Japan. Plants purchased from K. Wada, Hakoneya Nurseries, Yokohama. Numbered Mar. 18, 1968.

326338 and 326339. PIERIS JAPONICA (Thunb.) G. Don Ericaceae.
Japanese pieris.

326338. 'Christmas Cheer'. Flowers deep rose, early.
326339. 'Daisen'. Flowers deep pink.
326340. PIERIS sp.
 'Purity'.

326341 and 326342. COIX LACRYMA-JOBI L. Gramineae.
Jobs-tears.

From Brazil. Seeds presented by B. V. Skvortzov, Secretaria da Agricultura, Instituto de Botanica, Sao Paulo. Numbered Mar. 18, 1968.

326341. No. 1. Origin Hong Kong.
326342. No. 2. Origin Tokyo. Leaves narrow, flowers early.

326343 and 326344. RICINUS COMMUNIS L. Euphorbiaceae.
Castorbean.

From Paraguay. Seeds presented by John R. Peters, Fernheim Experimental Farm, Filadelfia. Numbered Mar. 18, 1968.

326343. 'Chaco Common'. Varietv. To 120 cm. high. Yield little higher than Hale or Lynn.
326344. 'Chaco Spineless'. Selection for spinelessness. Tallest and highest yield of 15 varieties; to 135 cm. high; 300 kg./ha.

326345 to 326354. PHASEOLUS VULGARIS L. Leguminosae.
Common bean.

From the United States. Seeds grown at United States Plant Introduction Station, Pullman, Wash. Numbered Mar. 18, 1968.

326345. Selection from P.I. 136722. Origin Canada.
326346. Selection from P.I. 150404. Origin El Salvador.

326345 to 326354—Continued

326347. Selection from P.I. 195373. Origin Guatemala.
 326348. Selection from P.I. 201349. Origin Mexico.
 326349. Selection from P.I. 204715. Origin Turkey.
 326350. Selection from P.I. 204715. Origin Turkey.
 326351. Selection from P.I. 204716. Origin Turkey.
 326352. Selection from P.I. 204716. Origin Turkey.
 326353. Selection from P.I. 204720. Origin Turkey.
 326354. Selection from P.I. 209462. Origin Mexico.

326355. COFFEA MAURITIANA Lam. Rubiaceae.

From the United States. Plants grown at United States Plant Introduction Station, Glenn Dale, Md. Original seed obtained from Office National des Forets, Direction Regionale de la Reunion, Saint Denis. Numbered Mar. 19, 1968.

326356 to 326397.

From the Union of Soviet Socialist Republics. Seeds collected by Nikita Botanic Garden, Yalta, Crimea. Numbered Mar. 19, 1968.

326356. *AGROPYRON PECTINIFORME* Roem & Schult. Gramineae.
 No. 318.
326357. *ALOPECURUS MYOSUROIDES* Huds. Gramineae.
 No. 324.
326358. *ANDROPOGON ISCHAEMUM* L. Gramineae. **Beardgrass.**
 No. 327.
326359. *ARRHENATHERUM ELATIUS* (L.) Presl. Gramineae. **Tall oatgrass.**
 No. 328.
326360. *ASTRAGALUS GLYCYPHYLLOS* L. Leguminosae.
 No. 481.
326361. *ASTRAGALUS PONTICUS* Pall.
 No. 484.
326362. *BRASSICA SINAPISTRUM* Boiss. Cruciferae.
 No. 256.
326363. *BROMUS RIPARIUS* Rehm. Gramineae.
 No. 340.
326364. *CARTHAMUS LANATUS* L. Compositae.
 No. 114
326365. *CORNUS ALBA* L. Cornaceae. **Tatarian dogwood.**
 No. 1062.
326366. *CORONILLA CORONATA* L. Leguminosae.
 No. 490.
326367. *CORONILLA EMEROIDES* Boiss. et Sprun.
 No. 491.
326368. *CORONILLA SCORPIOIDES* (L.) Koch
 No. 492.

326356 to 326397—Continued

326369. *CORONILLA VARIA* L. Crownvetch.
No. 493.
326370. *CRAMBE KOKTEBELICA* N. Busch Cruciferae.
No. 226.
326371. *CRAMBE PONTICA* Stev. ex Rupr.
No. 227.
326372. *CYNODON DACTYLON* (L.) Pers. Gramineae. Bermudagrass.
No. 345.
326373. *DACTYLIS GLOMERATA* L. Gramineae. Orchardgrass.
No. 347.
326374. *DIANTHUS ARMERIA* L. Caryophyllaceae.
No. 58.
326375. *DIANTHUS CAPITATUS* DC.
No. 359.
326376. *DIANTHUS MARSHALLII* Schischk.
No. 60.
326377. *DIOSPYROS KAKI* × *D. LOTUS* Ebenaceae. Persimmon.
No. 1090.
326378. *FESTUCA SULCATA* (Hack.) Beck Gramineae.
No. 360.
326379. *LACTUCA SERRIOLA* L. Compositae.
No. 149.
326380. *LACTUCA TUBEROSA* Jacq.
No. 150.
326381. *LACTUCA VIMINEA* (L.) J. et C. Presl.
No. 151.
326382. *LATHYRUS APHACA* L. Leguminosae.
No. 502.
326383. *LATHYRUS HIRSUTUS* L. Rough peavine.
No. 505.
326384. *LATHYRUS NISSOLIA* L.
No. 508.
326385. *LATHYRUS ROTUNDIFOLIUS* Willd.
No. 511.
326386. *LATHYRUS TUBEROSUS* L.
No. 513.
326387. *MALUS SYLVESTRIS* Mill. Rosaceae. Apple.
No. 716.
326388. *MEDICAGO SAXATILIS* M. B. Leguminosae.
No. 525.
326389. *MESPILUS GERMANICA* L. Rosaceae. Medlar.
No. 717.

326356 to 326397—Continued326390. *ONOSMA TAURICUM* Pall. Boraginaceae.

No. 41.

326391. *PYRUS ELAEAGRIFOLIA* Pall. Rosaceae.

No. 729.

326392. *SIDERITIS TAURICA* Steph. ex Willd. Labiatae.

No. 463.

326393. *SORBUS TORMINALIS* (L.) Crantz Rosaceae. **Mountain ash.**

No. 735.

326394. *TRIGONELLA CRETICA* (L.) Boiss. Leguminosae.

No. 557.

326395. *TRIGONELLA GLADIATA* Stev. ex Fischer

No. 558.

326396. *TRIGONELLA MONSPELIACA* L.

No. 559.

326397. *VIBURNUM TINUS* L. Caprifoliaceae. **Laurustinus.**

No. 1001.

326398. VITIS (hybrid). Vitaceae.

From Switzerland. Cuttings presented by the Station Federale d'Essais Agricoles, Nyon. Received Mar. 19, 1968.

G-1.

326399 to 326416.

From Austria. Seeds presented by R. Hron, Bundesanstalt fur Pflanzenbau und Samenprufung, Wien. Numbered Mar. 20, 1968.

326399 to 326402. *HORDEUM DISTICHON* L. Gramineae. **Two-rowed barley.**
Spring type.

326399. 'Perfekta'.

326401. 'Probstdorfer Sola'.

326400. 'Probstdorfer Eura II'.

326402. 'Quantum'.

326403 and 326404. *HORDEUM VULGARE* L.

Winter type.

326403. 'Korona'.

326404. 'Probstdorfer Vierzeilige'.

326405 to 326407. *SECALE CEREALE* L. Gramineae. **Rye.**

Winter type.

326405. 'Edelhofer Neu'.

326406. 'Schlagler Neu'.

326407. 'Universal Neu'.

326408 to 326416. *TRITICUM AESTIVUM* L. Gramineae. **Common wheat.**

Spring type.

326408. 'Kalif'.

326409. 'Loosdorfer Sommerweizen'.

326410. 'Rubin'.

Winter type.

326411. 'Bartl'.

326412. 'Favorit'.

326399 to 326416—Continued**326408 to 326416—Continued**

326413. 'Loosdorfer Winterweizen'. 326415. 'Probstdorfer Extrem'.

326414. 'Multiweib'. 326416. 'Probstdorfer Geber'.

326417 to 326421. PHASEOLUS VULGARIS L. Leguminosae.**Common bean.**

From the Netherlands. Seeds presented by Institute for Horticultural Plant Breeding, Wageningen. Received Mar. 20, 1968.

326417. 'Cordon'. Resistant to anthracnose.

326418. 'Cornell 49-242'. Resistant to anthracnose.

326419. 'Flits'. Resistant to anthracnose.

326420. 'Imuna'. Resistant to anthracnose.

326421. 'Widusa'. Resistant to anthracnose.

326422. PISUM SATIVUM L. Leguminosae.**Pea.**

From the Netherlands. Seeds presented by Sluis Brothers, Enkhuizen. Received Mar. 20, 1968.

'Non Plus Ultra'.

326423. IRIS sp. Iridaceae.

From Syria. Seeds collected by A. L. Richardson, Department of Plant and Soil Science, Montana State University, Bozeman, Montana. Received Mar. 20, 1968.

Northern Syria. Arid mountain slopes near Aleppo. Bulbous perennial, to 15 cm. high. Flowers light blue, last one day only.

326424 and 326425.

From Japan. Scions presented by Y. Tachibana, Botanical Garden of Osaka, City University, Katano-Cho-Kitakawachigun, Osaka Prefecture. Received Mar. 20, 1968.

326424. *LAGERSTROEMIA FAURIEI* Koehne Lythraceae.

Near Onoma, Yakushima Island, Kagoshima Prefecture. Elevation 350 feet.

326425. *LAGERSTROEMIA SUBCOSTATA* Koehne**Crapemyrtle.**

Botanical Garden of Kagoshima University. Collected from Yakushima Island. Elevation 2,000 feet. Hardy.

326426 and 326427. LAGERSTROEMIA INDICA L.**Common crapemyrtle.**

From the United States. Plants bred by Donald R. Egolf, United States National Arboretum, Washington, D.C. Numbered Mar. 20, 1968.

326426. N.A. 30166. 'Seminole'. *L. indica* (hardy pink) x *L. indica* 'Low Flame'. Compact, medium growth; foliage heavy, glossy; inflorescence large, globose, clear pink, abundant. Mildew resistant.

326427. N.A. 30167. 'Cherokee'. *L. indica* (hardy red) x *L. indica* 'Low Flame'. Compact, medium growth; foliage heavy, glossy; inflorescence large, pyramidal, brilliant red, abundant. Mildew resistant.

326428 to 326430. LYCOPERSICON ESCULENTUM Mill. Solanaceae.**Tomato.**

From the United States. Seeds grown at Regional Plant Introduction Station, Iowa State University, Ames, Iowa. Numbered Mar. 21, 1968.

326428 to 326430—Continued

326428. Col. No. A-692. 'Spartanburg Climbing'. From Northeastern Regional Station, Geneva, N.Y. Originally from Spartanburg, S. C. Vine indeterminate, large, late maturity; potato leaf. Fruit oblate; flesh red; skin colorless; medium fasciated; 6 to 9 cm. diameter; radial cracking, medium concentric, light set.
326429. Col. No. A-1026. 'Juzonin 1644'. From L. H. Lyall, Canada Agricultural Research Station, Ottawa. Origin Soviet Union. Vine medium large, late maturity. Fruit globe, smooth, medium concentric flesh red; skin yellow; 5 to 6 cm. diameter; radial cracking.
326430. Col. No. A-1125. 'The Fruit'. From Cheyenne Horticultural Field Station, Wyo. Vine indeterminate, medium small, medium late maturity. Fruit small, medium set, globe, 6 to 8 cm. diameter; flesh red; skin colorless; no fasciation, medium concentric cracks, medium severe radial cracks.

326431 to 326448.

From India. Plants purchased from Twin Brothers Nurseries, Eighth Mile Post, Kalimpong, District Darjeeling. Numbered Mar. 21, 1968.

326431. *AERIDES LAWRENCIAE* Reichenb. f. Orchidaceae.
326432. *CIRRHOPELALUM CORNUTUM* Lindl. Orchidaceae.
326433. *CIRRHOPELALUM GUTTULATUM* Hook. f.
326434. *CIRRHOPELALUM ORNATISSIMUM* Reichb. f.
326435. *CYPRIPEDIUM SPICERIANUM* Reicb. f. Orchidaceae.
326436. *CYPRIPEDIUM VENUSTUM* Wall. ex Sims
326437. *DENDROBIUM FORMOSUM* Roxbg. Orchidaceae.
326438. *DENDROBIUM FORMOSUM* var. *GIGANTEUM* Hort.
326439. *DENDROBIUM NOBILE* Lindl.
326440. *DENDROBIUM PARISHII* Reichb. f.
- 326441 and 326442. *DENDROBIUM PRIMULINUM* Lindl.
326441. No data.
326442. 'Gigas'.
326443. *DENDROBIUM TRANSPARENS* Wall.
326444. *COELOGYNE HOOKERIANA* Lindl. Orchidaceae.
326445. *PLEIONE HUMILIS* D. Don
326446. *PLEIONE MACULATA* Lindl. & Paxt.
326447. *PLEIONE PRAECOX* (Sm.) D. Don
326448. *SACCOLABIUM AMPULLACEUM* Lindl. Orchidaceae.

326449 to 326480. ORYZA GLABERRIMA Steud. Gramineae.

From Senegal. Seeds presented by Institut de Recherches Agronomique Tropical, Bambey. Received Mar. 21, 1968.

326449. No. I. Maturity 102 days.
326450. No. I. Maturity 101 days.
326451. No. II. Maturity 92 days.
326452. No. II. Maturity 91 days.
326453. No. III. Maturity 92 days.
326454. No. III. Maturity 92 days.
326455. No. IV. Maturity 97 days.

326449 to 326480—Continued

326456. No. IV. Maturity 97 days.
 326457. No. V. Maturity 104 days.
 326458. No. V. Maturity 104 days.
 326459. No. VI. Maturity 104 days.
 326460. No. VI. Maturity 104 days.
 326461. No. VII. Maturity 93 days.
 326462. No. VII. Maturity 94 days.
 326463. No. VII. Maturity 100 days.
 326464. No. VIII. Maturity 90 days.
 326465. No. IX. Maturity 94 days.
 326466. No. IX. Maturity 94 days.
 326467. No. X. Maturity 92 days.
 326468. No. X. Maturity 92 days.
 326469. No. XI. Maturity 94 days.
 326470. No. XI. Maturity 94 days.
 326471. No. XII. Maturity 92 days.
 326472. No. XII. Maturity 92 days.
 326473. No. XIII. Maturity 93 days.
 326474. No. XIII. Maturity 94 days.
 326475. No. XIV. Maturity 94 days.
 326476. No. XIV. Maturity 94 days.
 326477. No. XV. Maturity 84 days.
 326478. No. XV. Maturity 84 days.
 326479. XVI. Maturity 94 days.
 326480. XVI. Maturity 94 days.

**326481 to 326487. LEUCAENA LEUCOCEPHALA (Lam.) de Wit Le-
guminosae. Leadtree.**

From Guatemala. Seeds presented by Milton Lau, United States Agency for International Development Mission to Guatemala, Guatemala City. Received Mar. 21, 1968.

326481. No. 1. Km. 39 Carretera al Atlantico.
 326482. No. 2. Km. 25 Carretera al Atlantico.
 326483. No. 3. Km. 39 Carretera al Atlantico.
 326484. No. 4. Km. 80 Carretera al Atlantico.
 326485. No. 5. Km. 71 Carretera al Atlantico.
 326486. No. 6. Pasabien, Zacapa. Km. 2 de la Carretera al Atlantico.
 326487. No. 7. Carretera a Coban, Km. 10 del Rancho.

326488 to 326511.

From Colombia. Plants and seeds collected by D. H. Timothy, Department of Crop Science, North Carolina State University, Raleigh, North Carolina. Received Mar. 21, 1968.

326488 to 326511—Continued

- 326488 to 326497. *TRIPSACUM AUSTRALE* Cutler & E. Anders. Gramineae.
326488. Col. No. 273. 'Masiega'. Boyaca, Km. 10, south of Sogamoso on road Agua Azul to Yopal. On bank of creek Cano Blanco. To 5 m. high. Small population of seven plants. Plants.
326489. Col. No. 274. 'Masiega'. Boyaca, Km. 12, on road Agua Azul to Yopal. Along creek Cano Iquamena. Plants.
326490. Col. No. 275. 'Masiega'. Boyaca, Km. 3, on road from Agua Azul to Pajarito. On creek bank. Plants.
326491. Col. No. 283. Meta. Km. 50, Expressway La Libertad to Puerto Lopez. Hacienda Siberia. In association with palm, *Cecropis*; deciduous short trees. Elevation 250 m. Plants.
326492. Col. No. 284. Meta, km. 1.5 east of Rio Negrito to Puerto Lopez from Villavicencio. Margin of secondary deciduous forest, *Curatella*, etc., near canefield. Small population. Plants.
326493. Col. No. 285. Meta, 15 km. south of San Juan near Los Micos. Edge of woods near forest preserve, northwest of Los Macarenas. Plants.
326494. Col. No. 286. Meta. Hacienda El Turpial de la Macarena, along Rio Guejar toward northwest end of Las Macarenas, edge of clearing at top of river bank. Plants.
326495. Col. No. 287. Meta. Hacienda El Turpial de la Macarena. River bank top in partial shade, Rio Guejar about ½ mile in front of gravel pit at road end on west slope of Las Macarenas. Plants.
326496. Col. No. 289. Meta. Km. 10, San Martin to Villavicencio. Forty yards from canefield along road. Large population. Plants.
326497. Col. No. 290. Meta. Km. 12, San Martin to Villavicencio. Along road in canefields. Plants.
326498. *TRIPSACUM* sp.
Col. No. 271. Boyaca, Km. 3, Agua Azul to Pajarito. Along road bank. Colony of 3 to 5 plants. Plants.
326499. *TRIPSACUM* sp.
Col. No. 276. Boyaca, Km. 7, Soata to Tibacoque. In soil pockets on boulder slide. Rio Chicamocha valley. Elevation 1,000 m. Very dry. Plants.
326500. *TRISPACUM* sp.
Col. No. 277. Santander. Km. 5, Malaga to Capitanejo on steep road bank. Soil sandy with rock and gravel. Plants.
326501. *TRIPSACUM* sp.
Col. No. 278. 'Cortadera'. Santander. Km. 7, San Andres to Malaga. Steep rocky wall of valley. Plants.
326502. *TRIPSACUM* sp.
Col. No. 279. 'Cortadera'. Santander. Steep slope by bridge of Rio Iguara between Malaga and San Andres. Plants.
326503. *TRIPSACUM* sp.
Col. No. 280. Santander, Km. 2, Los Curos to El Tope. Steep slope of canyon. Plants.
326504. *TRIPSACUM* sp.
Col. No. 281. Santander, Km. 2, Los Curos to El Tope. Steep slope of canyon. Plants.

326488 to 326511—Continued

326505. TRIPSACUM sp.

Col. No. 282. Santander, Km. 1, Los Curos to San Gil. Rio Manco valley. Large population. Plants.

326506. ARACHIS HYPOGAEA L. Leguminosae.

Col. No. 288. Meta, Conaguaro. South of San Martin. Origin unknown. Seeds.

326507. GOSSYPIUM sp. Malvaceae.

Col. No. 266. Caldas. Along road Manizales to Anserma. Dooryard. Seeds.

326508. GOSSYPIUM sp.

Col. No. 272. Boyaca. Near Agua Azul, along road to Pajarito, south of Sogamoso. Seeds.

326509. TRIPSACUM AUSTRALE Cutler & E. Anders. Gramineae.

Col. No. 287. Meta. Hacienda El Turpial de la Macarena. Riverbank top in partial shade, Rio Guejar about $\frac{1}{2}$ mile in front of gravel pit at road end on west slope of Las Macarenas. Seeds.

326510. TRIPSACUM sp.

Col. No. 278. 'Cortadera'. Santander, Km. 7, San Andres to Malaga. Steep rocky wall of valley. Seeds.

326511. TRIPSACUM sp.

Col. No. 280. Santander, Km. 2, Los Curos to El Tope. Steep slope of moist canyon. Seeds.

326512 to 326535.

From Ghana. Seeds collected by Dr. Marjorie G. Whiting, United States Department of Agriculture, Economic Research Service, Washington, D. C. Received Mar. 22, 1968.

326512. ANACARDIUM OCCIDENTALE L. Anacardiaceae.

Purchased near Malindi, Kenya.

326513. ARGYREIA sp. Convolvulaceae.

Used as snake venom antidote.

326514. CEIBA sp. Bombacaceae.

326515. CITRULLUS LANATUS (Thunb.) Mansf. Cucurbitaceae.

Watermelon.

326516. CUCUMEROPSIS sp. Cucurbitaceae.

326517. CYPERUS ESCULENTUS L. Cyperaceae.

Chufa.

326518. ELAEIS GUINEENSIS Jacq. Palmae.

African oil palm.

326519. PARKIA FILICOIDEA Welw. ex Oliver Leguminosae.

326520 to 326522. PENNISETUM SPICATUM (L.) Willd. Gramineae.

Pearl millet.

326520. No. 1.

326521. No. 2.

326522. No. 3.

326523. PHASEOLUS LUNATUS L. Leguminosae.

Lima bean.

326524. RICINODENDRON RAUTANENII Schinz Euphorbiaceae.

Kalahari, Botswana, Dobe area.

326525 to 326528. SORGHUM BICOLOR (L.) Moench Gramineae.

326512 to 326535—Continued

326525 to 326528—Continued

326525. No. 1.

326527. No. 3.

326526. No. 2.

326528. No. 4.

326529. *VIGNA SINENSIS* (Torner) Savi Leguminosae. Common cowpea.326530 to 326532. *VOANDZEIA SUBTERRANEA* (L.) Thouars. Leguminosae.

326530. No. 1.

326531. No. 2.

326532. No. 3.

326533 to 326535. *ZEA MAYS* L. Gramineae.

Corn.

326533. Samp. From Botswana.

326534. White corn. From Botswana.

326535. Yellow corn. From Botswana.

326536. *VITIS* (hybrid). Vitaceae.

From Germany. Cuttings presented by the Bundesforschungsanstalt Fur Rebenzuchtung Geilweilerhof, Ober Landau/Pfalz. Received Mar. 27, 1968.

F.S. 4-201-39. 'Moselriesling' \times Vi 5861 (F₂ *V. vinifera* 'Gamay' \times *V. riparia*).

326537 to 326541.

From Colombia. Seeds collected by D. H. Timothy, Department of Crop Science, North Carolina State University, Raleigh, North Carolina. Numbered Mar. 27, 1968.

326537. *LEUCAENA LEUCOCEPHALA* (Lam.) de Wit Leguminosae.

Leadtree.

Col. No. 267. Antioquia. Along boulevard entering Medellin from south. (Caldas). Planted along river.

326538. *TRIPSACUM* sp. Gramineae.

Col. No. 261. Gramalote. Cundinamarca, between Villeta and Sasaima, 1 km. below Rio Dulce bridge, edge of canefield, high bank of road. Elevation 1,200 m.

326539. *TRIPSACUM* sp.

Col. No. 270. Cundinamarca. Km. 4 Viota to Tocaima. Rancho Tomarindo. Escape from cultivation on steep rocky hillside woodcut. Elevation 600 m.

326540. *TRIPSACUM* sp.

Col. No. 291. Santander Norte. Km. 2, Santiago to Gramalote. Slate hillside beside "Balastrea".

326541. *TRIPSACUM* sp.

Col. No. 295. Santander Norte. Km. 4, Dona Juana to Durania. Slate hillside by road.

326542 and 326543.

From Taiwan. Seeds and cuttings presented by the National Taiwan University, Taiwan. Received Mar. 28, 1968.

326542. *AUCUBA CHINENSIS* Benth. Cornaceae.

Collected by M. T. Kao in forests at Len-hua-chu, Nantou Hsien. (Seeds).

326542 and 326543—Continued

326543. *BUXUS MICROPHYLLA* var. *INTERMEDIA* (Kanehira) Li Buxaceae.

Collected by M. T. Kao, in garden at the University campus, Taipei. (Cuttings).

326544. *VITIS VINIFERA* L. Vitaceae. **European grape.**

From Japan. Cuttings presented by Koju Kikkawa, Nippon Soda Company, Ltd., Chiyoda-ku, Tokyo. Received Mar. 28, 1968.

'Kyoho'.

326545. *MORUS NIGRA* L. Moraceae. **Acid mulberry.**

From India. Cuttings presented by Fred Smetacek, The Retreat, Bhimtal, District Nainital, U.P. Received Apr. 4, 1968.

326546 to 326549.

From Yugoslavia. Seeds obtained from Vinko Sadar, Biotehniska Fakulteta, Ljubljana, under PL 480 Project E30-CR-2. Numbered Apr. 8, 1968.

326546. *CALAMINTHA CLINOPODIUM* Benth. Labiatae.

Yu 45712. Perennial herb from creeping rhizomes; stems 3 to 8 dm. high, erect; branches simple; flowers in whorls. Common in England, southern Europe, central and western Asia, Siberia, and northern Africa. Summer.

326547. *CENTAUREA GLABERRIMA* Tausch Compositae.

Yu 45186. Annual or perennial herb, thistlelike. Yugoslavia. Summer.

326548. *ECHIU M ITALICUM* L. Boraginaceae.

Yu 45701. Biennial herb, coarse, 3 to 8 dm. high; flowers in loose racemes. Europe and Mediterranean region. Summer.

326549. *PORTENSCHLAGIA RAMOSISSIMA* Vis. Umbelliferae.

Yu 45166. Perennial herb, tall; umbels compound, branches many, rays many. Cultivated as ornamental, hardy; propagated by seeds or division. Southern Europe. Summer.

326550 to 326556.

From Turkey. Seeds obtained from Osman Tosun, Ziraat Fakultesi, Ankara, under P.L. 480 Project A22-CR-1. Numbered Apr. 8, 1968.

326550. *CEPHALARIA* sp. Dipsacaceae.

Tu 46047. Annual, 8 to 10 dm. high; stem erect. Turkey. Summer.

326551. *CREPIS ALPINA* L. Compositae.

Tu 46783. Annual, 3 to 8 dm. high. Waste places in mountains. Turkey, Syria, Israel, Mediterranean region. Spring.

326552. *CREPIS ASPERA* L.

Tu 46855. Annual, 0.5 to 1 m. high; stem erect, rough with stiff bristles, broadly forked, many headed. Mediterranean region. Spring.

326553. *ECHIU M VULGARE* Linn. Boraginaceae.

Tu 46002. Biennial, to 1 m. high, bristly-hairy; flowers many on short, one-sided racemes, forming narrow thyrses. Cultivated as ornamental. Europe. Summer.

326554 and 326555. *EUPHORBIA TINCTORIA* Boiss. et Huet ex Boise Euphorbiaceae.

326554. Tu 46797. Erect, many stems, 3 to 5 dm.

326555. Tu 46798. Erect, many stems, 3 to 5 dm.

326550 to 326556—Continued

326556. *LAPPULA BARBATA* (Lehm.) Guerke. Boraginaceae.

Tu 46142. Annual or biennial herb, 3 to 5 dm. high; stems many; paniculate above; racemes becoming much elongated. Mountain regions. Israel, Turkey. Summer.

326557. *ROCHELIA STYLARIS* Boiss. Boraginaceae.

From Pakistan. Seeds presented by E. Nasir, Gordon College, Rawalpindi, under P.L. 480 Project A17-CR-5. Numbered Apr. 8, 1968.

Pa 47214. Annual, erect, paniculately branched; racemes one-sided, lax. Dry desert places, from plains to 8,000 feet elevation. Spring.

326558 to 326560.

From Spain. Seeds obtained from Instituto Nacional de Investigaciones Agronomicas, Plantas Forrajeras y Pratenses, Madrid, under P.L. 480 Project E25-CR-11. Numbered Apr. 8, 1968.

326558. *CARLINA CORYMBOSA* L. Compositae.

Sp. 44861. Annual, thistlelike, to 1 m. high; stems simple or corymbosely branched. Dry hills. Mediterranean region. Summer.

326559. *EUPHORBIA NUTANS* Lag. Euphorbiaceae.

Sp 45831. Annual herb, erect, to 9 dm. high; mostly branched; cyathia solitary or clustered. Weed widespread in United States. Summer.

326560. *PICRIS COMOSA* (Boiss.) Benth. & Hook. f. Compositae.

Sp 47246. Perennial herb, robust. Mediterranean region. Spring and summer.

326561 and 326562.

From Uruguay. Seeds obtained from Facultad de Agronomia, Laboratorio de Botanica, Montevideo, under P.L. 480 Project A9-CR-3. Numbered Apr. 8, 1968.

326561. *EUPHORBIA HIRTELLA* Boiss. Euphorbiaceae.

Ur 44752. Annual herb, erect, to 6 dm. high; good seeder but shattering at maturity. Summer.

326562. *STENACHAENIUM MACROCEPHALUM* (DC.) Benth ex Benth. & Hook. Compositae.

Ur 47294. Annual, erect, to 1.2 m. high; heads in terminal cymes; good seeder.

326563. *CHRISTOLEA CRASSIFOLIA* Cambess. Cruciferae.

From India. Seeds obtained from Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi, under P.L. 480 Project A7-CR-148. Numbered Apr. 8, 1968.

In 47433. Perennial herb; branches many; stems ascending, prolific seeder. Western Tibet. Elevation 4,100 m. Spring and summer.

326564. *MOSLA PUNCTULATA* Nakai Labiatae.

From Korea. Seeds obtained from Tchang Bok Lee, College of Agriculture, Seoul National University, Suwon, under P.L. 480 Project A13-CR-1. Numbered Apr. 8, 1968.

Ko 45861. Annual herb, erect, to 6 dm. high; flowers in dense elongate spikes. Grassy slopes in lowlands and hills. China, Korea, Manchuria, Formosa, Japan and Ryukyus. September and October.

326565. EUPHORBIA HETEROPHYLLA L. Euphorbiaceae.

From the United States. Seeds grown at Regional Plant Introduction Station, Ames, Iowa. Numbered Apr. 8, 1968.

NU 50421. Annual herb, erect, to 1 m. high; cyathia in terminal cymes. Cultivated as ornamental. Damp, sandy soil. Florida to Texas, north to Virginia, Indiana, Wisconsin and South Dakota. August and September.

326566. MONARDA FISTULOSA L. Labiatae. Wildbergamot.

From the United States. Seeds collected in 1960 by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered Apr. 8, 1968.

Col. No. 4047. Along Highway 68, south of Golden, Colo. Open and partly shaded slopes. Perennial, to 18 inches high.

326567. MONARDA PUNCTATA L. Labiatae. Spotted beebalm.

From the United States. Seeds collected in 1960 by Arthur S. Barclay, Corps Research Division, Plant Industry Station, Beltsville, Md. Numbered Apr. 8, 1968.

Col. No. 851. Near University of Oklahoma Biological Station. Marshall County, Okla. Perennial herb; branches erect; bracts greenish white; flowers light yellow with brownish-red dots. Growing in weedy field, soil sandy.

326568. MALOPE TRIFIDA Cav. Malvaceae.

From the United States. Seeds received in 1960 by Quentin Jones, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered Apr. 8, 1968.

NU 40837. Annual, to 1 m. high; flowers solitary, axillary, stalked; carpels numerous and congested into a head. Cultivated as ornamental. Spain, North Africa.

326569. CRAMBE ABYSSINICA Hochst. ex R. E. Fries Cruciferae.

From Ethiopia. Seeds collected by B. M. Leese, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Received Apr. 11, 1968.

Col. No. 713-B. Agriculture College, Jimma. Local variety.

326570 to 326577. MAGNOLIA (hybrids) Magnoliaceae.

From the United States. Plants bred at United States National Arboretum, Washington, D. C. Received Apr. 1968.

(*M. liliflora* 'Nigra' × *M. stellata* 'Rosea'). Shrubs multistemmed, erect, 6 to 10 feet high, deciduous. Flower characters variable. Selected for late flowering to avoid frost. Easily propagated from soft wood cuttings.

326570. N.A. 28344. 'Ann'. Flower erect, 2 to 4 inches diameter, 6 to 8 broad tepals, inside purple, outside bright red purple. Earliest of this series.

326571. N.A. 28345. 'Judy'. Flower 2 to 3 inches diameter, 10 tepals, inside creamy white, outside red purple. Slowest growing of this cross. Second earliest flowering group.

326572. N.A. 28346. 'Randy'. Flower 3.5 to 5 inches diameter, 9 to 11 tepals, stellate, inside white, outside red purple. Extremely floriferous. Middle flowering group.

326573. N.A. 28347. 'Ricki'. Flower 4 to 6 inches diameter, 10 to 15 contorted tepals, inside white or purple stained, outside red purple. Middle flowering group.

326574. N.A. 28348. 'Betty'. Flower to 8 inches diameter, 12 to 18 tepals, inside white, outside grey purple at base to red purple at tip. Second earliest flowering group.

326570 to 326577—Continued

326575. N.A. 28350. 'Susan'. Flower 4 to 6 inches diameter, usually 6 tepals, twisted, inside stained red purple, outside varying shades of red purple. Second earliest flowering group.

326576. N.A. 28349. 'Jane'. (*M.* hybrid 'Reflorescens' × *M. stellata* 'Waterlily'). Flower cup shaped, 3.5 to 4 inches diameter, 8 to 10 tepals, inside white, outside red purple at base, lighter at tip. Mid-late flowering group.

326577. N.A. 28351. 'Pinkie'. (*M.* hybrid 'Reflorescens' × *M. stellata* 'Rosea'). Flower cup shaped, 5 to 7 inches diameter, 9 to 12 broad tepals, inside white, outside pale red purple fading to pink. Latest flowering of this series.

326578 to 326582.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad through Department of Agricultural Botany, University of Reading, Reading, England. Received Apr. 12, 1968.

326578 to 326580. GLYCINE MAX (L.) Merr. Leguminosae. Soybean.

326578. K-5363. Originally from China. Seeds dull brown.

326579. K-5776. Originally from Rumania. Seeds shiny black.

326580. K-5683. Originally from Germany. Seeds shiny brown.

326581 and 326582. GLYCINE USSURIENSIS Regal & Maack

326581. K-5820. From Soviet Union.

326582. From Primorsk Province. Soviet Union.

326583 to 326585. PUERARIA LOBATA (Willd.) Ohwi Leguminosae. Kudzu.

From Korea. Seeds presented by Chang Bok Lee, College of Agriculture, Seoul National University, Suwon, through Jeung Haeng Ree, Yungnam Crop Experiment Station, Milyang. Received Apr. 12, 1968.

326583. No. 1.

326584. No. 2.

326585. No. 3.

326586 to 326593. ARACHIS HYPOGAEA L. Leguminosae.

From Uganda. Seeds presented by Department of Agriculture, Serere Research Station, Soroti. Received Apr. 12, 1968.

326586. 'Acholi White'. 326590. 'Mt. Makulu'.

326587. 'B-100'. 326591. 'Roxo 531'.

326588. 'Bukene'. 326592. 'S-189'.

326589. 'Nari Pinter'. 326593. 'Tatu 386'.

326594 to 326598. CUCUMIS SATIVUS L. Cucurbitaceae. Cucumber.

From Hungary. Seeds presented by Gy Meszoly, Agricultural Experimental Institute of Duna-Tiszakoz, Kecskemet. Received Apr. 12, 1968.

326594. 'Kecskemeti hamvas'. 326597. 'Kecskemeti 32'. F₁.

326595. 'Kecskemeti 3'. F₁. 326598. 'Kecskemeti 114'. F₁.

326596. 'Kecskemeti 31'. F₁.

326599. CARTHAMUS TINCTORIUS L. Compositae. Safflower.

From Germany. Seeds presented by Professor Schuster, Institute fur Pflanzenbau, Gissen, through P. F. Knowles, Agricultural Experiment Station, Davis, California.

U.C. 68-2. Reported to have originated in the Soviet Union; grown in Germany as Selection 166.

326600 to 327598. AVENA STERILIS L. Gramineae. Animated oats.

From Israel. Seeds presented by the Hebrew University of Jerusalem, Rehovot under P.L. 480 Project A10-CR-20. Numbered Apr. 9, 1968.

326600. 6-64-3-113.	326634. 6-76-3-123.
326601. 6-64-3-146.	326635. 6-76-3-124.
326602. 6-64-6-113.	326636. 6-76-3-126.
326603. 6-76-2-1a-102.	326637. 6-76-3-128.
326604. 6-76-2-1a-103.	326638. 6-76-3-129.
326605. 6-76-2-2a-101.	326639. 6-76-3-130.
326606. 6-76-2-2a-104.	326640. 6-76-3-132.
326607. 6-76-2-101.	326641. 6-76-3-135.
326608. 6-76-2-102.	326642. 6-76-3-138.
326609. 6-76-2-103.	326643. 6-76-3-142.
326610. 6-76-2-104.	326644. 6-76-3-143.
326611. 6-76-2-105.	326645. 6-76-3-144.
326612. 6-76-2-106.	326646. 6-76-3-145.
326613. 6-76-2-108.	326647. 6-76-3-149.
326614. 6-76-2-109.	326648. 6-76-3-150.
326615. 6-76-2-111.	326649. 6-76-3-151.
326616. 6-76-2-113.	326650. 6-76-3-152.
326617. 6-76-2-115.	326651. 6-76-3-154.
326618. 6-76-2-117.	326652. 6-76-3-155.
326619. 6-76-2-119.	326653. 6-76-3-156.
326620. 6-76-2-201.	326654. 6-76-3-157.
326621. 6-76-2-202.	326655. 6-76-3-158.
326622. 6-76-2-202.	326656. 6-76-3-159.
326623. 6-76-206.	326657. 6-76-3-160.
326624. 6-76-2-207.	326658. 6-76-3-162.
326625. 6-76-2-209.	326659. 6-76-3-163.
326626. 6-76-3-1-105-301.	326660. 6-76-3-164.
326627. 6-76-3-1-105-302.	326661. 6-76-3-166.
326628. 6-76-3-1-105-305.	326662. 6-76-3-168.
326629. 6-76-3-1-105-306.	326663. 6-76-3-202.
326630. 6-76-3-1-105-309.	326664. 6-76-3-204.
326631. 6-76-3-1-105-310.	326665. 6-76-3-205.
326632. 6-76-3-1-105-313.	326666. 6-76-3-207.
326633. 6-76-3-119.	326667. 6-76-3-208.

326600 to 327598—Continued

326668.	6-76-3-211.	326710.	6-174-5-3-104-310.
326669.	6-76-3-213.	326711.	6-174-5-3-104-312.
326670.	6-76-3-214.	326712.	6-174-5-3-105-301.
326671.	6-76-3-216.	326713.	6-174-5-3-105-302.
326672.	6-76-3-218.	326714.	6-174-5-3-105-304.
326673.	6-76-4-1a-102.	326715.	6-174-5-3-105-307.
326674.	6-76-4-1a-104.	326716.	6-174-5-5a-202.
326675.	6-76-4-1t-105.	326717.	6-174-5-6a-201.
326676.	6-76-4-1t-107.	326718.	6-174-5-6a-202.
326677.	6-76-4-1a-108.	326719.	6-174-5-6a-203.
326678.	6-76-4-1a-109.	326720.	6-174-5-104.
326679.	6-76-4-1a-110.	326721.	6-174-5-105.
326680.	6-76-4-1a-111.	326722.	6-174-5a-201.
326681.	6-76-4-1a-112.	326723.	6-174-306.
326682.	6-76-4-2-103-302.	326724.	6-180-1-115.
326683.	6-76-4-2-103-305.	326725.	6-630-103-201.
326684.	6-76-4-2-103-306.	326726.	6-630-103.
326685.	6-76-4-2-103-307.	326727.	6-688-3-101-401.
326686.	6-76-4-2-103-308.	326728.	6-688-3-101-403.
326687.	6-76-4-104.	326729.	6-688-3-101-404.
326688.	6-76-4-105.	326730.	6-688-3-101-405.
326689.	6-76-5-1a-106.	326731.	6-688-3-101-407.
326690.	6-76-5-1a-204.	326732.	6-688-3-101-408.
326691.	6-76-5-4-201.	326733.	6-688-3-101-411.
326692.	6-76-5-6a-101.	326734.	6-688-3-101-414.
326693.	6-76-5-6a-102.	326735.	6-688-3-101-416.
326694.	6-76-5-6a-103.	326736.	6-688-103-401.
326695.	6-76-5-6a-104.	326737.	6-688-103-402.
326696.	6-76-5-6a-108.	326738.	6-688-103-403.
326697.	6-76-5-6a-110.	326739.	6-688-103-404.
326698.	6-76-5-6a-111.	326740.	6-688-103-405.
326699.	6-76-5-105.	326741.	6-688-103-406.
326700.	6-101-4-101.	326742.	6-688-111-132.
326701.	6-110-1-178.	326743.	6-688-111-301.
326702.	6-174-5-2a-102.	326744.	6-688-111-311.
326703.	6-174-5-2a-202.	326745.	6-688-111-313.
326704.	6-174-5-2a-203.	326746.	6-952-101-312.
326705.	6-174-5-3-104-301.	326747.	6-952-108-301.
326706.	6-174-5-3-104-302.	326748.	6-952-108-302.
326707.	6-174-5-3-104-303.	326749.	6-952-108-303.
326708.	6-174-5-3-104-305.	326750.	6-952-108-305.
326709.	6-174-5-3-104-309.	326751.	6-952-108-306.

326600 to 327598—Continued

326752.	6-952-108-307.	326794.	6-1275-131-209.
326753.	6-952-108-308.	326795.	6-1277-104-302.
326754.	6-952-108-309.	326796.	6-1277-104-307.
326755.	6-952-108-310.	326797.	6-1277-118-402.
326756.	6-952-113-401.	326798.	6-1277-119-401.
326757.	6-952-113-405.	326799.	6-1304-116-407.
326758.	6-952-113-406.	326800.	6-1304-117-401.
326759.	6-952-113-409.	326801.	6-1304-117-407.
326760.	6-952-113-410.	326802.	6-1307-119-406.
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326784.	6-1197-112-407.	326826.	6-1462-114-403.
326785.	6-1197-112-409.	326827.	6-1462-114-406.
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326787.	6-1197-117-404.	326829.	6-1462-115-411.
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326791.	6-1253-104-304.	326833.	6-1462-119-408.
326792.	6-1272-131-307.	326834.	6-1462-119-411.
326793.	6-1275-131-208.	326835.	6-1462-119-415.

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326844.	6-1588-101-302.2.	326886.	6-1758-120-412.
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326869.	6-1744-115-401.	326911.	6-2129-417.
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327026.	6-2201-301.	327068.	6-2234.
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327035.	6-2207.	327077.	6-2238-302.
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327108.	6-2264-402.	327150.	6-2298-401.
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327186.	6-2323.	327228.	6-2355-401.
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327262.	6-2376-302.	327304.	6-2396-301.
327263.	6-2376-402.	327305.	6-2396-302.
327264.	6-2377.	327306.	6-2396-304.
327265.	6-2377-302.	327307.	6-2396-305.
327266.	6-2377-304.	327308.	6-2397.
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327268.	6-2378-301.	327310.	6-2397-302.
327269.	6-2378-302.	327311.	6-2397-303.
327270.	6-2378-404.	327312.	6-2397-304.
327271.	6-2379.	327313.	6-2398-301.
327272.	6-2379-402.	327314.	6-2398-303.
327273.	6-2379-403.	327315.	6-2399.
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327275.	6-2381-308.	327317.	6-2399-302.
327276.	6-2382-302.	327318.	6-2399-303.
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327279.	6-2383-302.	327321.	6-2400-302.
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327281.	6-2385-302.	327323.	6-2401-302.
327282.	6-2387-401.	327324.	6-2401-401.
327283.	6-2387-403.	327325.	6-2402.
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327287.	6-2390-401.	327329.	6-2403.
327288.	6-2391-301.	327330.	6-2403-305.
327289.	6-2391-401.	327331.	6-2403-306.
327290.	6-2392-302.	327332.	6-2403-307.
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327292.	6-2393-301.	327334.	6-2404-305.
327293.	6-2393-302.	327335.	6-2404-306.
327294.	6-2393-303.	327336.	6-2404-307.
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327343.	6-2407-303.	327385.	6-2423-402.
327344.	6-2407-304.	327386.	6-2423-403.
327345.	6-2410.	327387.	6-2424.
327346.	6-2410-303.	327388.	6-2424-301.
327347.	6-2411.	327389.	6-2424-401.
327348.	6-2411-301.	327390.	6-2425.
327349.	6-2411-302.	327391.	6-2425-301.
327350.	6-2412-301.	327392.	6-2425-302
327351.	6-2412-403.	327393.	6-2425-401.
327352.	6-2413.	327394.	6-2426.
327353.	6-2413-301.	327395.	6-2426-401.
327354.	6-2413-302.	327396.	6-2426-403.
327355.	6-2413-303.	327397.	6-2427.
327356.	6-2413-401.	327398.	6-2427-301.
327357.	6-2414.	327399.	6-2427-302.
327358.	6-2414-301.	327400.	6-2427-401.
327359.	6-2414-302.	327401.	6-2427-402.
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327363.	6-2416.	327405.	6-2429-302.
327364.	6-2416-403.	327406.	6-2429-304.
327365.	6-2417.	327407.	6-2429-401.
327366.	6-2417-301.	327408.	6-2430.
327367.	6-2417-302.	327409.	6-2430-301.
327368.	6-2417-303.	327410.	6-2430-401.
327369.	6-2417-304.	327411.	6-2431.
327370.	6-2418.	327412.	6-2431-302.
327371.	6-2418-301.	327413.	6-2432.
327372.	6-2418-302.	327414.	6-2432-301.
327373.	6-2418-401.	327415.	6-2432-401.
327374.	6-2419.	327416.	6-2432-402.
327375.	6-2419-301.	327417.	6-2432-403.
327376.	6-2419-402.	327418.	6-2433.
327377.	6-2420.	327419.	6-2433-301.
327378.	6-2420-301.	327420.	6-2433-302.
327379.	6-2420-403.	327421.	6-2433-303.
327380.	6-2421-301.	327422.	6-2433-305.
327381.	6-2421-302.	327423.	6-2433-401.

326600 to 327598—Continued

327424.	6-2434.	327466.	6-2451-301.
327425.	6-2434-401.	327467.	6-2452.
327426.	6-2434-402.	327468.	6-2452-403.
327427.	6-2435.	327469.	6-2452-404.
327428.	6-2435-401.	327470.	6-2453.
327429.	6-2435-402.	327471.	6-2453-403.
327430.	6-2435-403.	327472.	6-2453-404.
327431.	6-2436.	327473.	6-2453-406.
327432.	6-2436-304.	327474.	6-2454.
327433.	6-2436-401.	327475.	6-2454-401.
327434.	6-2438.	327476.	6-2454-402.
327435.	6-2438-301.	327477.	6-2454-403.
327436.	6-2438-401.	327478.	6-2454-404.
327437.	6-2438-402.	327479.	6-2455.
327438.	6-2438-403.	327480.	6-2455-305.
327439.	6-2439-301.	327481.	6-2455-402.
327440.	6-2439-401.	327482.	6-2456.
327441.	6-2440.	327483.	6-2456-401.
327442.	6-2440-302.	327484.	6-2456-402.
327443.	6-2441.	327485.	6-2457-301.
327444.	6-2441-302.	327486.	6-2458.
327445.	6-2441-401.	327487.	6-2458-302.
327446.	6-2443-301.	327488.	6-2458-303.
327447.	6-2444.	327489.	6-2458-401.
327448.	6-2444-302.	327490.	6-2458-402.
327449.	6-2446.	327491.	6-2458-403.
327450.	6-2446-301.	327492.	6-2458-404.
327451.	6-2447.	327493.	6-2461.
327452.	6-2447-401.	327494.	6-2463-302.
327453.	6-2447-402.	327495.	6-2465.
327454.	6-2447-403.	327496.	6-2465-301.
327455.	6-2447-404.	327497.	6-2465-401.
327456.	6-2448-301.	327498.	6-2465-402.
327457.	6-2448-402.	327499.	6-2466.
327458.	6-2448-403.	327500.	6-2466-301.
327459.	6-2449-401.	327501.	6-2467.
327460.	6-2449-402.	327502.	6-2467-302.
327461.	6-2449-404.	327503.	6-2467-303.
327462.	6-2450.	327504.	6-2467-308.
327463.	6-2450-302.	327505.	6-2467-405.
327464.	6-2450-402.	327506.	6-2468-302.
327465.	6-2451.	327507.	6-2470.

326600 to 327598—Continued

327508.	6-2470-401.	327550.	6-2489-301.
327509.	6-2471-401.	327551.	6-2489-302.
327510.	6-2473-401.	327552.	6-2489-303.
327511.	6-2473-402.	327553.	6-2489-404.
327512.	6-2473-403.	327554.	6-2490.
327513.	6-2474-401.	327555.	6-2490-401.
327514.	6-2474-402.	327556.	6-2490-403.
327515.	6-2475-402.	327557.	6-2491-301.
327516.	6-2478.	327558.	6-2491-402.
327517.	6-2478-402.	327559.	6-2492.
327518.	6-2479.	327560.	6-2492-302.
327519.	6-2479-301.	327561.	6-2492-401.
327520.	6-2479-401.	327562.	6-2493.
327521.	6-2479-402.	327563.	6-2493-401.
327522.	6-2479-403.	327564.	6-2494-302.
327523.	6-2480-301.	327565.	6-2494-401.
327524.	6-2480-401.	327566.	6-2496.
327525.	6-2480-402.	327567.	6-2496-301.
327526.	6-2481-301.	327568.	6-2496-302.
327527.	6-2481-401.	327569.	6-2496-401.
327528.	6-2482.	327570.	6-2496-402.
327529.	6-2482-301.	327571.	6-2496-403.
327530.	6-2482-302.	327572.	6-2497-301.
327531.	6-2482-303.	327573.	6-2497-303.
327532.	6-2482-401.	327574.	6-2497-401.
327533.	6-2483-401.	327575.	6-2498.
327534.	6-2484-301.	327576.	6-2498-401.
327535.	6-2484-401.	327577.	6-2499-401.
327536.	6-2484-403.	327578.	6-2499-402.
327537.	6-2484-404.	327579.	6-2500-301.
327538.	6-2485-401.	327580.	6-2503.
327539.	6-2486.	327581.	6-2503-301.
327540.	6-2486-301.	327582.	6-2504-301.
327541.	6-2486-302.	327583.	6-2505-301.
327542.	6-2486-303.	327584.	6-2505-303.
327543.	6-2486-304.	327585.	6-2505-401.
327544.	6-2486-305.	327586.	6-2505-403.
327545.	6-2487-401.	327587.	6-2506.
327546.	6-2488.	327588.	6-2507.
327547.	6-2488-301.	327589.	6-2507-301.
327548.	6-2488-402.	327590.	6-2507-303.
327549.	6-2488-403.	327591.	6-2507-304.

326600 to 327598—Continued

327592.	6-2508-301.	327596.	6-2509-401.
327593.	6-2508-302.	327597.	6-2510-302.
327594.	6-2508-403.	327598.	6-2510-401.
327595.	6-2509-303.		

327599 to 327892. HORDEUM VULGARE L. Gramineae.

From Canada. Seeds presented by B. L. Harvey, University of Saskatchewan, Saskatoon. Countries of origin as indicated. Numbered Apr. 10, 1968.

From Bulgaria.

327599.	H Hor 2289/63.	'No. 16'.
327600.	H Hor 2290/63.	'No. 18'.
327601.	H Hor 2291/63.	'No. 1241'.
327602.	H Hor 2292/63.	'No. 1337'.

From Czechoslovakia.

327603.	H Hor 3184/66.	'Stupicky Sestirady'.
327604.	H Hor 3185/66.	'Stupicky'.
327605.	H Hor 3187/66.	'Pavlovicky'.

Land races.

327606.	H Hor 3484/65.
327607.	H Hor 3485/65.

From Hungary.

327608.	H Hor 3518/64.	'Beta Ketsoras'.
327609.	H Hor 2287/66.	'Beta 40'.
327610.	H Hor 2288/66.	'Mezohegyesi 68'.
327611.	H Hor 2296/63.	'Bankuti 9'.
327612.	H Hor 3085/66.	'Godolloi 98'.
327613.	H Hor 3087/66.	'Pusztafoldvar tf'.
327614.	H Hor 3189/66.	'Ledeci 324'.
327615.	H Hor 3190/66.	'Mezohegyesi'.
327616.	H Hor 2286/63.	'Karcagi 1039'.
327617.	H Hor 2240/64.	'Hatvani 445'.
327618.	H Hor 3476-65.	'Karcagi 39'.
327619.	H Hor 3479/65.	'Antoninski SWHN'.
327620.	H Hor 3207/66.	'Grodkowicki'.
327621.	H Hor 3077/66.	'Kostek'.
327622.	H Hor 3079/66.	'Kujawiak'.
327623.	H Hor 3480/65.	'Kujawiak II'.
327624.	H Hor 3477/65.	'Lagiewnicki'.
327625.	H Hor 3481/65.	'Mikulicki Wczesny'.
327626.	H Hor 3478/65.	'Piast'.
327627.	H Hor 3212/66.	'Slaski I'.
327628.	H Hor 3081/66.	'Slaski II'.
327629.	H Hor 3214/66.	'Urbanowicki'.

327599 to 327892—Continued

327630. H Hor 3200/64. 'W.R. 65 Grodkowice'.
327631. H Hor 3076/66. 'W.R. 112 Grodkowice'.
From Rumania.
327632. H Hor. 1118/64. 'Bishor-Central'.
327633. H Hor 3191/66. 'Cenad 345'.
327634. H Hor 2315/66. 'Cenad 395'.
327635. H Hor 2316/66. 'Cenad 396'.
327636. H Hor 3306/65. 'Cenad 399'.
327637. H Hor 3515/64. 'Cenad 450'.
327638. H Hor 1339/63. 'Chissinau-Arad'.
From the Soviet Union.
327639. H Hor 3492/64. 'Chasyly'.
327640. H Hor 3296/65. 'Chordzau Mestnyj'.
327641. H Hor 3238/66. 'Chordzau 18 (Pallidum 18)'.
327642. H Hor 3215/66. 'Dagestanskij (Samuricum 239)'.
327643. H Hor 1119/64. 'Don'.
327644. H Hor 3216/66. 'Dzau-Bapust Mestnyj'.
327645. H Hor 3217/66. 'Dzveltesli Mestnyj'.
327646. H Hor 3318/65. 'Gasavjurtovskij'.
327647. H Hor 3219/66. 'Giaginskij 395'.
327648. H Hor 3256/64. 'Hibernaculum 9006'.
327649. H Hor 3490/64. 'Hibernaculum 2664'.
327650. H Hor 3493/64. 'Jubilejnyj 25'.
327651. H Hor 3221/66. 'Karsinskij'.
327652. H Hor 3222/66. 'Kirgizskij 247 (Pallidum 247)'.
327653. H Hor 3225/66. 'Krasnyj Dar (Pallidum 2494)'.
327654. H Hor 3316/65. 'Krasnodarskij 38'.
327655. H Hor 3223/66. 'Krasnodarskij 1918'.
327656. H Hor 3224/66. 'Krasnodarskij 2929'.
327657. H Hor 3226/66. 'Moldavskij 12'.
327658. H Hor 3227/66. 'Nachcyvandany' (Pallidum 310/1)'.
327659. H Hor 3080/66. 'Odoskij 17'.
327660. H Hor 2294/63. 'Pallidum 16'.
327661. H Hor 3229/66. 'Pallidum 48'.
327662. H Hor 3230/66. 'Pallidum 187'.
327663. H Hor 3231/66. 'Pallidum 330/2'.
327664. H Hor 3335/65. 'Pallidum 475'.
327665. H Hor 25/64. 'Poltawa'.
327666. H Hor 3240/66. 'Scireckij'.
327667. H Hor 3236/66. 'Urozajnyj'.
327668. H Hor 3239/66. 'Sirvandany (Pallidum 629/9)'.
327669. H Hor 3258/64. 'Leninakanskij'.

327599 to 327892—Continued

327670. H Hor 3308/65. 'Cernigovskij 5'.
 327671. H Hor 3096/65. 'Kinel' skij 5'.
 327672. H Hor 3309/65. 'Nemicinovskij'.
 327673. H Hor 3310/65. 'Nutans 115'.
 327674. H Hor 3234/66. 'Stavropol' skij 7'.
 327675. H Hor 3311/65. 'Umanskij'.
 327676. H Hor 3235/66. 'Unumli-Arpa'.
 327677. H Hor 3232/66. 'Persicum 64'.

Landraces.

- | | |
|------------------------|------------------------|
| 327678. H Hor 3322/65. | 327711. H Hor 3319/65. |
| 327679. H Hor 3323/65. | 327712. H Hor 3320/65. |
| 327680. H Hor 3324/65. | 327713. H Hor 3321/65. |
| 327681. H Hor 3328/65. | 327714. H Hor 3325/65. |
| 327682. H Hor 3329/65. | 327715. H Hor 3326/65. |
| 327683. H Hor 3330/65. | 327716. H Hor 3327/65. |
| 327684. H Hor 3331/65. | 327717. H Hor 3332/65. |
| 327685. H Hor 3356/65. | 327718. H Hor 3333/65. |
| 327686. H Hor 3382/65. | 327719. H Hor 3333/65. |
| 327687. H Hor 3383/65. | 327720. H Hor 3336/65. |
| 327688. H Hor 3383/65. | 327721. H Hor 3337/65. |
| 327689. H Hor 3386/65. | 327722. H Hor 3338/65. |
| 327690. H Hor 3387/65. | 327723. H Hor 3339/65. |
| 327691. H Hor 3384/65. | 327724. H Hor 3342/65. |
| 327692. H Hor 3385/65. | 327725. H Hor 3344/65. |
| 327693. H Hor 3388/65. | 327726. H Hor 3343/65. |
| 327694. H Hor 3389/65. | 327727. H Hor 3345/65. |
| 327695. H Hor 3390/65. | 327728. H Hor 3352/65. |
| 327696. H Hor 3391/65. | 327729. H Hor 3353/65. |
| 327697. H Hor 3408/65. | 327730. H Hor 3357/65. |
| 327698. H Hor 3418/65. | 327731. H Hor 3358/65. |
| 327699. H Hor 3419/65. | 327732. H Hor 3359/65. |
| 327700. H Hor 3421/65. | 327733. H Hor 3360/65. |
| 327701. H Hor 3420/65. | 327734. H Hor 3361/65. |
| 327702. H Hor 3422/65. | 327735. H Hor 3362/65. |
| 327703. H Hor 3423/65. | 327736. H Hor 3363/65. |
| 327704. H Hor 3424/65. | 327737. H Hor 3364/65. |
| 327705. H Hor 3425/65. | 327738. H Hor 3365/65. |
| 327706. H Hor 3426/65. | 327739. H Hor 3366/65. |
| 327707. H Hor 3427/65. | 327740. H Hor 3367/65. |
| 327708. H Hor 3429/65. | 327741. H Hor 3368/65. |
| 327709. H Hor 3431/65. | 327742. H Hor 3369/65. |
| 327710. H Hor 3432/65. | 327743. H Hor 3370/65. |

327599 to 327892—Continued

327744.	H Hor 3371/65.	327786.	H Hor 3439/65.
327745.	H Hor 3372/65.	327787.	H Hor 3440/65.
327746.	H Hor 3373/65.	327788.	H Hor 3442/65.
327747.	H Hor 3374/65.	327789.	H Hor 3443/65.
327748.	H Hor 3375/65.	327790.	H Hor 3444/65.
327749.	H Hor 3376/65.	327791.	H Hor 3445/65.
327750.	H Hor 3377/65.	327792.	H Hor 3446/65.
327751.	H Hor 3378/65.	327793.	H Hor 3447/65.
327752.	H Hor 3379/65.	327794.	H Hor 3448/65.
327753.	H Hor 3380/65.	327795.	H Hor 3449/65.
327754.	H Hor 3381/65.	327796.	H Hor 3450/65.
327755.	H Hor 3392/65.	327797.	H Hor 3451/65.
327756.	H Hor 3393/65.	327798.	H Hor 3452/65.
327757.	H Hor 3394/65.	327799.	H Hor 3453/65.
327758.	H Hor 3395/65.	327800.	H Hor 3454/65.
327759.	H Hor 3396/65.	327801.	H Hor 3455/65.
327760.	H Hor 3397/65.	327802.	H Hor 3456/65.
327761.	H Hor 3398/65.	327803.	H Hor 3457/65.
327762.	H Hor 3399/65.	327804.	H Hor 3458/65.
327763.	H Hor 3400/65.	327805.	H Hor 3459/65.
327764.	H Hor 3401/65.	327806.	H Hor 3460/65.
327765.	H Hor 3402/65.	327807.	H Hor 3461/65.
327766.	H Hor 3403/65.	327808.	H Hor 3462/65.
327767.	H Hor 3404/65.	327809.	H Hor 3463/65.
327768.	H Hor 3405/65.	327810.	H Hor 3464/65.
327769.	H Hor 3406/65.	327811.	H Hor 3465/65.
327770.	H Hor 3407/65.	327812.	H Hor 3466/65.
327771.	H Hor 3409/65.	327813.	H Hor 3467/65.
327772.	H Hor 3410/65.	327814.	H Hor 3468/65.
327773.	H Hor 3411/65.	327815.	H Hor 3469/65.
327774.	H Hor 3413/65.	327816.	H Hor 3470/65.
327775.	H Hor 3414/65.	327817.	H Hor 3471/65.
327776.	H Hor 3415/65.	327818.	H Hor 3472/65.
327777.	H Hor 3416/65.	327819.	H Hor 3473/65.
327778.	H Hor 3417/65.	327820.	H Hor 3475/65.
327779.	H Hor 3428/65.	327821.	H Hor 3502/65.
327780.	H Hor 3433/65.	327822.	H Hor 3503/64.
327781.	H Hor 3434/65.	327823.	H Hor 3504/65.
327782.	H Hor 3435/65.	327824.	H Hor 3505/64.
327783.	H Hor 3436/65.	327825.	H Hor 3506/64.
327784.	H Hor 3437/65.	327826.	H Hor 3509/64.
327785.	H Hor 3438/65.	327827.	H Hor 3510/64.

327599 to 327892—Continued

327828.	H Hor 3511/64.	327856.	H Hor 4176/66.
327829.	H Hor 3512/64.	327857.	H Hor 4177/66.
327830.	H Hor 4094/66.	327858.	H Hor 4178/66.
327831.	H Hor 4099/66.	327859.	H Hor 4181/66.
327832.	H Hor 4100/66.	327860.	H Hor 4182/66.
327833.	H Hor 4101/66.	327861.	H Hor 4185/66.
327834.	H Hor 4142/66.	327862.	H Hor 4186/66.
327835.	H Hor 4143/66.	327863.	H Hor 4187/66.
327836.	H Hor 4144/66.	327864.	H Hor 4188/66.
327837.	H Hor 4152/66.	327865.	H Hor 3474/65.
327838.	H Hor 4154/66.	327866.	H Hor 4153/66.
327839.	H Hor 4155/66.	327867.	H Hor 2447/64.
327840.	H Hor 4157/66.	327868.	H Hor 4170/66.
327841.	H Hor 4158/66.	327869.	H Hor 4180/66.
327842.	H Hor 4159/66.	327870.	H Hor 4097/66.
327843.	H Hor 4160/66.	327871.	H Hor 3341/65.
327844.	H Hor 4161/66.	327872.	H Hor 3346/65.
327845.	H Hor 4162/66.	327873.	H Hor 3348/65.
327846.	H Hor 4163/66.	327874.	H Hor 3349/65.
327847.	H Hor 4164/66.	327875.	H Hor 3350/65.
327848.	H Hor 4165/66.	327876.	H Hor 3351/65.
327849.	H Hor 4167/66.	327877.	H Hor 3354/65.
327850.	H Hor 4168/66.	327878.	H Hor 3430/65.
327851.	H Hor 4169./66.	327879.	H Hor 4171/66.
327852.	H Hor 4172/66.	327880.	H Hor 4189/66.
327853.	H Hor 4173/66.	327881.	H Hor 4095/66.
327854.	H Hor 4174/66.	327882.	H Hor 4096/66.
327855.	H Hor 4175/66.		

Origin unknown.

327883.	H Hor 3240/66.	327888.	H Hor 3798/66.
327884.	H Hor 3541/65.	327889.	H Hor 4090/66.
327885.	H Hor 3788/66.	327890.	H Hor 4146/66.
327886.	H Hor 3792/66.	327891.	H Hor 4179/66.
327887.	H Hor 3794/66.	327892.	H Hor 4766/66.

327893 to 329134. HORDEUM sp. Gramineae.

From Israel. Seeds presented by the Hebrew University of Jerusalem, Rehovot, under P.L. 480 Project A10-CR-1. Numbered Apr. 11, 1968.

Accession numbers assigned to original seed by the Institut f. Kulturpflanzenforschung der Deutschen Akademie der Wissenschaften zu Berlin, Systematische Abteilung, Gatersleben, Germany.

327893.	A Hor 35/61.	327896.	A Hor 38/59.
327894.	A Hor 36/61.	327897.	A Hor 39/61.
327895.	A Hor 37/59.	327898.	A Hor 40/58.

327893 to 329134—Continued

327899.	A Hor 41-61.	327941.	A Hor 94/61.
327900.	A Hor 44/58.	327942.	A Hor 95/61.
327901.	A Hor 45/61.	327943.	A Hor 96/58.
327902.	A Hor 46/61.	327944.	A Hor 98/61.
327903.	A Hor 47/61.	327945.	A Hor 99/61.
327904.	A Hor 48/61.	327946.	A Hor 100/61.
327905.	A Hor 50/58.	327947.	A Hor 101/61.
327906.	A Hor 51/61.	327948.	A Hor 102/61.
327907.	A Hor 52/61.	327949.	A Hor 103/61.
327908.	A Hor 53/61.	327950.	A Hor 104/61.
327909.	A Hor 54/61.	327951.	A Hor 105/61.
327910.	A Hor 55/61.	327952.	A Hor 106/61.
327911.	A Hor 57/61.	327953.	A Hor 107/61.
327912.	A Hor 58/61.	327954.	A Hor 108/61.
327913.	A Hor 59/58.	327955.	A Hor 110/61.
327914.	A Hor 60/61.	327956.	A Hor 111/61.
327915.	A Hor 61/61.	327957.	A Hor 112/61.
327916.	A Hor 62/61.	327958.	A Hor 113/61.
327917.	A Hor 63/58.	327959.	A Hor 114/61.
327918.	A Hor 64/61.	327960.	A Hor 115/61.
327919.	A Hor 65/61.	327961.	A Hor 116/61.
327920.	A Hor 66/61.	327962.	A Hor 117/61.
327921.	A Hor 67/61.	327963.	A Hor 118/61.
327922.	A Hor 68/61.	327964.	A Hor 120/61.
327923.	A Hor 69/61.	327965.	A Hor 121/61.
327924.	A Hor 70/61.	327966.	A Hor 122/58.
327925.	A Hor 71/61.	327967.	A Hor 124/61.
327926.	A Hor 72/61.	327968.	A Hor 125/61.
327927.	A Hor 73/61.	327969.	A Hor 126/61.
327928.	A Hor 76/61.	327970.	A Hor 127/61.
327929.	A Hor 77/61.	327971.	A Hor 128/61.
327930.	A Hor 78/61.	327972.	A Hor 129/61.
327931.	A Hor 79/61.	327973.	A Hor 130/61.
327932.	A Hor 81/61.	327974.	A Hor 131/59.
327933.	A Hor 82/61.	327975.	A Hor 132/59.
327934.	A Hor 83/61.	327976.	A Hor 133/59.
327935.	A Hor 84/61.	327977.	A Hor 134/61.
327936.	A Hor 85/58.	327978.	A Hor 136/61.
327937.	A Hor 88/61.	327979.	A Hor 137/58.
327938.	A Hor 89/61.	327980.	A Hor 138/61.
327939.	A Hor 90/58.	327981.	A Hor 139/58.
327940.	A Hor 93/61.	327982.	A Hor 140/58.

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327983.	A Hor 141/58.	328025.	A Hor 204/57.
327984.	A Hor 143/60.	328026.	A Hor 205/61.
327985.	A Hor 144/58.	328027.	A Hor 207/58.
327986.	A Hor 147/61.	328028.	A Hor 209/58.
327987.	A Hor 152/59.	328029.	A Hor 211/58.
327988.	A Hor 155/58.	328030.	A Hor 212/58.
327989.	A Hor 156/58.	328031.	A Hor 214/61.
327990.	A Hor 157/58.	328032.	A Hor 215/61.
327991.	A Hor 158/58.	328033.	A Hor 216/61.
327992.	A Hor 159/61.	328034.	A Hor 218/61.
327993.	A Hor 160/61.	328035.	A Hor 219/61.
327994.	A Hor 164/61.	328036.	A Hor 220/61.
327995.	A Hor 165/58.	328037.	A Hor 221/61.
327996.	A Hor 166/58.	328038.	A Hor 222/58.
327997.	A Hor 170/59.	328039.	A Hor 223/61.
327998.	A Hor 171/61.	328040.	A Hor 224/58.
327999.	A Hor 174/61.	328041.	A Hor 225/61.
328000.	A Hor 175/61.	328042.	A Hor 226/61.
328001.	A Hor 176-61.	328043.	A Hor 227/61.
328002.	A Hor 178/61.	328044.	A Hor 228/61.
328003.	A Hor 179/61.	328045.	A Hor 231/58.
328004.	A Hor 180/61.	328046.	A Hor 232/58.
328005.	A Hor 182/61.	328047.	A Hor 233/58.
328006.	A Hor 183/61.	328048.	A Hor 234/58.
328007.	A Hor 185/61.	328049.	A Hor 235/61.
328008.	A Hor 186/61.	328050.	A Hor 238/61.
328009.	A Hor 187/61.	328051.	A Hor 239/61.
328010.	A Hor 188/61.	328052.	A Hor 240/61.
328011.	A Hor 189/61.	328053.	A Hor 241/61.
328012.	A Hor 190/61.	328054.	A Hor 242/61.
328013.	A Hor 191/61.	328055.	A Hor 243/61.
328014.	A Hor 192/61.	328056.	A Hor 244/61.
328015.	A Hor 193/58.	328057.	A Hor 245/61.
328016.	A Hor 194/61.	328058.	A Hor 246/61.
328017.	A Hor 195/61.	328059.	A Hor 247/61.
328018.	A Hor 197/61.	328060.	A Hor 248/61.
328019.	A Hor 198/61.	328061.	A Hor 249/61.
328020.	A Hor 199/61.	328062.	A Hor 250/61.
328021.	A Hor 200/61.	328063.	A Hor 252/61.
328022.	A Hor 201/61.	328064.	A Hor 253/61.
328023.	A Hor 202/58.	328065.	A Hor 254/58.
328024.	A Hor 203/61.	328066.	A Hor 255/61.

327893 to 329134—Continued

328067.	A Hor 256/61.	328109.	A Hor 314/61.
328068.	A Hor 257/61.	328110.	A Hor 315/61.
328069.	A Hor 259/61.	328111.	A Hor 316/61.
328070.	A Hor 260/60.	328112.	A Hor 317/61.
328071.	A Hor 261/60.	328113.	A Hor 318/61.
328072.	A Hor 264/61.	328114.	A Hor 320/61.
328073.	A Hor 265/61.	328115.	A Hor 321/61.
328074.	A Hor 269/61.	328116.	A Hor 322/58.
328075.	A Hor 270/61.	328117.	A Hor 323/61.
328076.	A Hor 271/61.	328118.	A Hor 324/58.
328077.	A Hor 272/61.	328119.	A Hor 326/61.
328078.	A Hor 273/61.	328120.	A Hor 327/61.
328079.	A Hor 274/61.	328121.	A Hor 328/61.
328080.	A Hor 276/61.	328122.	A Hor 329/58.
328081.	A Hor 277/61.	328123.	A Hor 330/58.
328082.	A Hor 278/61.	328124.	A Hor 331/61.
328083.	A Hor 279/61.	328125.	A Hor 333/61.
328084.	A Hor 280/61.	328126.	A Hor 335/61.
328085.	A Hor 281/58.	328127.	A Hor 336/58.
328086.	A Hor 282/61.	328128.	A Hor 337/58.
328087.	A Hor 285/61.	328129.	A Hor 338/61.
328088.	A Hor 287/61.	328130.	A Hor 341/61.
328089.	A Hor 288/61.	328131.	A Hor 343/61.
328090.	A Hor 289/61.	328132.	A Hor 344/58.
328091.	A Hor 290/61.	328133.	A Hor 345/58.
328092.	A Hor 291/61.	328134.	A Hor 346/58.
328093.	A Hor 292/61.	328135.	A Hor 347/58.
328094.	A Hor 293/61.	328136.	A Hor 348/58.
328095.	A Hor 294/61.	328137.	A Hor 349/61.
328096.	A Hor 295/57.	328138.	A Hor 350/58.
328097.	A Hor 296/58.	328139.	A Hor 351/58.
328098.	A Hor 297/61.	328140.	A Hor 352/58.
328099.	A Hor 298/61.	328141.	A Hor 353/58.
328100.	A Hor 300/61.	328142.	A Hor 354/61.
328101.	A Hor 303/61.	328143.	A Hor 358/61.
328102.	A Hor 306/61.	328144.	A Hor 359/60.
328103.	A Hor 307/58.	328145.	A Hor 361/61.
328104.	A Hor 309/58.	328146.	A Hor 363/61.
328105.	A Hor 310/61.	328147.	A Hor 364/61.
328106.	A Hor 311/61.	328148.	A Hor 365/61.
328107.	A Hor 312/61.	328149.	A Hor 366/61.
328108.	A Hor 313/58.	328150.	A Hor 367-61.

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328151.	A Hor 368/61.	328193.	A Hor 436/61.
328152.	A Hor 375/61.	328194.	A Hor 437/61.
328153.	A Hor 376/59.	328195.	A Hor 438/61.
328154.	A Hor 377/61.	328196.	A Hor 439-61.
328155.	A Hor 384-61.	328197.	A Hor 440/61.
328156.	A Hor 385-61.	328198.	A Hor 441/59.
328157.	A Hor 386/61.	328199.	A Hor 442/61.
328158.	A Hor 387/61.	328200.	A Hor 443/61.
328159.	A Hor 388/61.	328201.	A Hor 444/61.
328160.	A Hor 389/61.	328202.	A Hor 445/61.
328161.	A Hor 390/61.	328203.	A Hor 446/61.
328162.	A Hor 392/61.	328204.	A Hor 447/59.
328163.	A Hor 393/61.	328205.	A Hor 448/59.
328164.	A Hor 396/61.	328206.	A Hor 449/59.
328165.	A Hor 397/61.	328207.	A Hor 450/61.
328166.	A Hor 400/61.	328208.	A Hor 451/61.
328167.	A Hor 403/61.	328209.	A Hor 452-61.
328168.	A Hor 404/61.	328210.	A Hor 453/57.
328169.	A Hor 405/61.	328211.	A Hor 455/61.
328170.	A Hor 409/61.	328212.	A Hor 456/61.
328171.	A Hor 411/61.	328213.	A Hor 457/61.
328172.	A Hor 412/61.	328214.	A Hor 458/59.
328173.	A Hor 413-61.	328215.	A Hor 459/59.
328174.	A Hor 414/61.	328216.	A Hor 460/61.
328175.	A Hor 415/61.	328217.	A Hor 461/61.
328176.	A Hor 416/61.	328218.	A Hor 462/61.
328177.	A Hor 417/61.	328219.	A Hor 463/61.
328178.	A Hor 418/61.	328220.	A Hor 464/61.
328179.	A Hor 420/61.	328221.	A Hor 465/61.
328180.	A Hor 421/61.	328222.	A Hor 466/61.
328181.	A Hor 422/61.	328223.	A Hor 467/61.
328182.	A Hor 423/61.	328224.	A Hor 469/61.
328183.	A Hor 424/61.	328225.	A Hor 470/61.
328184.	A Hor 425/61.	328226.	A Hor 471/61.
328185.	A Hor 426/61.	328227.	A Hor 473/61.
328186.	A Hor 427/61.	328228.	A Hor 475/61.
328187.	A Hor 428/61.	328229.	A Hor 476/61.
328188.	A Hor 430/61.	328230.	A Hor 477/61.
328189.	A Hor 431/61.	328231.	A Hor 478/61.
328190.	A Hor 432/59.	328232.	A Hor 479-61.
328191.	A Hor 433/61.	328233.	A Hor 480/61.
328192.	A Hor 435/61.	328234.	A Hor 482/61.

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328235.	A Hor 483/61.	328277.	A Hor 532/59.
328236.	A Hor 484/61.	328278.	A Hor 534/59.
328237.	A Hor 485/61.	328279.	A Hor 535/59.
328238.	A Hor 486/61.	328280.	A Hor 537/61.
328239.	A Hor 487/61.	328281.	A Hor 538/61.
328240.	A Hor 488/61.	328282.	A Hor 539/61.
328241.	A Hor 489/61.	328283.	A Hor 540/59.
328242.	A Hor 490/61.	328284.	A Hor 541/61.
328243.	A Hor 491/61.	328285.	A Hor 542/61.
328244.	A Hor 492/61.	328286.	A Hor 543/61.
328245.	A Hor 494/61.	328287.	A Hor 544/59.
328246.	A Hor 495/61.	328288.	A Hor 545/61.
328247.	A Hor 496/61.	328289.	A Hor 546/61.
328248.	A Hor 497/61.	328290.	A Hor 547/61.
328249.	A Hor 498/61.	328291.	A Hor 548/61.
328250.	A Hor 499/61.	328292.	A Hor 549/61.
328251.	A Hor 501/61.	328293.	A Hor 550/61.
328252.	A Hor 502/61.	328294.	A Hor 551/59.
328253.	A Hor 503/59.	328295.	A Hor 552/61.
328254.	A Hor 504/59.	328296.	A Hor 553/59.
328255.	A Hor 506/59.	328297.	A Hor 554/59.
328256.	A Hor 507/61.	328298.	A Hor 555/59.
328257.	A Hor 508/61.	328299.	A Hor 556/59.
328258.	A Hor 510/61.	328300.	A Hor 557/59.
328259.	A Hor 511/61.	328301.	A Hor 558/59.
328260.	A Hor 512/57.	328302.	A Hor 559/60.
328261.	A Hor 513/61.	328303.	A Hor 560/59.
328262.	A Hor 514/59.	328304.	A Hor 562/59.
328263.	A Hor 515/57.	328305.	A Hor 563/59.
328264.	A Hor 516/61.	328306.	A Hor 564/61.
328265.	A Hor 517/61.	328307.	A Hor 566/61.
328266.	A Hor 518/61.	328308.	A Hor 567/61.
328267.	A Hor 519/61.	328309.	A Hor 568/61.
328268.	A Hor 520/61.	328310.	A Hor 571/61.
328269.	A Hor 521/61.	328311.	A Hor 572/61.
328270.	A Hor 524/61.	328312.	A Hor 573/61.
328271.	A Hor 526/61.	328313.	A Hor 574/61.
328272.	A Hor 527/61.	328314.	A Hor 578/61.
328273.	A Hor 528/57.	328315.	A Hor 579/61.
328274.	A Hor 529/61.	328316.	A Hor 580/61.
328275.	A Hor 530/61.	328317.	A Hor 581/61.
328276.	A Hor 531/59.	328318.	A Hor 582/61.

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328319.	A Hor 583/61.	328361.	A Hor 641/61.
328320.	A Hor 584/61.	328362.	A Hor 642/61.
328321.	A Hor 585/61.	328363.	A Hor 643/61.
328322.	A Hor 586/60.	328364.	A Hor 644/61.
328323.	A Hor 586/61.	328365.	A Hor 645/61.
328324.	A Hor 588/61.	328366.	A Hor 646/61.
328325.	A Hor 590/60.	328367.	A Hor 647/61.
328326.	A Hor 591/61.	328368.	A Hor 648/61.
328327.	A Hor 592/61.	328369.	A Hor 649/61.
328328.	A Hor 593/61.	328370.	A Hor 652/61.
328329.	A Hor 594/61.	328371.	A Hor 653/61.
328330.	A Hor 595/61.	328372.	A Hor 654/61.
328331.	A Hor 596/61.	328373.	A Hor 655/59.
328332.	A Hor 599/61.	328374.	A Hor 656/60.
328333.	A Hor 600/61.	328375.	A Hor 657/61.
328334.	A Hor 603/61.	328376.	A Hor 658/61.
328335.	A Hor 605/61.	328377.	A Hor 659/61.
328336.	A Hor 606/61.	328378.	A Hor 660/61.
328337.	A Hor 607/61.	328379.	A Hor 661/61.
328338.	A Hor 608/61.	328380.	A Hor 662/61.
328339.	A Hor 609/60.	328381.	A Hor 663/61.
328340.	A Hor 610/61.	328382.	A Hor 664/61.
328341.	A Hor 611/61.	328383.	A Hor 666-61.
328342.	A Hor 612/61.	328384.	A Hor 667/61.
328343.	A Hor 614/61.	328385.	A Hor 668/61.
328344.	A Hor 615/61.	328386.	A Hor 669/61.
328345.	A Hor 617/61.	328387.	A Hor 670/61.
328346.	A Hor 620/61.	328388.	A Hor 671/61.
328347.	A Hor 621/61.	328389.	A Hor 672/60.
328348.	A Hor 622/59.	328390.	A Hor 673/61.
328349.	A Hor 623/59.	328391.	A Hor 674/59.
328350.	A Hor 624/61.	328392.	A Hor 675/61.
328351.	A Hor 625/61.	328393.	A Hor 676/59.
328352.	A Hor 626/61.	328394.	A Hor 677/61.
328353.	A Hor 628/61.	328395.	A Hor 678/61.
328354.	A Hor 632/61.	328396.	A Hor 679/61.
328355.	A Hor 633/61.	328397.	A Hor 680/61.
328356.	A Hor 635/61.	328398.	A Hor 682/61.
328357.	A Hor 637/61.	328399.	A Hor 683/60.
328358.	A Hor 638/61.	328400.	A Hor 684/61.
328359.	A Hor 639/61.	328401.	A Hor 685-61.
328360.	A Hor 640/61.	328402.	A Hor 687/61.

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328403.	A Hor 688/61.	328445.	A Hor 932/60.
328404.	A Hor 689/61.	328446.	A Hor 933/60.
328405.	A Hor 690/61.	328447.	A Hor 934/60.
328406.	A Hor 691/61.	328448.	A Hor 935/60.
328407.	A Hor 692/61.	328449.	A Hor 936/60.
328408.	A Hor 693/61.	328450.	A Hor 938/60.
328409.	A Hor 694/61.	328451.	A Hor 940/59.
328410.	A Hor 695/61.	328452.	A Hor 941/60.
328411.	A Hor 696/61.	328453.	A Hor 942/60.
328412.	A Hor 697/61.	328454.	A Hor 943/61.
328413.	A Hor 698/61.	328455.	A Hor 944/60.
328414.	A Hor 699/61.	328456.	A Hor 945/60.
328415.	A Hor 700/61.	328457.	A Hor 946/60.
328416.	A Hor 701/61.	328458.	A Hor 948/59.
328417.	A Hor 703/61.	328459.	A Hor 949/60.
328418.	A Hor 704/61.	328460.	A Hor 950/59.
328419.	A Hor 705/61.	328461.	A Hor 951/60.
328420.	A Hor 706/61.	328462.	A Hor 953/59.
328421.	A Hor 707/61.	328463.	A Hor 954/59.
328422.	A Hor 708/61.	328464.	A Hor 955-59.
328423.	A Hor 709/61.	328465.	A Hor 957/60.
328424.	A Hor 810/61.	328466.	A Hor 958/60.
328425.	A Hor 711/61.	328467.	A Hor 959/60.
328426.	A Hor 712/61.	328468.	A Hor 960/60.
328427.	A Hor 713/61.	328469.	A Hor 961/60.
328428.	A Hor 714/61.	328470.	A Hor 963/60.
328429.	A Hor 715/61.	328471.	A Hor 964/60.
328430.	A Hor 786/61.	328472.	A Hor 965/61.
328431.	A Hor 918/61.	328473.	A Hor 967/60.
328432.	A Hor 919/60.	328474.	A Hor 969/59.
328433.	A Hor 920/60.	328475.	A Hor 970/59.
328434.	A Hor 921/61.	328476.	A Hor 971/60.
328435.	A Hor 922/60.	328477.	A Hor 1006/60.
328436.	A Hor 923/61.	328478.	A Hor 1110/59.
328437.	A Hor 924/60.	328479.	A Hor 1118/59.
328438.	A Hor 925/60.	328480.	A Hor 1122/59.
328439.	A Hor 926/61.	328481.	A Hor 1123/61.
328440.	A Hor 927/61.	328482.	A Hor 1126/61.
328441.	A Hor 928/60.	328483.	A Hor 1127/61.
328442.	A Hor 929/61.	328484.	A Hor 1129/61.
328443.	A Hor 930/61.	328485.	A Hor 1130/61.
328444.	A Hor 931/60.	328486.	A Hor 1131-59.

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328487.	A Hor 1132/61.	328529.	A Hor 1183/60.
328488.	A Hor 1134/59.	328530.	A Hor 1184/59.
328489.	A Hor 1135/59.	328531.	A Hor 1185/59.
328490.	A Hor 1137/61.	328532.	A Hor 1186/51.
328491.	A Hor 1138/59.	328533.	A Hor 1187/59.
328492.	A Hor 1139/61.	328534.	A Hor 1189/59.
328493.	A Hor 1140/59.	328535.	A Hor 1192/59.
328494.	A Hor 1141/61.	328536.	A Hor 1193/59.
328495.	A Hor 1142/57.	328537.	A Hor 1194/59.
328496.	A Hor 1143/61.	328538.	A Hor 1195/61.
328497.	A Hor 1144/61.	328539.	A Hor 1196/59.
328498.	A Hor 1145/61.	328540.	A Hor 1199/61.
328499.	A Hor 1146/59.	328541.	A Hor 1200/61.
328500.	A Hor 1147/59.	328542.	A Hor 1203/61.
328501.	A Hor 1148/59.	328543.	A Hor 1204/61.
328502.	A Hor 1149/59.	328544.	A Hor 1205/59.
328503.	A Hor 1150/61.	328545.	A Hor 1206/61.
328504.	A Hor 1153/57.	328546.	A Hor 1207/61.
328505.	A Hor 1156/61.	328547.	A Hor 1208/59.
328506.	A Hor 1157/59.	328548.	A Hor 1209/61.
328507.	A Hor 1158/59.	328549.	A Hor 1210/59.
328508.	A Hor 1159/61.	328550.	A Hor 1211/59.
328509.	A Hor 1160/59.	328551.	A Hor 1213-59.
328510.	A Hor 1161/61.	328552.	A Hor 1214/61.
328511.	A Hor 1162/61.	328553.	A Hor 1215/59.
328512.	A Hor 1163/61.	328554.	A Hor 1220/59.
328513.	A Hor 1164/59.	328555.	A Hor 1221/61.
328514.	A Hor 1165/57.	328556.	A Hor 1222/61.
328515.	A Hor 1166/60.	328557.	A Hor 1225/59.
328516.	A Hor 1167/59.	328558.	A Hor 1226/59.
328517.	A Hor 1168/59.	328559.	A Hor 1228/59.
328518.	A Hor 1169/59.	328560.	A Hor 1229/59.
328519.	A Hor 1170/59.	328561.	A Hor 1230/61.
328520.	A Hor 1171/61.	328562.	A Hor 1231/60.
328521.	A Hor 1172/59.	328563.	A Hor 1232/59.
328522.	A Hor 1174/61.	328564.	A Hor 1233/59.
328523.	A Hor 1175/61.	328565.	A Hor 1234/59.
328524.	A Hor 1176/61.	328566.	A Hor 1235/60.
328525.	A Hor 1177/61.	328567.	A Hor 1237/59.
328526.	A Hor 1179/59.	328568.	A Hor 1238/59.
328527.	A Hor 1180/59.	328569.	A Hor 1239/59.
328528.	A Hor 1182/59.	328570.	A Hor 1242/61.

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328571.	A Hor 1243/61.	328613.	A Hor 1305/61.
328572.	A Hor 1245/59.	328614.	A Hor 1306/60.
328573.	A Hor 1246/59.	328615.	A Hor 1307/61.
328574.	A Hor 1247/61.	328616.	A Hor 1308/61.
328575.	A Hor 1248/61.	328617.	A Hor 1309/61.
328576.	A Hor 1250/59.	328618.	A Hor 1311/60.
328577.	A Hor 1253/59.	328619.	A Hor 1312/61.
328578.	A Hor 1255/59.	328620.	A Hor 1357/58.
328579.	A Hor 1256/59.	328621.	A Hor 1364/58.
328580.	A Hor 1258/59.	328622.	A Hor 1365/59.
328581.	A Hor 1260/61.	328623.	A Hor 1366/60.
328582.	A Hor 1261/61.	328624.	A Hor 1367/60.
328583.	A Hor 1263/60.	328625.	A Hor 1368-58
328584.	A Hor 1266/61.	328626.	A Hor 1369/58.
328585.	A Hor 1267/59.	328627.	A Hor 1372/58.
328586.	A Hor 1268/61.	328628.	A Hor 1373/58.
328587.	A Hor 1269/59.	328629.	A Hor 1374/58.
328588.	A Hor 1271/61.	328630.	A Hor 1377/58.
328589.	A Hor 1272/61.	328631.	A Hor 1378/59.
328590.	A Hor 1273/61.	328632.	A Hor 1379/59.
328591.	A Hor 1276/61.	328633.	A Hor 1380/58.
328592.	A Hor 1277/61.	328634.	A Hor 1381/61.
328593.	A Hor 1278/61.	328635.	A Hor 1382/59.
328594.	A Hor 1280/61.	328636.	A Hor 1383/59.
328595.	A Hor 1281/61.	328637.	A Hor 1385/60.
328596.	A Hor 1284/60.	328638.	A Hor 1386/59.
328597.	A Hor 1285/61.	328639.	A Hor 1387/59.
328598.	A Hor 1287/61.	328640.	A Hor 1388/59.
328599.	A Hor 1288/57.	328641.	A Hor 1389/59.
328600.	A Hor 1289/61.	328642.	A Hor 1390/58.
328601.	A Hor 1291/61.	328643.	A Hor 1392/58.
328602.	A Hor 1292/61.	328644.	A Hor 1393/58.
328603.	A Hor 1293/61.	328645.	A Hor 1394/59.
328604.	A Hor 1294/61.	328646.	A Hor 1395/59.
328605.	A Hor 1296/61.	328647.	A Hor 1396/59.
328606.	A Hor 1297/61.	328648.	A Hor 1397/59.
328607.	A Hor 1299/61.	328649.	A Hor 1401/59.
328608.	A Hor 1300/61.	328650.	A Hor 1402/59.
328609.	A Hor 1301/61.	328651.	A Hor 1405/61.
328610.	A Hor 1302/61.	328652.	A Hor 1406/59.
328611.	A Hor 1303/57.	328653.	A Hor 1407/59.
328612.	A Hor 1304/61.	328654.	A Hor 1408/59.

327893 to 329134—Continued

328655.	A Hor 1409/59.	328697.	A Hor 1502/58.
328656.	A Hor 1410/60.	328698.	A Hor 1503/58.
328657.	A Hor 1411/60.	328699.	A Hor 1506/58.
328658.	A Hor 1412/59.	328700.	A Hor 1507/58.
328659.	A Hor 1413/60.	328701.	A Hor 1508/58.
328660.	A Hor 1415/60.	328702.	A Hor 1509/58.
328661.	A Hor 1416/60.	328703.	A Hor 1519/58.
328662.	A Hor 1419/58.	328704.	A Hor 1522/58.
328663.	A Hor 1421/58.	328705.	A Hor 1524/58.
328664.	A Hor 1422/58.	328706.	A Hor 1527/58.
328665.	A Hor 1423/60.	328707.	A Hor 1534/58.
328666.	A Hor 1425/58.	328708.	A Hor 1538/58.
328667.	A Hor 1426/58.	328709.	A Hor 1541/61.
328668.	A Hor 1427/58.	328710.	A Hor 1593/58.
328669.	A Hor 1428/58.	328711.	A Hor 1617/58.
328670.	A Hor 1429/58.	328712.	A Hor 1630/58.
328671.	A Hor 1430/58.	328713.	A Hor 1631/58.
328672.	A Hor 1432/58.	328714.	A Hor 1634/58.
328673.	A Hor 1433/60.	328715.	A Hor 1635/58.
328674.	A Hor 1434/58.	328716.	A Hor 1640/58.
328675.	A Hor 1435/58.	328717.	A Hor 1718/59.
328676.	A Hor 1436/58.	328718.	A Hor 1726/58.
328677.	A Hor 1437/58.	328719.	A Hor 1729/58.
328678.	A Hor 1440/58.	328720.	A Hor 1773/60.
328679.	A Hor 1441/58.	328721.	A Hor 1774/61.
328680.	A Hor 1442/58.	328722.	A Hor 1775/60.
328681.	A Hor 1443/58.	328723.	A Hor 1776/60.
328682.	A Hor 1444/58.	328724.	A Hor 1779/60.
328683.	A Hor 1446/61.	328725.	A Hor 1781/61.
328684.	A Hor 1448/58.	328726.	A Hor 1786/61.
328685.	A Hor 1452/58.	328727.	A Hor 1788/60.
328686.	A Hor 1457/58.	328728.	A Hor 1790/60.
328687.	A Hor 1458/58.	328729.	A Hor 1791/60.
328688.	A Hor 1461/60.	328730.	A Hor 1792/60.
328689.	A Hor 1466/59.	328731.	A Hor 1798/61.
328690.	A Hor 1481/58.	328732.	A Hor 1799/61.
328691.	A Hor 1483/61.	328733.	A Hor 1800/61.
328692.	A Hor 1485/58.	328734.	A Hor 1801/61.
328693.	A Hor 1489/58.	328735.	A Hor 1862/60.
328694.	A Hor 1493/58.	328736.	A Hor 1863/60.
328695.	A Hor 1500/58.	328737.	A Hor 1865/61.
328696.	A Hor 1501/58.	328738.	A Hor 1866/60.

327893 to 329134—Continued

328739. A Hor 1868/62.	328781. A Hor 1924/61.
328740. A Hor 1869/61.	328782. A Hor 1925/61.
328741. A Hor 1870/60.	328783. A Hor 1926/61.
328742. A Hor 1871/60.	328784. A Hor 1931/61.
328743. A Hor 1872/60.	328785. A Hor 1937/61.
328744. A Hor 1873/60.	328786. A Hor 1939/61.
328745. A Hor 1874/60.	328787. A Hor 1941/61.
328746. A Hor 1875/60.	328788. A Hor 1942/61.
328747. A Hor 1876/60.	328789. A Hor 1944/61.
328748. A Hor 1878/60.	328790. A Hor 1945/60.
328749. A Hor 1879/60.	328791. A Hor 1949/61.
328750. A Hor 1881/61.	328792. A Hor 1951/61.
328751. A Hor 1882/58.	328793. A Hor 1952/60.
328752. A Hor 1883/60.	328794. A Hor 1953/61.
328753. A Hor 1886/60.	328795. A Hor 1956/58.
328754. A Hor 1887/60.	328796. A Hor 1957/60.
328755. A Hor 1891/60.	328797. A Hor 1958/60.
328756. A Hor 1892/60.	328798. A Hor 1960/60.
328757. A Hor 1894/60.	328799. A Hor 1962/60.
328758. A Hor 1895/60.	328800. A Hor 1963/60.
328759. A Hor 1897/60.	328801. A Hor 1966/61.
328760. A Hor 1898/60.	328802. A Hor 1970/60.
328761. A Hor 1899/60.	328803. A Hor 1973/60.
328762. A Hor 1900/60.	328804. A Hor 2092/58.
328763. A Hor 1901/61.	328805. A Hor 2175/58.
328764. A Hor 1902/59.	328806. A Hor 2176/58.
328765. A Hor 1903/60.	328807. A Hor 2177/58.
328766. A Hor 1904/61.	328808. A Hor 2178/58.
328767. A Hor 1905/60.	328809. A Hor 2179/58.
328768. A Hor 1906/61.	328810. A Hor 2180/58.
328769. A Hor 1907/61.	328811. A Hor 2181/58.
328770. A Hor 1908/60.	328812. A Hor 2182/58.
328771. A Hor 1909/60.	328813. A Hor 2183/58.
328772. A Hor 1910/60.	328814. A Hor 2184/58.
328773. A Hor 1912/60.	328815. A Hor 2185/58.
328774. A Hor 1914/61.	328816. A Hor 2186/58.
328775. A Hor 1915/60.	328817. A Hor 2187/58.
328776. A Hor 1917/61.	328818. A Hor 2188/58.
328777. A Hor 1918/61.	328819. A Hor 2189/58.
328778. A Hor 1919/61.	328820. A Hor 2190-58.
328779. A Hor 1922/60.	328821. A Hor 2191/58.
328780. A Hor 1923/60.	328822. A Hor 2192/58.

327893 to 329134—Continued

328823.	A Hor 2193/58.	328865.	A Hor 2258/61.
328824.	A Hor 2195/58.	328866.	A Hor 2259/61.
328825.	A Hor 2197/58.	328867.	A Hor 2263/61.
328826.	A Hor 2198/58.	328868.	A Hor 2264/60.
328827.	A Hor 2200/58.	328869.	A Hor 2265/61.
328828.	A Hor 2201/58.	328870.	A Hor 2322/58.
328829.	A Hor 2202/58.	328871.	A Hor 2327/58.
328830.	A Hor 2203/58.	328872.	A Hor 2328/58.
328831.	A Hor 2204/58.	328873.	A Hor 2330/58.
328832.	A Hor 2205/58.	328874.	A Hor 2331/58.
328833.	A Hor 2206/58.	328875.	A Hor 2333/58.
328834.	A Hor 2208/58.	328876.	A Hor 2334/58.
328835.	A Hor 2209/58.	328877.	A Hor 2336/58.
328836.	A Hor 2211/58.	328878.	A Hor 2338/58.
328837.	A Hor 2212/58.	328879.	A Hor 2340/58.
328838.	A Hor 2213/58.	328880.	A Hor 2342/58.
328839.	A Hor 2214/58.	328881.	A Hor 2345/58.
328840.	A Hor 2215/58.	328882.	A Hor 2346/58.
328841.	A Hor 2216/58.	328883.	A Hor 2347/58.
328842.	A Hor 2217/58.	328884.	A Hor 2349/58.
328843.	A Hor 2218/58.	328885.	A Hor 2350/58.
328844.	A Hor 2219/59.	328886.	A Hor 2351/58.
328845.	A Hor 2221/58.	328887.	A Hor 2353/59.
328846.	A Hor 2222/58.	328888.	A Hor 2354/58.
328847.	A Hor 2223/58.	328889.	A Hor 2357/58.
328848.	A Hor 2224/58.	328890.	A Hor 2358/58.
328849.	A Hor 2225/58.	328891.	A Hor 2360/60.
328850.	A Hor 2226/58.	328892.	A Hor 2361/58.
328851.	A Hor 2227/58.	328893.	A Hor 2364/58.
328852.	A Hor 2229/58.	328894.	A Hor 2365/58.
328853.	A Hor 2230/58.	328895.	A Hor 2366/58.
328854.	A Hor 2231/58.	328896.	A Hor 2368/58.
328855.	A Hor 2232/58.	328897.	A Hor 2369/58.
328856.	A Hor 2244/61.	328898.	A Hor 2370/58.
328857.	A Hor 2245/61.	328899.	A Hor 2372/58.
328858.	A Hor 2246/61.	328900.	A Hor 2374/61.
328859.	A Hor 2249/61.	328901.	A Hor 2380/58.
328860.	A Hor 2252/61.	328902.	A Hor 2382/58.
328861.	A Hor 2253/61.	328903.	A Hor 2383/61.
328862.	A Hor 2254/61.	328904.	A Hor 2384/58.
328863.	A Hor 2256/61.	328905.	A Hor 2385/58.
328864.	A Hor 2257/61.	328906.	A Hor 2386/58.

327893 to 329134—Continued

328907.	A Hor 2387/60.	328949.	A Hor 2490/58.
328908.	A Hor 2388/58.	328950.	A Hor 2491/58.
328909.	A Hor 2389/58.	328951.	A Hor 2492/58.
328910.	A Hor 2390/58.	328952.	A Hor 2493/58.
328911.	A Hor 2391/58.	328953.	A Hor 2494/58.
328912.	A Hor 2392/58.	328954.	A Hor 2496/58.
328913.	A Hor 2397/61.	328955.	A Hor 2497/58.
328914.	A Hor 2398/61.	328956.	A Hor 2498/58.
328915.	A Hor 2399/58.	328957.	A Hor 2499/58.
328916.	A Hor 2400/58.	328958.	A Hor 2502/60.
328917.	A Hor 2401/58.	328959.	A Hor 2503/61.
328918.	A Hor 2402/58.	328960.	A Hor 2504/60.
328919.	A Hor 2404/58.	328961.	A S 100/60.
328920.	A Hor 2405/58.	328962.	A S 106/60.
328921.	A Hor 2407/58.	328963.	A S 107/60.
328922.	A Hor 2409/58.	328964.	A S 109/60.
328923.	A Hor 2410/58.	328965.	A S 112/60.
328924.	A Hor 2414/58.	328966.	A S 114/60.
328925.	A Hor 2415/58.	328967.	A S 115/60.
328926.	A Hor 2417/58.	328968.	A S 117/60.
328927.	A Hor 2419/58.	328969.	A S 119/60.
328928.	A Hor 2427/58.	328970.	A S 120/60.
328929.	A Hor 2441/58.	328971.	A S 121/60.
328930.	A Hor 2442/58.	328972.	A S 122/60.
328931.	A Hor 2469/59.	328973.	A S 126/60.
328932.	A Hor 2470/61.	328974.	A S 127/60.
328933.	A Hor 2471/60.	328975.	A S 129/60.
328934.	A Hor 2472/61.	328976.	A S 139/60.
328935.	A Hor 2473/61.	328977.	A S 140/60.
328936.	A Hor 2474/61.	328978.	A S 141/60.
328937.	A Hor 2476/61.	328979.	A S 144/60.
328938.	A Hor 2477/61.	328980.	A S 146/60.
328939.	A Hor 2478/61.	328981.	A S 147/60.
328940.	A Hor 2479/61.	328982.	A S 148/60.
328941.	A Hor 2480/61.	328983.	A S 152/60.
328942.	A Hor 2482/58.	328984.	A S 155/60.
328943.	A Hor 2483/58.	328985.	A S 156/60.
328944.	A Hor 2484/58.	328986.	A S 157/60.
328945.	A Hor 2486/58.	328987.	A S 160/60.
328946.	A Hor 2487/58.	328988.	A S 162/60.
328947.	A Hor 2488/58.	328989.	A S 163/60.
328948.	A Hor 2489/58.	328990.	A S 199/60.

327893 to 329134—Continued

328991.	A S 3166/61.	329033.	H Hor 1010/59.
328992.	A S 3171/61.	329034.	H Hor 1012/59.
328993.	A S 3173/61.	329035.	H Hor 1013/61.
328994.	A S 3176/61.	329036.	H Hor 1016/59.
328995.	A S 3178/61.	329037.	H Hor 1018/59.
328996.	A S 3180/61.	329038.	H Hor 1019/59.
328997.	A S 3185/61.	329039.	H Hor 1020/59.
328998.	A S 3187/61.	329040.	H Hor 1022/59.
328999.	A S 3191/61.	329041.	H Hor 1025/59.
329000.	A S 3192/61.	329042.	H Hor 1027/59.
329001.	A S 3193/61.	329043.	H Hor 1028/59.
329002.	A S 3195/61.	329044.	H Hor 1032/59.
329003.	A S 3198/61.	329045.	H Hor 1033/59.
329004.	A S 3201/61.	329046.	H Hor 1034/59.
329005.	A S 3204/61.	329047.	H Hor 1035/59.
329006.	A S 3205/61.	329048.	H Hor 1037/59.
329007.	A S 3206/61.	329049.	H Hor 1039/59.
329008.	H Hor 16/61.	329050.	H Hor 1041/59.
329009.	H Hor 401-59.	329051.	H Hor 1042/59.
329010.	H Hor 402/59.	329052.	H Hor 1043/59.
329011.	H Hor 976/59.	329053.	H Hor 1044/61.
329012.	H Hor 977/59.	329054.	H Hor 1046/59.
329013.	H Hor 978/59.	329055.	H Hor 1047/59.
329014.	H Hor 979/59.	329056.	H Hor 1048/59.
329015.	H Hor 981/59.	329057.	H Hor 1049/59.
329016.	H Hor 982/59.	329058.	H Hor 1050/58.
329017.	H Hor 985/59.	329059.	H Hor 1051/61.
329018.	H Hor 986/59.	329060.	H Hor 1052/61.
329019.	H Hor 990/59.	329061.	H Hor 1053/58.
329020.	H Hor 994/59.	329062.	H Hor 1054/61.
329021.	H Hor 995/59.	329063.	H Hor 1055/59.
329022.	H Hor 996/59.	329064.	H Hor 1056/59.
329023.	H Hor 997/59.	329065.	H Hor 1057/58.
329024.	H Hor 998/59.	329066.	H Hor 1058/59.
329025.	H Hor 999/59.	329067.	H Hor 1059/59.
329026.	H Hor 1000/59.	329068.	H Hor 1060/61.
329027.	H Hor 1001/59.	329069.	H Hor 1061/58.
329028.	H Hor 1002/59.	329070.	H Hor 1062/61.
329029.	H Hor 1003/59.	329071.	H Hor 1063/61.
329030.	H Hor 1005/59.	329072.	H Hor 1065/61.
329031.	H Hor 1007/61.	329073.	H Hor 1066/59.
329032.	H Hor 1009/59.	329074.	H Hor 1067/59.

327893 to 329134—Continued

329075. H Hor 1068/61.	329105. H Hor 1102/58.
329076. H Hor 1069/58.	329106. H Hor 1105/58.
329077. H Hor 1070/59.	329107. H Hor 1107/61.
329078. H Hor 1071/59.	329108. H Hor 1108/58.
329079. H Hor 1072/58.	329109. H Hor 1116/59.
329080. H Hor 1073/61.	329110. H Hor 1345/61.
329081. H Hor 1074/61.	329111. H Hor 1360/61.
329082. H Hor 1075/58.	329112. H Hor 1363/58.
329083. H Hor 1076-61.	329113. H Hor 2238-59.
329084. H Hor 1077/58.	329114. H Hor 2281/56.
329085. H Hor 1078/59.	329115. H Hor 2285/58.
329086. H Hor 1079/59.	329116. H Hor 2286/58.
329087. H Hor 1080/61.	329117. H Hor 2287/58.
329088. H Hor 1081/61.	329118. H Hor 2288/58.
329089. H Hor 1082/58.	329119. H Hor 2289/58.
329090. H Hor 1083/58.	329120. H Hor 2292/58.
329091. H Hor 1084/61.	329121. H Hor 2294/58.
329092. H Hor 1085/58.	329122. H Hor 2297/58.
329093. H Hor 1086/58.	329123. H Hor 2300/58.
329094. H Hor 1088/58.	329124. H Hor 2313/58.
329095. H Hor 1089/58.	329125. H Hor 2314/58.
329096. H Hor 1090/61.	329126. H Hor 2325/58.
329097. H Hor 1092/61.	329127. H Hor 2445/59.
329098. H Hor 1094/61.	329128. H Hor 2446/59.
329099. H Hor 1095/61.	329129. H Hor 2447/59.
329100. H Hor 1096/61.	329130. H Hor 2448/59.
329101. H Hor 1097/61.	329131. H Hor 2449/59.
329102. H Hor 1098/61.	329132. W Hor 305/61.
329103. H Hor 1100/58.	329133. W Hor 308/61.
329104. H Hor 1101/58.	329134. W Hor 1358/58.

329135 and 329136. ORYZA SATIVA L. Gramineae.**Rice.**

From the United Arab Republic. Ministry of Agriculture, Cairo, through Food and Agriculture Organization of the United Nations, Rome, Italy. Received Apr. 12, 1968.

329135. 'Arabi'.

329136. 'Nahda'.

329137 to 329149.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Received Apr. 12, 1968.

329137 and 329138. GOSSYPIUM BARBADENSE L. Malvaceae.**Sea-island cotton.**

329137. Pima S-1. (PV 304)B2B6genes.

329137 to 329149—Continued

329137 and 329138—Continued

329138. Sakel.

329139 to 329149. *GOSSYPIUM HIRSUTUM* L.

Upland cotton.

329139. African Albar -
SATU 66.

329140. Albar.

329145. Russian S1470.

329141. Albar B.S.

329146. Russian S3424.

329142. King Karjoski.

329147. Tadel 2 0-228 SP.

329143. Russian 1278.

329148. Tadel 3 0-229 SP.

329144. Russian 1306.

329149. Tadel 8 0-230 SP.

329150 to 329152.

From Ethiopia. Seeds collected by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Md. Received Apr. 15, 1968.

329150. *DOMBEYA* sp. Sterculiaceae.

Col. No. 9617. Sixteen km. north of Jimma, Kaffa Province, near the Agaro Road. Single tree, small.

329151. *DOMBEYA* sp.

Col. No. 9627. Forty km. southwest of Jimma, Kaca Province, in Boleta Forest, on Bonga Road. Single tree, small.

329152. *LAGENARIA ABYSSINICA* (Hook. f.) C. Jeffrey Cucurbitaceae.

Col. No. 9628. Forty km. southwest of Jimma, Kaffa Province, in Boleta Forest, on Bonga Road.

329153 to 329156. ILEX (hybrids). Aquifoliaceae.

From the United States. Selections made at the National Arboretum, United States Department of Agriculture, Washington, D. C. Received Apr. 15, 1968.

F₁ selections from *I. integra* × *I. pernyi*. Plants single-stemmed, conical, compact; leaves small, evergreen.

329153. N.A. 28261. 'Elegance'. Fruit red, colors early.

329154. N.A. 28260. 'Accent'. Excellent accent plant in landscaping. Good pollinator for 'Elegance'.

F₂ selections from *I. myrtifolia* × *I. opaca*. Plants slow growing, compact, fine textured; leaves spinose, ½ by 1¼ inches; fruit red.

329155. N.A. 28323. 'Tanager'.

329156. N.A. 28322. 'Oriole'. Fruit larger and more exposed than 'Tanager'.

329157 to 329171. LENS CULINARIS Medic. Leguminosae.**Lentil.**

From Iran. Seeds presented by Kenneth H. Evans, United States Department of Agriculture Regional Pulse Improvement Project, Tehran. Received April 15, 1968.

Large seeded.

329157. 33-071-10409. From Ardabil.

329158. 33-071-10410. From Khoy.

329159. 33-071-10411. From Moghan.

329160. 33-071-10413. From Ardabil.

329157 to 329171—Continued

329161. 33-071-10415. From Ardabil.
 329162. 33-071-10416. From Ardabil.
 329163. 33-071-10417. From Ardabil.
 329164. 33-071-10420. From Ardabil or Tabriz.
 329165. 33-071-10420a. From Ardabil or Tabriz.
 329166. 33-071-10423. From Miyaneh.
 329167. 33-071-10428. From Moghan.
 329168. 33-071-10436. From Ghazvin.
 329169. 33-071-10437. From Ghazvin.
 Small seeded. Root rot resistant.
 329170. 33-071-10885. From Esfahan.
 329171. 33-071-10903. From Esfahan.

329172. SYRINGA sp. Oleaceae.

From Korea. Scions presented by Father Torrey, Hwangji, Kangvondo.
 Received Apr. 16, 1968.

329173. FRAGARIA (hybrid). Rosaceae.

From Germany. Plants presented by Reihold Hummel, Erdbaerzuchter, Stuttgart-Weilimdorf. Received Apr. 17, 1968.

'Hummi-Trisca'.

329174. ANNONA SQUAMOSA L. Annonaceae. Sugar-apple.

From Brazil. Seeds presented by K. D. Doak, IRI Research Institute, Belem, through Agriculture Attache, American Embassy, Rio de Janeiro. Received Apr. 24, 1968.

329175. RHODODENDRON HIRSUTUM L. Ericaceae.

Garland rhododendron.

From Switzerland. Seeds presented by Jardin Botanique de Geneva, Geneva.
 Received Apr. 29, 1968.

329176 to 329182. ORYZA SATIVA L. Gramineae.

Rice.

From India. Seeds presented by A. Abraham, University of Kerala, Trivandrum, under Public Law Project A7-CR-178. Received Mar. 12, 1968.
 Numbered Apr. 29, 1968.

Planted after onset of monsoon.

329176. No. 0.6701. 'Ovuvadakkan'. Naduvathumuzhi Range.

Elevation 500 feet. June to October.

329177. No. 0.6702. 'Padannavella'. Kurulai Range.

Elevation 250 feet. June to September.

329178. No. 0.6703. 'Vadakkan'. Naduvathumuzhi Range.

Elevation 500 feet. June to October.

329179. No. 0.6704. 'Araekurruka'. Naduvathumuzhi Range.

Elevation 500 feet. June to October.

329180. No. 0.6705. Naduvathumuzhi Range.

Elevation 500 feet. June to October.

329181. No. 0.6706. 'Parambancheera'. Vazhadael Range.

Elevation 1,000 feet. June to July.

329176 to 329182—Continued

329182. No. 0.6707. 'Mundanperuvaka'. Vazhadeal Range.
Elevation 1,000 feet. Planted in May; 150 days to maturity.

329183 to 329195. HIBISCUS CANNABINUS L. Malvaceae. Kenaf.

From El Salvador. Seeds presented by C. L. Horn, United States Department of Agriculture-Agency for International Development Technical Assistance Agreement, Sal Salvador. Numbered Apr. 29, 1968.

329183. 'Cuba 2032'.	329190. 'G 5'.
329184. 'Java Red'.	329191. 'G 36-11'.
329185. 'Master Fiber'.	329192. 'G 37'.
329186. 'Puna'.	329193. 'G 45'.
329187. 'Sudan Late'.	329194. 'G 65'.
329188. 'Taituna Green'.	329195. 'URS 475'.
329189. 'Taiwan Green'.	

329196 to 329203.

From the Netherlands. Seeds presented by N. V. Koninklijke, Zaadettit en Zaadhandel, Sluis & Groot, Enkhuizen. Received Apr. 29, 1968.

329196 to 329202. BRASSICA OLERACEA var. CAPITATA L. Cruciferae. Cabbage.

329196. 'Continental'. White.
329197. 'Erfura Fine Bloodred'. Red.
329198. 'Hendersons Succession'. White.
329199. 'Norwegian'. Savoy.
329200. 'Urecht'. Red.
329201. 'Vaurigard'. White.
329202. 'Zenith'. Red.

329203. BRASSICA OLERACEA var. GEMMIFERA DC. Cruciferae. Brussels sprout.
'Catskill'.

329204 to 329207.

From the Union of Soviet Socialist Republics. Seeds presented by All-Union Institute of Plant Industry, Leningrad. Received Apr. 29, 1968.

329204. ANABASIS APHYLLA L. Chenopodiaceae.	
329205. HIBISCUS CANNABINUS L. Malvaceae.	Kenaf.
K-432. 021.	
329206 and 329207. NICOTIANA TABACUM L. Solanaceae.	Tobacco.
329206. 'Immune 580'.	
329207. 'Immune 580 MS'.	

329208 to 329219.

From Germany. Seeds purchased from Teicher-Saaten, Poggenhagen/Hann. uber Wunstorf. Received Apr. 29, 1968.

329208 to 329215. BEGONIA SEMPERFLORENS Link & Otto Begoniaceae.
F₁ hybrids.

329208. No. 2028. 'Gloriette'.

329208 to 329219—Continued**329208 to 329215—Continued**

329209. No. 2044. 'Rotes Wonder 68'.

329210. No. 2046. 'Ramona'.

329211. No. 2048. 'Ibis'.

329212. No. 2051. 'Turkenblut'.

329213. No. 2054. 'Patria'.

329214. No. 2056. 'Polly'.

329215. No. 2058. 'Steffi'.

329216 and 329217. CALCEOLARIA HERBEOHYBRIDA Voss Scrophulariaceae.

329216. No. 2321. 'Reingoldgelb'.

329217. No. 2324. 'Kupferrot'.

329218 and 329219. SENECIO (hybrid). Compositae.

329218. No. 4320. 'Weiss'.

329219. No. 4336. 'Kornblumenblau'.

329220. HORDEUM DISTICHON L. Gramineae.**Two-rowed barley.**

From Australia. Seeds presented by H. J. Sims, Department of Agriculture, State Research Farm, Victoria. Received Apr. 30, 1968.

'Weeah'.

329221 and 329222. SOLANUM TUBEROSUM L. Solanaceae.**Potato.**

From Uganda. Tubers presented by R. J. DeSouza, Kampala. Received May 1, 1968.

329221. B-53. Smooth skin.

329222. RW-2. Rough skin.

329223. ARACHIS HYPOGAEA L. Leguminosae.

From West Indies. Seeds presented by E.G.B. Gooding, Barbados Sugar Producers Association, Barbados. Received May 3, 1968.

329224 to 329227. ARACHIS HYPOGAEA L. Leguminosae.

From Brazil. Seeds collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Georgia. Received May 3, 1968.

Presented by Institute of Agronomy, Campinas, Sao Paulo.

329224. Col. No. 4. 'Roxo 40'. Valencia, testa red.

329225. Col. No. 5. 'Albo'. Testa white.

329226. Col. No. 6. 'Preta Marilia'. Valencia, testa purple.

329227. Col. No. 7. 'Tatu 53'.

329228 and 329229. ZEA MAYS L. Gramineae.**Corn.**

From Kenya. Seeds presented by Senior Maize Research Officer, Maize Research Station, Kitale. Received May 10, 1968.

329228. CBK I (1-8).

329229. Kat (V × VI).

- 329230 and 329231. TRITICUM AESTIVUM L. Gramineae. Common wheat.**
 From Australia. Seeds presented by University of Sydney, New South Wales. Received May 13, 1968.
329230. W 3123. 'Gamut'. Cross No. SU II.58.316. Gabo 3x5 Gabo × Mentana 2x2 Gabo × Kenya 117a (Gamenya W2550) 4x Gabo 54.
329231. W 3128. 'Timgalen'. Cross No. SU II.58.226. Aguilera × Kenya 2x Marroqui × Supremo 3x Gabo (IRN.57.145) 4x Winglen.
- 329232. TRITICUM AESTIVUM L. Gramineae. Common wheat.**
 From the Netherlands. Seeds presented by A. C. Zeven, Instituut Voor Plantenveredeling, Wageningen. Received May 13, 1968.
 'Tadepi'. French variety, bred by Benoist, from cross 'Hybride de Jonquois' × 'Benoist 40'. Winter type.
- 329233 to 329235. TRITICUM AESTIVUM L. Gramineae. Common wheat.**
 From Lebanon. Seeds presented by W. W. Worzella, American University of Beirut, Beirut, through C. O. Qualset, University of California, Davis, Calif. Received May 13, 1968.
 Tall straw; adapted to 14 to 18 inches rainfall. November to June growing period.
329233. 'Florence Aurore'.
329234. 'Mishragani'.
329235. 'Najah'.
- 329236 to 329239. ORYZA SATIVA L. Gramineae. Rice.**
 From Taiwan. Seeds presented by the Taiwan Agricultural Research Institute, Taipei. Received May 13, 1968.
329236. 'Dee-geo-woo-gen'. **329238.** 'Taichung Line No. 116'.
329237. 'Taichung Indica No. 2'. **329239.** 'Taichung No. 186'.
- 329240 and 329241. ORYZA SATIVA L. Gramineae. Rice.**
 From Japan. Seeds presented by Ministry of Agriculture and Forestry, Kasumigaseki, Chiyoda-ku, Tokyo. Numbered May 13, 1968.
329240. 'Kanto 77'.
329241. 'Nihonbare'.
- 329242 and 329243.**
 From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Numbered May 13, 1968.
329242. LOTUS CORNICULATUS L. Leguminosae. **Birdsfoot trefoil.**
 C.P.I. 27967.
329243. PHALARIS ARUNDINACEA L. Gramineae. **Reed canarygrass.**
 C.P.I. 27961. Argentina.
- 329244. TRITICUM AESTIVUM L. Gramineae. Common wheat.**
 From India. Seeds presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Numbered May 13, 1968.
 'Sharbati Sonora'.

329245. PHASEOLUS sp. Leguminosae.

From Mexico. Seeds collected by S. Miranda for H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered May 13, 1968.

Col. No. 22489. Km. 52 Mexico-Cuernavaca Highway. Elevation 7,800 feet. Lava thicket. Small, fine, climbing, perennial vine, enlarged roots, large flowers.

329246. CAPSICUM ANNUUM L. Solanaceae. Pimento.

From Argentina. Seeds presented by Instituto Nacional de Tecnologia Agropecuaria, Castelar. Numbered May 13, 1968.

'Magnif Ambato'. ('Magnif Ambato' × 'Yolo Wonder L'). F₅ line resistant to potato virus Y.

329247. PHASEOLUS VULGARIS L. Leguminosae. Common bean.

From the United States. Seeds increased at United States Plant Introduction Station, Glenn Dale, Md. Original seed collected by Oliver Norvell, Palo Alto, Calif. Numbered May 13, 1968.

Col. No. M 7016. Mascota, Jalisco, Mexico.

329248. KALANCHOE sp. Crassulaceae.

From Australia. Cuttings presented by Adelaide Botanic Garden, Adelaide. Numbered May 13, 1968.

'Brilliant Star'.

329249. EUCALYPTUS TORQUATA Luehm. Myrtaceae.

From Australia. Seeds presented by D. W. Shoobridge, Parks and Gardens, Department of Interior, Canberra, A.C.T. Numbered May 13, 1968.

329250 to 330302.

From Ethiopia. Seeds collected in September–November 1967 by B. M. Leese and L. V. Peters, Crops Research Division, United States Department of Agriculture, Beltsville, Md., and K.O. Rachie, Rockefeller Foundation, New York, N. Y. Numbered May 2, 1968.

329250 to 329252. SORGHUM ARUNDINACEUM (Willd.) Stapf Gramineae.

Kamerun grass.

329250. Col. No. R-136. 'Adar'. Tessenei, Societe Imprese Africane.

329251. Col. No. R-319. Nine km. south of Dejen, Blue Nile Gorge. Elevation 2,100 m.

329252. Col. No. 613-B. Forty-four km. north of Assella. Elevation 1,700 m. Plants 9 m. high.

329253 to 330270. SORGHUM BICOLOR (L.) Moench Gramineae.

Market in Addis Ababa, Shoa Province.

329253. Col. No. 1-B. This material reportedly harvested in Tigre Province. Seed white corneous, mixed red corneous, and brown shallu type.

329254. Col. No. 2-B. Large seeded durra type.

329255. Col. No 3-B. Reddish-brown seeded type, similar to hegari.

329256. Col. No. 4-B, Reportedly harvested near Asmara, Eritrea Province. Mixture of 3 seed colors types and 2 endosperm types.

329257. Col. No. 6-B. Uniform with thin pericarp; endosperm chalky. Preferred for grinding.

329258. Col. No. 7-B. Mixture of two distinct types. White seed has dark mesocarp.

329250 to 330302—Continued

329253 to 330270—Continued

329259. Col. No. 8-B. Local name Zengada. Seed larger than hegari, uniform; red.
329260. Col. No. 17-B. Local name Mashila. Ninety km. east of Nazareth. Elevation 1,100 m. Seeds yellow, awned.
329261. Col. No. 18-B. Local name Mashila. Elevation 1,100 m. Head spreading; seed reddish brown; glumes glabrescent.
329262. Col. No. 19-B. Elevation 1,100 m. Head spreading; seeds reddish brown, glabrescent.
329263. Col. No. 20-B. One hundred fifty km. east of Nazareth. Elevation 1,100 m. Awns deciduous; seeds red.
329264. Col. No. 21-B. Local name Mashila. One hundred seventy-two km. east of Nazareth. Elevation 1,400 m. Recurved; seeds pearly, reddish; glumes glabrescent.
329265. Col. No. 22-B. Local name Mashila. One hundred eighty-seven km. east of Nazareth. Elevation 1,550 m. Recurved; seeds pearly, reddish-yellow.
329266. Col. No. 23-B. Local name Mashila. Elevation 200 km. Seed very large; semicompact; head recurved.
329267. Col. No. 24-B. Two hundred km. east of Nazareth. Glumes glabrous, seeds cocoa color, semicompact, medium large.
329268. Col. No. 25-B. Two hundred km. east of Nazareth. Elevation 1,450 m. Head 38 cm. long; seed very long, lightly awned, slightly flattened, amber, pearly.
329269. Col. No. 26-B. On road to Alemaya, 210 km. east of Nazareth. Plant to 3 m. high; head cylindrical, semicompact; seed light brown, pearly; glume chocolate color.
329270. Col. No. 27-B. On road to Alemaya, 210 km. east of Nazareth. Elevation 1,600 m. Head large, obovate, compact, seed clustered, white, pearly, slightly flattened; glumes short, coriaceous.
329271. Col. No. 28-B. Two hundred eight km. east of Nazareth. Elevation 1,600 m. Heads long, cylindrical, semi-open; seed medium, light brown; glumes semicoriaceous, dark purple.
329272. Col. No. 29-B. Two hundred eight km. east of Nazareth. Elevation 1,600 m. Seeds reddish yellow, pearly, glumes short, awns obscure.
329273. Col. No. 32-B. Two hundred fifteen km. east of Nazareth. Elevation 1,600 m. Compact; head obovate, recurved; seed medium; glumes short.

Two km. north of Mieso, Harrar Province.

329274. Col. No. 34-B. Head large, obovate, open; seed white, pearly.
329275. Col. No. 35-B. Plant 2.4 m. high; head large, obovate, spreading; glume straw colored; seed white, pearly, medium.
329276. Col. No. 36-B. Head ovate, large, compact clustered; glume short; seed white, pearly.

Fifteen km. north of Mieso, Harrar Province. Elevation 1,700 m.

329277. Col. No. 38-B. Head obovate; glume short; seed medium, flattened, yellow, pearly.
329278. Col. No. 39-B. Head obovate, semicompact to semi-open; glume medium short, straw colored; seed white, pearly, awned.

329250 to 330302—Continued

329253 to 330270—Continued

329279. Col. No. 40-B. Head long cylindrical, semi-open to semicom-
pact; glume medium short; seed deep red, pearly, awned.

Ten km. northeast of Asbe Tafari, Harrar Province. Elevation 2,300 m.

329280. Col. No. 41-B. Hegari type; glume medium long, exceed one-
half of seed; seed reddish brown, awned.

329281. Col. No. 42-B. Head ovate, compact; glume medium long,
awned; seed reddish brown.

329282. Col. No. 43-B. Head lanceolate, compact; glume chocolate
color, membranous apex; seed deep red, awned.

Market in Dire Dawa, Harrar Province.

329283. Col. N. 46-B. Local name Mashila. Seed mixed white and
brown, pearly.

329284. Col. No. 47-B. Local name Mashila.

329285. Col. No. 48-B. Seed mixed white, yellow, red.

329286. Col. No. 49-B. Seed color variable.

329287. Col. No. 51-B. Seed white, pearly, uniform, good quality.

329288. Col. No. 52-B. Glume dark purple; seed dark brown, uniform.

329289. Col. No. 53-B. Seed mixed.

329290. Col. No. 54-B. Seed pearly type.

329291. Col. No. 56-B. Experimental plots, His Imperial Majesty Agri-
cultural College, Alemaya, Harrar Province. Appears to be an outcross
with *S. nigricans*. Seed shatters.

Market in Harrar, Harrar Province.

329292. Col. No. 58-B. Seed light tan, pearly, good quality.

329293. Col. No. 59-B. Seed similar to P.I. 329292, good quality.

329294. Col. No. 60-B. Seed brown and white.

329295. Col. No. 68-B. Seed mixed.

329296. Col. No. 69-B. Seed pearly, uniform.

329297. Col. No. 70-B. Seed mixed.

329298. Col. No. 71-B. Seed mixed.

Fadis Valley outside of Dire Dawa, Harrar Province. Elevation 1,600 m.

329299. Col. No. 74-B. Plant to 1.8 m. high; seed white with brown
undercoat; reportedly bird resistant.

329300. Col. No. 75-B. Seed brown.

329301. Col. No. 76-B. Similar to P.I. 329300.

Thirty km. south of Dire Dawa, Hurso, Harrar Province. Elevation
1,200 m. Durra type.

329302. Col. No. 81-B. Plant to 1.5 m. high; head ovate, compact;
awns obscure, small; glumes short; seed white, pearly, clustered.

329303. Col. No. 82-B. Head medium large, ovate; apex blunt, compact,
strongly clustered; glume short; awn obscure; seed medium, yellow,
pearly.

329304. Col. No. 83-B. Head large, obovate cylindrical, compact,
clustered; glume short; awn obscure; seed medium large, yellow, pearly.

329250 to 330302—Continued**329253 to 330270—Continued**

- 329305.** Col. No. 84-B. Head medium, ovate; apex blunt, compact, awns obscure; glumes one-third of seed; seed medium, clustered, amber, pearly, corneous; peduncle recurved.
- 329306.** Col. No. 91-B. Head medium, compact, lanceolate, clustered; glumes short; seed medium, yellow, pearly.
- 329307.** Col. No. 92-B. Head large, compact; apex blunt; glume short, red; seed white, pearly, recurved, clustered.
- 329308.** Col. No. 93-B. Head medium, ovate; apex blunt, compact, clustered, awned; seed medium, yellow, pearly.

Market in Error.

- 329309.** Col. No. 94-B. Seed medium large, range from red to pearly white.
- 329310.** Col. No. 95-B. Seed slightly mixed, medium large, yellow, pearly.

In valley near Moullou, Harrar Province. Elevation 1,400 m.

- 329311.** Col. No. 101-B. Head medium, ovate, lanceolate, compact; awns obscure; glume short; seed medium large, clustered, yellow..
- 329312.** Col. No. 102-B. Head medium, very compact; awns short; seed medium large, white, pearly; excellent quality.
- 329313.** Col. No. 103-B. Near Awash Station, Harrar Province. Head open, spreading; glumes variable color.
- 329314.** Col. No. 104-B. Dry riverbed between Mieso and Awash Station, Harrar Province. Composite sample; glumes variable.
- 329315.** Col. No. 118-B. Seventy-three km. west of Addis Ababa past Addis Alem, Shoa Province. Plants 1.5 to 3.0 m. high; head open; glume purple; seed red. Early.

Three km. west of Ambo, Shoa Province. Elevation 2,100 m.

- 329316.** Col. No. 119-B. Head semicompact; glumes chocolate; seed reddish, small.
- 329317.** Col. No. 120-B. Head open; apex blunt; glumes purple; awned; seed small.
- 329318.** Col. No. 121-B. Heads semi-open, cylindrical, 0.3 m. long; glumes chocolate; awned; seed medium.

Ten km. west of Ambo near Guder, Shoa Province. Elevation 2,100 m.

- 329319.** Col. No. 122-B. Head open; glumes purple, awned; seed medium large.
- 329320.** Col. No. 123-B. Head spreading; awned; seed light brown.
- 329321.** Col. No. 124-B. Head compact; glumes chocolate, awned; seed small.

Three km. west of Guder, Shoa Province. Elevation 2,400 m.

- 329322.** Col. No. 126-B. Head open; glumes pigmented, awned; seed medium large.
- 329323.** Col. No. 127-B. Head semicompact; glumes red purple, awned; seed small, brown.

Near Gimmi, east of Bako, Shoa Province. Elevation 2,100 m.

- 329324.** Col. No. 128-B. Head semicompact; glumes awned; seeds small.

329250 to 330302—Continued**329253 to 330270—Continued**

329325. Col. No. 129-B. Heads semicompact; glumes mahogany, awned; seeds small.
329326. Col. No. 130-B. Plants to 5.4 m. high with 18 nodes; heads open; glumes mahogany, awned; seed nearly covered by glumes.
329327. Col. No. 131-B. Plants to 5.4 m. high with 18 nodes; heads open; glumes straw colored, awned; seeds light tan.
329328. Col. No. 132-B. Similar to P.I. 329327 except glumes slightly pigmented.

Ethiopia-German Agricultural Experiment Station, Bako, Shoa Province. Elevation 1,600 m.

329329. Col. No. 133-B. Head spreading to semicompact; glumes mahogany, awned; seed medium, red.
329330. Col. No. 134-B. Head open; glumes black, one-half of seed, awned; seed medium large, brown.
329331. Col. No. 135-B. Head semicompact; glumes chocolate, one-half of seed, awned; seed medium large, brown.
329332. Col. No. 136-B. Head semispreading; glumes black, one-third of seed; seed red.
- North of Robi, Shoa Province. Elevation 1,400 m. Local name Mashila.
329333. Col. No. 140-B. Head medium long, compact, cylindrical to lanceolate; glumes short, purple; seed medium white, turtleback, semi-clustered.
329334. Col. No. 142-B. Head medium, open; glumes long, geniculate, shatters; seed broadly ovate.
329335. Col. No. 143-B. Head long, semicompact, cylindrical to lanceolate; glumes medium long; tan, transverse wrinkled seed medium, light reddish brown, semiglobose, clustered.
329336. Col. No. 144-B. Head medium, semicompact to semi-open; glumes short, tan to chocolate, transverse wrinkled seed medium, white; turtleback.
329337. Col. No. 145-B. Head short, semicompact; glumes long, awns medium.
329338. Col. No. 146-B. Head medium, open; glumes sienna to chocolate; awns obscure. Shatters.
329339. Col. No. 149-B. Glumes sienna, tomentose.
329340. Col. No. 150-B. Head medium, semicompact, cylindrical, to lanceolate; glumes short, purple; seed medium, white, turtleback. Durra type.
329341. Col. No. 151-B. Head medium, very compact, ovate, cylindrical; glumes short, tan, transverse wrinkled. Durra type.
329342. Col. No. 152-B. Head long, large, semicompact, cylindrical to lanceolate; glumes short, sienna-tan, transverse wrinkled; awns prominent; seed long, yellow.
329343. Col. No. 153-B. Head semicompact to semi-open, cylindrical to lanceolate; glumes long, purple; seed medium large, white. Durra type.
329344. Col. No. 154-B. Head medium small, semi-open, ovate to lanceolate; glumes medium, red to mahogany; awns prominent; seed medium, reddish brown. Durra type.
329345. Col. No. 155-B. Glumes tan, sienna, purple.

329250 to 330302—Continued**329253 to 330270—Continued**

- 329346.** Col. No. 156-B. Head medium small, semicompact, cylindrical; glumes medium small, straw color; awns medium long; seed medium large. Durra type.
- 329347.** Col. No. 157-B. Head medium, semicompact to semi-open, cylindrical; glumes medium small, straw color, transverse wrinkled; awns medium long; seed medium large, brown. Durra type.
- 329348.** Col. No. 158-B. Head small, compact, ovate, cylindrical; glumes short, straw color; seed medium, white. Durra type.
- 329349.** Col. No. 159-B. Head medium; glumes long, mahogany, tomentose; awns medium long; seed medium, reddish brown.
- 329350.** Col. No. 160-B. Glumes sienna.
- 329351.** Col. No. 162-B. Eleven km. north of Sambete. Elevation 1,500 m. Head large, open; glumes long; awns medium short; seed medium, reddish brown.
- South of Kembolcha, Shoa Province. Elevation 1,500 m. Local name Mashila.
- 329352.** Col. No. 163-B. Head medium large; glumes long, dark purple, persistent; awns medium long; seed medium.
- 329353.** Col. No. 164-B. Glumes straw color and purple.
- 329354.** Col. No. 165-B. Head medium, compact, obovate to lanceolate; glumes short, mahogany; seed medium, reddish brown, clustered.
- 329355.** Col. No. 166-B. Head very compact, ovate; glumes short, straw color; awns short; seed medium, yellow. Durra type.
- 329356.** Col. No. 167-B. Head medium, semicompact to semi-open, cylindrical to lanceolate; glumes medium, transverse wrinkled; awns medium long; seed medium, reddish brown.
- 329357.** Col. No. 168-B. Head medium, very compact, ovate; glumes short, dark purple; seed medium, reddish brown. Durra type.
- 329358.** Col. No. 170-B. Head medium, semicompact, cylindrical to lanceolate; glumes short, purple; seed medium large, white turtleback.
- 329359.** Col. No. 171-B. Head medium, compact, ovate; glumes short, purple; seed medium, red. Durra type.
- 329360.** Col. No. 172-B. Head medium; glumes short, purple; seed medium small, brownish red, turtleback, clustered.
- 329361.** Col. No. 173-B. Head medium, semicompact; glumes short, purple, seed medium large, white, clustered.
- 329362.** Col. No. 174-B. Head medium long; glumes medium short, purple; seed medium, reddish brown, turtleback; clustered.
- 329363.** Col. No. 175-B. Head large, ovate; glumes medium to long, dark purple; seed medium, reddish brown. Durra type.
- 329364.** Col. No. 177-B. Head large and long, semicompact to compact, cylindrical to lanceolate; glumes medium, mahogany, transverse wrinkled; seed medium large, yellowish red. Durra type.
- 329365.** Col. No. 178-B. Head very large, very compact; glumes short, purple; seed medium large, yellow, clustered. Durra type.
- 329366.** Col. No. 179-B. Head very large, very compact; glumes short, mahogany; seed medium, yellow, clustered. Durra type.
- 329367.** Col. No. 180-B. Head large, semicompact, ovate; glumes very long, dark purple, awns medium long; seed dark brown, medium small.

329250 to 330302—Continued

329253 to 330270—Continued

329368. Col. No. 181—B. Head large, semicompact; glumes short, sienna; seed medium large, white, turtleback, clustered. Durra type.
329369. Col. No. 182—B. Head large, open; glumes long, purple, persistent; awns long; seed medium, purple, brown. Shatters.
329370. Col. No. 183—B. Head medium, compact, ovate; glumes short, purple, seed medium large, brownish, semiclustered. Durra type.
329371. Col. No. 184—B. Glumes long, dark purple to mahogany, persistent; seed dark brown.
329372. Col. No. 185—B. Glumes long, sienna, persistent; awns long.
329373. Col. No. 186—B. Head large; glumes short, mahogany; seed medium small, brown, turtleback, clustered.
329374. Col. No. 188—B. Head long, open; glumes long, sienna, prominent pedicelled florets; awns obscure; seed medium small.
329375. Col. No. 189—B. Head medium small, semicompact to semi-open, ovate; glumes short, purple, tomentose; awns medium; seed medium, yellow, globose.
329376. Col. No. 190—B. Head medium small, semicompact to semi-open, cylindrical to lanceolate; glumes mahogany to purple; seed medium; reddish brown. Durra type.
329377. Col. No. 191—B. Head medium large, semicompact, ovate; glumes short, straw color; awns obscure; seed medium large, brown, semi globose, semiclustered. Durra type.
329378. Col. No. 192—B. Head large, semicompact, ovate; glumes short, mahogany, transverse wrinkled; seed large, reddish yellow, clustered.
329379. Col. No. 193—B. Glumes dark purple; awns long. Shatters.
329380. Col. No. 194—B. Head large, semicompact to semi-open, ovate to cylindrical; glumes medium, purple, transverse wrinkled; seed medium, reddish brown.
329381. Col. No. 195—B. Glumes tan; awns long.
329382. Col. No. 197—B. Head medium, semicompact to semi-open; glumes short, mahogany; awns medium small; seed small, reddish brown, semiclustered. Durra type.
329383. Col. No. 198—B. Head medium, semicompact, ovate; glumes short, mahogany; seed medium small, dark red clustered. Durra type.
329384. Col. No. 200—B. Head medium small, semicompact to semi-open, ovate to cylindrical; glumes short, mahogany; awns obscure; seed small, reddish brown. Durra type.
329385. Col. No. 202—B. Ten km. west of Kembolcha, Shoa Province. Local name Mashila. Head medium large, semicompact, lanceolate; glumes short, dark mahogany; seed medium small, reddish purple, globose; semiclustered. Durra type.
329386. Col. No. 203—B. Five km. east of Kembolcha, Shoa Province. Elevation 1,800 m. Local name Mashila. Head medium, semicompact to semi-open, cylindrical to lanceolate; glumes short, tan, transverse wrinkled; seed medium large, yellow.
329387. Col. No. 204—B. Five km. east of Kembolcha, Shoa Province. Elevation 1,800 m. Local name Mashila. Head medium large, semicompact to semi-open, cylindrical to lanceolate; glumes short, tan transverse wrinkled; awns medium; seed medium, white.

Near Bati, Wollo Province. Elevation 1,000 m. Local name Mashila.

329250 to 330302—Continued

329253 to 330270—Continued

329388. Col. 205-B. Head very large, long, semicompact, lanceolate; glumes short, sienna, transverse wrinkled; awns obscure; seed large.
329389. Col. No. 206-B. Head medium, compact, ovate, 12 cm. long; glumes short, straw color, transverse wrinkled; awns short; seed medium. Durra type.
329390. Col. No. 207-B. Head medium, semicompact, ovate to lanceolate; glumes short, tan, transverse wrinkled; seed medium large, clustered.
329391. Col. No. 208-B. Head medium large, very compact, ovate; glumes short, mahogany, transverse wrinkled; seed medium, yellowish red, clustered.
329392. Col. No. 209-B. Head large, semicompact to semi-open, ovate to lanceolate; glumes short, mahogany, tomentose; seed medium, clustered.
329393. Col. No. 211-B. Head very large, long, open to semicompact, ovate to lanceolate; glumes short, tan, transverse wrinkled; awns obscure; seed large, white.
329394. Col. No. 212-B. Head medium small, very compact, ovate; glumes short, reddish; seed medium, yellowish brown, clustered. Durra type.
329395. Col. No. 213-B. Head medium, compact, ovate to lanceolate; glumes short, tan, transverse wrinkled; seed medium large, clustered. Durra type.
329396. Col. No. 216-B. Head medium large, semi-open to semicompact, ovate; glumes short, mahogany, transverse wrinkled; seed medium, reddish brown. Durra type.
329397. Col. No. 217-B. Head large, semicompact to compact, ovate; glumes short, tan, transverse wrinkled; seed medium large, clustered. Durra type.
329398. Col. No. 219-B. Head medium, compact to very compact, ovate; glumes short, mahogany; seed medium, yellow, clustered. Durra type.
329399. Col. No. 222-B. Head medium large, very compact, ovate; glumes short, tan; seed medium large, yellow. Durra type.
329400. Col. No. 223-B. Head medium, semicompact, cylindrical to lanceolate; glumes short, mahogany, transverse wrinkled; seed small, red, clustered.

Near Dessie, Wollo Province. Local name Mashila.

329401. Col. No. 224-B. Elevation 2,400 m. Head small, semicompact, cylindrical to ovate; glumes medium long, mahogany; awns long; seed medium small, reddish brown. Durra type.
329402. Col. No. 225-B. Elevation 2,600 m. Head medium, semicompact; glumes short, mahogany; awns prominent; seed medium small, red, clustered. Durra type.
329403. Col. No. 226-B. Elevation 2,100 m. Head medium small, semicompact; glumes short, mahogany; awns medium; seed medium, black, globose. Durra type.
329404. Col. No. 227-B. Elevation 1,670 m. Plant 2.5 m. high. Head small, compact, ovate, 10 cm. long; glumes short, tan; awns medium; seed medium, yellow. Durra type.
329405. Col. No. 228-B. Elevation 2,200 m. Head medium, compact, ovate; glumes short, mahogany; awns obscure; seed medium, red, clustered. Durra type.

329250 to 330302—Continued

329253 to 330270—Continued

329406. Col. No. 230-B. Elevation 1,670 m. Head medium, very compact, ovate; glumes short, tan; seed medium, clustered. Durra type.
329407. Col. No. 231-B. Elevation 1,670 m. Head medium, semicompact; glumes short, tan; seed medium, globose. Durra type.
329408. Col. No. 232-B. Elevation 2,100 m. Head medium small, semicompact; glumes short, mahogany; awns obscure; seed medium small, reddish brown. Durra type.
329409. Col. No. 233-B. Head medium, semicompact, ovate to lanceolate; glumes medium short, mahogany; awns medium, seed medium large, red.
329410. Col. No. 234-B. Elevation 1,670 m. Head medium, semicompact, ovate to cylindrical; glumes medium short, mahogany; seed medium large, reddish purple, clustered. Durra type.
329411. Col. No. 235-B. Elevation 1,650 m. Head medium, semicompact; glumes short, tan; awns obscure; seed medium large, yellow, clustered. Durra type.
329412. Col. No. 236-B. Elevation 1,650 m. Head medium to medium large, semicompact, lanceolate; glumes short, tan; awns very obscure; seed medium large, white, globose. Durra type.
329413. Col. No. 237-B. Elevation 1,650 m. Head small, compact, lanceolate; glumes short, tan; awns very obscure; seed medium, white and red, clustered. Durra type.
329414. Col. No. 238-B. Elevation 1,650 m. Head medium, semicompact to compact, cylindrical to lanceolate; glumes short, mahogany and tan, transverse wrinkled; awns inconspicuous; seed medium small, red, clustered.
329415. Col. No. 239-B. Elevation 1,570 m. Head medium large, compact to very compact; glumes short, straw color; awns inconspicuous; seed medium; clustered.
329416. Col. No. 240-B. Elevation 1,570 m. Head medium, semicompact; glumes short, purple, transverse wrinkled; awns inconspicuous; seed medium, dark brown; clustered.
329417. Col. No. 241-B. Elevation 1,570 m. Head medium, large, semicompact; glumes short, purple and tan fringe, transverse wrinkled; awns inconspicuous; seed medium small, reddish brown, clustered.
- North of Wechale. Elevation 1,700 m. Local name Mashila.
329418. Col. No. 242-B. Head medium, semicompact, cylindrical to lanceolate; glumes medium short, tan, transverse wrinkled; awns medium; seed medium, white, clustered. Durra type.
329419. Col. No. 243-B. Head medium small, compact; glumes short, tan, transverse wrinkled; seed medium, reddish brown; clustered. Durra type.
329420. Col. No. 244-B. Head medium, compact to very compact, ovate; glumes short, tan, transverse wrinkled; seed medium, globose. Durra type.
329421. Col. No. 245-B. Head medium, semicompact; glumes medium short, mahogany, transverse wrinkled; seed medium large, gray brown, globose.
329422. Col. No. 246-B. Head medium, compact; glumes short, mahogany, seed medium, yellow, globose. Durra type.

329250 to 330302—Continued**329253 to 330270—Continued**

- 329423.** Col. No. 248-B. Head large, semicompact to compact; glumes short, chocolate and tan, transverse wrinkled; awns very obscure; seed large, reddish yellow. Durra type.
- 329424.** Col. No. 249-B. Head large, semi-open to open; glumes medium, tan and purple, transverse wrinkled; awns medium; seed medium, white, globose.
- 329425.** Col. No. 250-B. Head small, compact, ovate; glumes short, tan; seed medium large, white, globose. Durra type.
- 329426.** Col. No. 251-B. Head medium large, compact to semicompact, cylindrical to lanceolate; glumes short, tan; seed medium large, white, globose, clustered. Durra type.
- 329427.** Col. No. 252-B. Head very large, compact, ovate; glumes short, mahogany and tan, transverse wrinkled; awns very inconspicuous; seed medium large, yellow, clustered.
- 329428.** Col. No. 253-B. Head medium large, semicompact to compact, ovate to cylindrical; glumes short, mahogany and tan, transverse wrinkled; awns inconspicuous; seed medium large to large, gray brown.
- 329429.** Col. No. 255-B. Head medium long, semicompact, cylindrical to lanceolate; glumes short, chocolate and tan; seed medium large, red, globose, semiclustered.
- 329430.** Col. No. 257-B. Head medium, compact; glumes short, mahogany, transverse wrinkled; awns inconspicuous; seed medium small, dark red, globose, clustered.
- 329431.** Col. No. 258-B. Head medium large, semicompact, cylindrical to lanceolate; glumes medium short, purple and tan, transverse wrinkled; awns inconspicuous; seed medium large, white, ovate, semiclustered.

Market in Asmara, Eritrea Province. Local name Mashila.

- 329432.** Col. No. 260-B. Seed composite, red, yellow, amber.
- 329433.** Col. No. 261-B. Seed medium small, gray.
- 329434.** Col. No. 262-B. Seed medium small, white.
- 329435.** Col. No. 263-B. Seed medium small, white.
- 329436.** Col. No. 264-B. Seed medium.
- 329437.** Col. No. 265-B. Seed medium small, reddish brown.
- 329438.** Col. No. 266-B. Seed medium small, reddish.
- 329439.** Col. No. 267-B. Seed medium, light red, light yellow and white.
- 329440.** Col. No. 268-B. Seed medium large.
- 329441.** Col. No. 269-B. Seed medium small, white.

South of Asmara, Eritrea Province. Elevation 2,000 m.

- 329442.** Col. No. 297-B. Head semicompact, cylindrical, 20 cm. long; glumes one-half of seed, reddish purple, awned; seed medium small, pearly.
- 329443.** Col. No. 298-B. Head semiloose, cylindrical, 20 cm. long; glumes chocolate, two-thirds of seed, awns obscure; seed medium small, brown.
- 329444.** Col. No. 299-B. Head semicompact, cylindrical, 15 cm. long; glumes one-half of seed, straw colored, awned; seed white, pearly.
- 329445.** Col. No. 300-B. Head semicompact, cylindrical, 25 cm. long; glumes two-thirds of seed, tan, awned; seed medium small, light brown.

329250 to 330302—Continued

329253 to 330270—Continued

329446. Col. No. 301-B. Head open; 30 cm. long; glumes cover seed, reddish purple, awned; seed small brown.
329447. Col. No. 302-B. Head semicompact. 20 cm. long; glumes one-third of seed, straw to chocolate color; seed medium large, white, chalky to pearly, clustered.
329448. Col. No. 303-B. Head semi-compact, cylindrical, 12 cm. long; glumes one-third of seed, tan, chocolate base, awned; seed medium large brown.
329449. Col. No. 304-B. Head semicompact, 25 cm. long; glumes two-thirds of seed, straw color, awned; seed medium large, yellowish brown, pearly.
329450. Col. No. 305-B. Head semicompact, cylindrical, 12 cm. long; glumes tan, chocolate base, two-thirds of seed; seed medium small, dark reddish brown.
329451. Col. No. 306-B. Head loose, 25 cm. long; glumes one-half of seed, tan, awned; seed medium small, brown.
329452. Col. No. 307-B. Head semicompact, cylindrical, 25 cm. long; glumes one-third of seed, light tan; seed medium large, light brown, pearly.
329453. Col. No. 308-B. Head semicompact, cylindrical, 25 cm. long; glumes one-third of seed, light tan; seed medium large, chalky white.
329454. Col. No. 309-B. Head open, 25 cm. long; glumes one-half of seed, purplish tan, awned; seed small, yellowish brown.
329455. Col. No. 310-B. Head semi-open, 30 cm. long; glumes one-half of seed, tan, awned; seed medium small, tan.
329456. Col. No. 311-B. Head semicompact, cylindrical, 25 cm. long; glumes one-half of seed, straw color; seed medium small, white.
329457. Col. No. 312-B. Head strict, cylindrical, 20 cm. long; glumes two-thirds of seed, tan to light brown; seed medium small, tan.
329458. Col. No. 321-B. Head open, lax; glumes cover seed, red and tan; seed small, brown.
329459. Col. No. 324-B. Head open; glumes cover seed, red and tan; staminate florets prominent.
329460. Col. No. 325-B. Head semicompact, cylindrical, 35 cm. long; glumes one-half of seed, purplish, awned; seed medium large, brown.
329461. Col. No. 326-B. Head cylindrical, 35 cm. long; glumes two-thirds of seed, tan, chocolate base, awned; seed tan, pearly.
329462. Col. No. 327-B. Head open, lax; glumes cover seed, red to tan with transverse crease, awned; seed small, brown.
329463. Col. No. 329-B. Head open, spreading; glumes cover seed, red to tan, awned; seed small, brown.
329464. Col. No. 334-B. Head semicompact, cylindrical, 20 cm. long; glumes cover seed, purple, awned; seed small, brown.

Adua, 20 km. east of Adiabun, Tigre Province. Elevation 2,300 m.

329465. Col. No. 340-B. Plant 1.5 m. high; head semicompact; glumes two-thirds of seed, mahogany, awned; seed small, reddish brown.

329466. Col. No. 341-B. Plant 2.4 m. high; head open; glumes cover seed, awned, mahogany; seed red.

Market in Axum, Tigre Province.

329250 to 330302—Continued

329253 to 330270—Continued

329467. Col. No. 351-B. Seed small, white, pearly.
329468. Col. No. 352-B. Seed mixed.
South of Mojo, Shoa Province. Elevation 1,900 m.
329469. Col. No. 359-B. 'Mesinga'.
329470. Col. No. 360-B. Head open, lax, rachis retracted; glumes two-thirds of seed, mahogany, awned; seed medium small, brown.
329471. Col. No. 361-B. Head open, lax, rachis retracted; glumes two-thirds of seed, mahogany, awned; seed medium small, yellowish brown, pearly.
329472. Col. No. 362-B. Plant to 1.8 m. high; head open, lax, rachis extended; glumes two-thirds of seed, mahogany, awned; seed medium small, brown.
329473. Col. No. 365-B. Two km. south of Negele, Shoa Province. Plant 4.5 m. high, 12 nodes. Head open, lax, rachis retracted; glumes two-thirds of seed, mahogany, awned; seed reddish brown.
South of Awasa, Sidamo Province. Elevation 1,900 m.
329474. Col. No. 367-B. Plant to 3.0 m. high, 14 nodes, 'crookneck'. Head loose, rachis weak, extended; glumes two-thirds of seed, mahogany, awned.
329475. Col. No. 368-B. Plant to 2.4 m. high. Head loose, open, lax, rachis retracted; glumes one-half of seed, mahogany, awned; seed small.
Yirgalem, Sidamo Province.
329476. Col. No. 370-B. Plant 3.6 m. high. Head loose, open, to 3.0 m. long; glumes cover seed, mahogany, awned.
329477. Col. No. 371-B. Plant 3.6 m. high. Head open, spreading, rachis weak exert; glumes nearly cover seed, deep mahogany, awned.
Southwest of Wendo, Sidamo Province. Elevation 2,000 m.
329478. Col. No. 372-B. Plant 2.4 m. high. Head open, spreading; glumes cover seed, awned.
329479. Col. No. 373-B. Plant 3.6 m. high. Head open, lax, rachis weak; glumes cover seed, mahogany, awned.
West of Shashamane, Shoa Province. Elevation 1,900 m.
329480. Col. No. 394-B. Head open; glumes one-half of seed, brown, awned; seed small, reddish-dark brown.
329481. Col. No. 395-B. Head open, rachis weak, extended; glumes two-thirds of seed, mahogany, awned; seed small.
329482. Col. No. 396-B. Head open, lax, rachis weak; glumes one-half of seed, black, awned; seed small, brown, pearly.
329483. Col. No. 397-B. Head open, lax, rachis retracted; glumes one-half of seed, chocolate, awned; seed small, light brown.
329484. Col. No. 399-B. Plant 1.2 m. high, 10 nodes. Head open, rachis extended; glumes one-half of seed, purple, awned; seed small, brown.
329485. Col. No. 402-B. Head spreading; glumes one-half of seed, brown, awned; seed small, brown, pearly.
329486. Col. No. 403-B. Head spreading; glumes one-half of seed, mahogany; seed small, brown.

329250 to 330302—Continued

329253 to 330270—Continued

329487. Col. No. 404-B. Plant 1.5 m. high. Head spreading; glumes one-half of seed, tan to brown, awned; seed small, brown.
329488. Col. No. 407-B. Plant 3.6 m. high. Head open, lax, rachis weak, extended; glumes one-half of seed, mahogany, awned; seed small, chalky white.
329489. Col. No. 408-B. Plant 1.8 m. high. Head semicompact, cylindrical, 15 cm. long; glumes one-half of seed, mahogany, awned; seed small, brown.
329490. Col. No. 409-B. Plant 1.8 m. high. Head semicompact, cylindrical, 25 cm. long; glumes one-half of seed, dark brown, awned; seed small, reddish brown.
329491. Col. No. 410-B. Plant 2.4 m. high, 10 leaves. Head semicompact, cylindrical, 20 cm. long; glumes one-half of seed, mahogany, awned; seed small, brown, pearly.
329492. Col. No. 411-B. Head open, rachis extended; glumes one-half of seed, shiny black, awned; seed light brown.
329493. Col. No. 412-B. Plant 3.6 m. high. Head open, rachis weak; glume one-half of seed, straw color, awned; seed small, light brown.
329494. Col. No. 413-B. Plant 3.0 m. high. Head open, lax, rachis retracted; glume one-third of seed, mahogany, awned; seed small, chalky white.
329495. Col. No. 414-B. Plant 3.0 m. high. Head semicompact, cylindrical, 25 cm. long; glumes one-third of seed, mahogany; seed medium small, brown, pearly.
329496. Col. No. 415-B. Plant 3.0 m. high. Head open, cylindrical, 25 cm. long; glumes one-third of seed, mahogany; seed medium small, brown, pearly.
329497. Col. No. 416-B. Plant 3.6 m. high. Head open, rachis weak, extended; glumes one-half of seed, black, awned; seed small, white to brown buff.
329498. Col. No. 418-B. Plant 3.6 m. high. Head open, rachis weak, extended; glumes cover seed, yellow straw color, awned; seed small.
329499. Col. No. 419-B. Plant 3.3 m. high. No extended rachis on head; glumes cover seed, straw, sienna color base, awned; seed small.
329500. Col. No. 424-B. Plant 3.6 m. high. Head open, rachis retracted, weak; glumes cover seed, mahogany, awned; seed small.

North of Asella, Arussi Province. Elevation 2,200 m.

329501. Col. No. 603-B. Plant 1.2 m. high. Head open to semicompact, 25 cm. long; glumes two-thirds of seed, mahogany, awned, shiny; seeds small.
329502. Col. No. 604-B. Plant 1.2 m. high. Head open; glumes two-thirds of seed, bicolor, awned; seed small.
329503. Col. No. 605-B. Head open; glumes reddish mahogany, shiny, awned; seeds small.
329504. Col. No. 607-B. Head semicompact, cylindrical, 25 cm. long; glumes two-thirds of seed, mahogany, awned; seed small.
329505. Col. No. 609-B. Plant 3.0 m. high. Head open, 35 cm. long, rachis extended; glume two-thirds of seed, reddish brown; seed small.
329506. Col. No. 610-B. Plant 1.8 m. high. Head open, 30 cm. long; glumes one-third of seed, tan to black; seeds medium small.

329250 to 330302—Continued**329253 to 330270—Continued**

- 329507.** Col. No. 611-B. Head open, rachis semiretracted; glumes one-third of seed, chocolate; seed medium small.
- 329508.** Col. No. 612-B. Head semi-open, rachis partially retracted; glumes one-third of seed, mahogany; seed small.
- 329509.** Col. No. 614-B. Plant 2.4 m. high. Head open, 45 cm. long; glumes cover seed, tan, membranous, transversely creased, awned; seed medium small, brown.

Near Nazareth, Shoa Province. Elevation 1,700 m.

- 329510.** Col. No. 615-B. Plant 2.4 m. high. Head semicompact, cylindrical; glumes cover seed, tan, membranous, transversely creased, awned; seed medium small, brown.
- 329511.** Col. No. 616-B. Head cylindrical to lanceolate, 30 cm. long; glumes one-half of seed, light brown, awned; seed medium large, brown.
- 329512.** Col. No. 617-B. Head semicompact, cylindrical, 25 cm. long; glumes one-third of seed, chocolate, awned; seed small, shiny red.
- 329513.** Col. No. 618-B. Head open; glumes one-third of seed, chocolate, awned; seed small, red, pearly.
- 329514.** Col. No. 619-B. Plant crookneck. Head semicompact, broadly lanceolate, 20 cm. long; glumes one-half of seed, chocolate, awned; seed small, red, pearly.

East of Debre Zeit, Shoa Province. Elevation 1,900 m.

- 329515.** Col. No. 620-B. Head cylindrical; glumes tan, awned; seed medium small.
- 329516.** Col. No. 621-B. Head semicompact, cylindrical, 15 cm. long; glumes one-third of seed, chocolate, awned; seed small, shiny red.
- 329517.** Col. No. 622-B. Head open; glumes one-third of seed, chocolate, awned; seed small brown.

Near Butajira, Shoa Province. Elevation 1,900 to 2,200 m.

- 329518.** Col. No. 624-B. Plant 1.8 m. high. Head semicompact; glumes one-third of seed, chocolate, awned; seed red to shiny brown.
- 329519.** Col. No. 625-B. Plant 3.0 m. high. Head open; glumes two-thirds of seed, tan to mahogany; seed medium small, light brown.
- 329520.** Col. No. 627-B. Head semicompact, 30 cm. long.
- 329521.** Col. No. 628-B. Head open, lax, rachis retracted; glumes one-half of seed, shiny brown, awned; seed small, tan to white.
- 329522.** Col. No. 629-B. Plant 3.0 m. high. Head crookneck, opens with retracted rachis; glumes one-third of seed, dark mahogany, shiny, awned; seed small, brown, pearly.
- 329523.** Col. No. 630-B. Plant 1.8 m. high. Head semicompact to loose, 35 cm. long; glumes one-third of seed, dark mahogany; seed medium small, dark brown.
- 329524.** Col. No. 631-B. Head semicompact, 25 cm. long; glumes one-half of seed, dark brown, awned; seed small, shiny red.
- 329525.** Col. No. 632-B. Plant 0.9 m. high. Head open; glumes one-third of seed, mahogany, shiny, awned.
- 329526.** Col. No. 633-B. Head semicompact, 20 cm. long, rachis semiretracted; glumes one-third of seed, chocolate; seed small, reddish brown.

329250 to 330302—Continued

329253 to 330270—Continued

329527. Col. No. 634-B. Head open, bi-whorled, 25 cm. long; glumes tan with black base, awned; seed small, brown, pearly.
329528. Col. No. 635-B. Head open, rachis retracted; glumes one-third of seed, mahogany; seed medium, white.
329529. Col. No. 636-B. Head open, biwhorled; glume one-third of seed, chocolate, awned; seed shiny brown.
329530. Col. No. 637-B. Head semicompact, 20 cm. long; glumes one-third of seed, black, awned; seed small, shiny red.
329531. Col. No. 639-B. Head open, lax; glumes one-half of seed, black, awned; seed medium large, white tinged brown.
329532. Col. No. 640-B. Head open; glumes tan to black; seed medium large, white.
329533. Col. No. 641-B. Head open, rachis semiretracted, triwhorled; glumes one-half of seed, black with membranous tips, awned; seed small, brown.
329534. Col. No. 642-B. Head open; glumes three-fourths of seed, tan, awned; seed small, brown, pearly.
329535. Col. No. 643-B. Head open; glumes one-half of seed, tan, awned; seed small, brown, pearly.
329536. Col. No. 644-B. Head semicompact, broadly lanceolate, 25 cm. long; glumes one-third of seed, chocolate, awned; seed small, reddish brown, pearly.
329537. Col. No. 645-B. Head open; glumes mahogany, shiny; seed medium large, light brown.
329538. Col. No. 646-B. Plant 0.9 m. high. Head open; glumes two-thirds of seed, brown, awned; seed small.
329539. Col. No. 649-B. Head open; glumes two-thirds of seed, reddish brown, awned; seed small, red, pearly.
- Ghion, Shoa Province. Elevation 2,000 m.
329540. Col. No. 650-B. Plant 2.4 m. high, yellow midrib. Head open, lax, rachis retracted; glumes one-half of seed, straw color, awned; seed medium small, orange brown.
329541. Col. No. 651-B. Plant 3.6 m. high. Head open, rachis semi-retracted, two whorled; glumes one-third of seed, mahogany, shiny, awned; seed small, white.
329542. Col. No. 652-B. Plant 1.5 m. high, yellow midrib. Head open, lax, rachis retracted; glumes one-half of seed, straw color, purple tinged; seed small, tan.
329543. Col. No. 633-B. Plant 3.6 m. high. Head open, rachis extended; glumes one-half of seed, straw color, transversely creased, awned; seed small, chalky white.
329544. Col. No. 654-B. Plant 2.4 m. high. Head semi-open, cylindrical, semiretracted; glumes one-half of seed, brown, awned; seed small, brown.
- South of Welkite, Shoa Province. Elevation 1,700 m.
329545. Col. No. 655-B. Plant 3.6 m. high. Head open, 35 cm. long; glumes two-thirds of seed, straw color, awned; seed small, white.
329546. Col. No. 656-B. Plant 3.6 m. high. Head open, 35 cm. long; glumes two-thirds of seed, shiny mahogany, awned; seed small, white.

329250 to 330302—Continued

329253 to 330270—Continued

329547. Col. No. 657-B. Plant 3.6 m. high. Head open, 35 cm. long; glumes two-thirds of seed, straw color, awned; seed small, light brown.

329548. Col. No. 658-B. Plant 2.4 m. high. Leaves 5 cm. wide, white midrib. Associated with *Setaria* sp.

Limu Road near Jimma, Kasa Province. Elevation 1,900 m.

329549. Col. No. 659-B. Plant 3.6 m. high. Head open, crookneck, rachis retracted; glumes one-third of seed, black, awned; seed small, reddish brown.

329550. Col. No. 660-B. Plant 3.6 m. high. Head open, crookneck, rachis extended; glumes one-third of seed, black, awned; seed small, reddish brown.

329551. Col. No. 661-B. Plant 4.2 m. high. Head open, 30 cm. long, rachis extended; glumes one-half of seed, straw color, awned; seed small, white.

329552. Col. No. 662-B. Plant 4.2 m. high. Head open, lax, 20 cm. long; awned; glumes shiny black; seed small to medium small, chalky white.

329553. Col. No. 663-B. Plant 4.2 m. high. Head open, relaxed, rachis retracted; glumes two-thirds of seed, mahogany, awned; seed medium small, tan.

329554. Col. No. 667-B. Plant 4.2 m. high. Head open, rachis semi-retracted; glumes one-half of seed, mahogany, awned; seed medium small, tan.

329555. Col. No. 668-B. Plant 4.2 m. high. Head open, rachis extended, 30 cm. long; glumes one-half of seed, black, awned; seed small, chalky white.

329556. Col. No. 669-B. Seventy km. south of Jimma, Kaffa Province, Gojeb Valley, on road to Bonga. Elevation 1,600 m. Plant 4.2 m. high. Head open, lax, rachis retracted; glumes cover seed, bicolor awned; seed small, brown.

329557. Col. No. 670-B. Sixty km. south of Jimma, Kaffa Province, on road to Bonga. Elevation 2,100 m. Plant 4.2 m. high. Head open, rachis extended, lax, 40 cm. long; glumes one-half of seed, brown pubescent, transversely creased, awned; seed small, white. Good seed yield.

329558. Col. No. 672-B. Fifty km. south of Jimma, Kaffa Province, near Shebe, on road to Bonga. Plant 3 m. high. Head open, rachis extended, two whorled; glumes two-thirds of seed, mahogany, awned; seed small, reddish-tan.

Market in Jimma, Kaffa Province.

329559. Col. No. 676-B. Seed small, reddish brown.

329560. Col. No. 678-B. Seed light, reddish brown.

329561. Col. No. 679-B. Seed small, light reddish brown.

329562. Col. No. 680-B. Seed mixed, chalky white and light tan.

329563. Col. No. 681-B. Seed mixed, chalky white and pearly light tan.

329564. Col. No. 682-B. Seed mixed, reddish tan and pearly brown.

329565. Col. No. 683-B. Seed large, light tan, pearly.

329566. Col. No. 684-B. Seed mixed, chalky white and pearly tan.

329567. Col. No. 685-B. Seed pearly white and tan.

329250 to 330302—Continued

329253 to 330270—Continued

329568. Col. No. 688-B. Seed mixed, chalky white and pearly tan.

329569. Col. No. 693-B. Menisa, Asendabo, Kaffa Province. Seed small, reddish brown.

West of Agaro, Kaffa Province, seven km. off road to Bekele, Goga area near border of Illubabor and Kaffa.

329570. Col. No. 696-B. Head ovate, semicompact, 15 cm. long; glumes cover seed, brown, awned; seed uniform, brown. Stem very sweet.

329571. Col. No. 702-B. Head open, rachis extended, 30 cm. long; glumes one-half of seed, bicolor, awned; seed small, white.

329572. Col. No. 703-B. Head open, lax, rachis retracted; glumes one-third of seed, brown, awned; seed small, reddish brown, pearly.

329573. Col. No. 704-B. Head open, lax, rachis semiretracted, two whorled; glumes one-third of seed, shiny mahogany, transversely creased; seed small, brown.

329574. Col. No. 705-B. Head open, rachis extended, 25 cm. long; glumes one-third of seed, brown, awned; seed small, brown.

329575. Col. No. 706-B. Head open, rachis extended; glumes one-half of seed, awned; seed small, brown.

329576. Col. No. 707-B. Head open, rachis semiretracted, three whorled; glumes one-third of seed, mahogany, awned; seed small, reddish brown.

329577. Col. No. 708-B. Head open, lax, rachis retracted; glumes one-half of seed, mahogany, awned; seed small, reddish brown.

329578. Col. No. 709-B. Local name Seepo. Plant 3.6 m. high. Head open, 30 cm. long; glumes cover seed, black, shiny, awned; seed small, brown.

South of Asendabo, Kaffa Province, toward Gibe River. Elevation 1,600 m.

329579. Col. No. 716-B. Plant 3.0 m. high. Head open, lax, rachis retracted, crookneck; glumes two-thirds of seed, brown, awned; seed small, light brown.

329580. Col. No. 717-B. Plant 3.0 m. high. Head open, lax, rachis retracted, crookneck; glumes two-thirds of seed, light tan, awned; seed small, white.

329581. Col. No. 719-B. Local name Hanchro. Plant 3.0 m. high. Head open, rachis semiretracted, two whorled; glumes one-half of seed, mahogany, awned; seed small, white. Stalk sweet.

329582. Col. No. 720-B. Local name Seepo. Head lax, 25 cm. long; glumes cover seed, shiny black, awned; seed small, brown.

Shafa, Kaffa Province.

329583. Col. No. 722-B. Plant 3.0 m. high, tan. Head open, lax, rachis retracted; glumes one-third of seed, shiny mahogany, awned; seed medium small, brown.

329584. Col. No. 723-B. Plant 3.6 m. high. Head open, rachis semiretracted, panicle strick; glumes one-third of seed, mahogany, awned; seed medium small, purplish.

329585. Col. No. 724-B. Head open, lax, rachis retracted; glumes one-half of seed, straw color, awned; seed small, yellowish tan.

329586. Col. No. 726-B. Plant 3.0 m. high. Head open, lax, semiretracted; glumes two-thirds of seed, bicolor, awned; seed small, reddish brown.

329250 to 330302—Continued**329253 to 330270—Continued**

329587. Col. No. 727-B. Head open, lax, rachis retracted; glumes one-third of seed, mahogany, awned; seed small, reddish brown.

329588. Col. No. 728-B. Along Gibe River, Kaffa Province. Elevation 1,400 m. Plant endemic of area.

Wollo Province. Elevation 1,500 to 2,500 m.

329589. Col. No. 729-B. Local name Red Mashila. Seed large, reddish brown.

329590. Col. No. 730-B. Seed small, deep red.

329591. Col. No. 731-B. Local name Nedalit. Glumes straw color; seed large, broadly ovate, yellow, pearly.

329592. Col. No. 732-B. Local name Degalit. Seed medium small, brownish yellow.

329593. Col. No. 733-B. Local name Zengada. Seed small, shiny red.

329594. Col. No. 734-B. Local name Cemie. Seed chalky white. Kafir type.

329595. Col. No. 735-B. Local name Cedalit. Seed yellow, pearly.

329596. Col. No. 736-B. Local name Degale. Seed broadly ovate, yellow, pearly. Durra type.

329597. Col. No. 737-B. Local name Boda. Seed large, reddish brown. Durra type.

329598. Col. No. 738-B. Local name Mashila. Seed white, pearly.

329599. Col. No. 739-B. Local name Ahiya Mashilla. Glumes black; seed large, light brown.

329600. Col. No. 740-B. Local name Ayinabu Zengada. Seed small, shiny red.

329601. Col. No. 741-B. Local name Tengelei Mashilla. Glumes black; seed very large, yellow, pearly, high quality.

329602. Col. No. 742-B. Local name Nechila Mashilla. Seed medium small, white, pearly.

329603. Col. No. 743-B. Local name Nech Gorad Mashilla. Seed medium small, tan.

329604. Col. No. 744-B. Local name Zenda. Seed small, shiny red.

Market in Agere Hiwot, Shoa Province.

329605. Col. No. 745-B. Seed small, light reddish brown.

329606. Col. No. 746-B. Seed medium small, light brown, pearly.

329607. Col. No. 747-B. Seed medium small, brown, pearly.

329608. Col. No. 748-B. Seed small, brown, pearly.

329609. Col. No. 749-B. Seed small, white, pearly.

329610. Col. No. 750-B. Seed small, purplish brown.

329611. Col. No. 751-B. Seed small, brown.

329612. Col. No. 752-B. Seed reddish brown.

329613. Col. No. 753-B. Seed small, purplish brown.

Market in Solie, Shoa Province.

329614. Col. No. 754-B. Seed medium small, purplish brown.

329615. Col. No. 755-B. Seed medium small, purple, pearly.

329250 to 330302—Continued

329253 to 330270—Continued

329616. Col. No. 756-B. Seed small, light brown.

Market in Ejagi, Shoa Province.

329617. Col. No. 757-B. Seed mixed, chalky white and pearly yellow.

329618. Col. No. 758-B. Seed small, white, pearly and reddish tan.

329619. Col. No. 759-B. Seed white, pearly and brown.

329620. Col. No. 760-B. Seed brown.

329621. Col. No. 761-B. Seed small, pearly, brown.

329622. Col. No. 762-B. Seed small, red.

329623. Col. No. 763-B. Seed white, pearly and brown.

West of Bako, Shoa Province. Elevation 1,800 m.

329624. Col. No. 764-B. Plant 3.0 m. high. Head open, 30 cm. long; glumes cover seed, shiny black; seed small, brown.

329625. Col. No. 765-B. Plant 3.0 m. high. Head open, 30 cm. long; glumes pubescent; seed small, brown.

329626. Col. No. 766-B. Plant 1.8 m. high. Head open; glumes one-half of seed, mahogany, awned; seed small, chalky white.

329627. Col. No. 768-B. Seed dark brown.

West of Nekempt, Wollega Province. Elevation 1,250 m.

329628. Col. No. 771-B. Local name Seepo. Plant 3.0 m. high. Head open; glumes shiny black, awned; seed small, brown.

329629. Col. No. 772-B. Plant 3.0 m. high. Head semicompact, ovate, 15 cm. long; glumes cover seed, mahogany, awned; seed small, brown.

329630. Col. No. 773-B. Plant 4.2 m. high. Head open, rachis weak extended, 30 cm. long; glumes one-third of seed, mahogany; seed medium small, brown.

329631. Col. No. 774-B. Head open, rachis extended, 35 cm. long; glumes cover seed, mahogany, awned; seed medium small, dark red.

329632. Col. No. 775-B. Plant 4.2 m. high. Head open, rachis semi-extended; glumes one-third of seed, mahogany, awned; seed medium small, reddish light brown.

329633. Col. No. 776-B. Plant clumped with 13 stalks all with mature heads. Head open, 17 cm. long; glumes cover seed, black, awned; seed very small, brown.

329634. Col. No. 778-B. Plant 1.5 m. high. Head open; glumes one-half of seed, mahogany, black; seed medium small, brown.

329635. Col. No. 779-B. Plant 3.0 m. high. Head open rachis retracted; glumes less than one-third of seed, brown; seed large, broadly ovate, clustered. Very productive.

329636. Col. No. 780-B. Plant 3.0 m. high. Head open, rachis extended; glumes less than one-third of seed, brown, pubescent; seed medium large, white, chalky.

329637. Col. No. 781-B. Plant 3.0 high. Head open, rachis extended; glumes less than one-third of seed, brown, pubescent; seed medium large, tan.

329638. Col. No. 782-B. Head open, lax, rachis retracted; glumes black, pubescent; seed medium large, reddish brown.

329639. Col. No. 784-B. Head semicompact, ovate, 20 cm. long; glumes one-third of seed, mahogany; seed medium large, chalky white.

329250 to 330302—Continued

329253 to 330270—Continued

329640. Col. No. 785-B. Head open, rachis retracted; glumes less than one-third of seed, mahogany; seed large, white tinged with red.
329641. Col. No. 786-B. Local name Seepo. Plant 2.4 m. high. Head open; glumes cover seed, black; seed small.
329642. Col. No. 787-B. Plant 3.6 m. high. Head open, 40 cm. long; glumes one-half of seed, brown; seed medium small, brown, pearly.
329643. Col. No. 788-B. Head open; glumes one-half of seed, mahogany, awned; seed small, reddish brown.
329644. Col. No. 791-B. Diga Market, Wollega Province. Seed reddish yellow.
- Shambu, Wollega Province. Swamp area. Elevation 2,300 to 2,500 m.
329645. Col. No. 796-B. Plant 2.4 m. high. Head open, strick; glumes two-thirds of seed, tan to brown; seed small, brown.
329646. Col. No. 797-B. Plant 3.0 m. high. Head open, strick, 20 cm. long; glumes cover seed, reddish brown, awned; seed very small, reddish brown.
329647. Col. No. 798-B. Head open, crookneck; glumes two-thirds of seed, mahogany, awned; seed clustered.
329648. Col. No. 799-B. Head open, rachis weak; glumes mahogany, awned; seed small, pearly, reddish brown.
329649. Col. No. 800-B. Head semi-open, globose; glumes one-half of seed, mahogany; seed pearly, reddish brown, clustered.
329650. Col. No. 801-B. Plant 1.5 m. high. Head open; glumes straw color, awned; seed medium small, pearly, tan.
329651. Col. No. 803-B. Plant 3.0 m. high. Head semi-open, rachis retracted; glumes one-half of seed, mahogany, awned; seed medium small, reddish brown.
329652. Col. No. 804-B. Head open, strick, rachis retracted; glumes one-third of seed, mahogany, awned; seed medium small, light brown.
329653. Col. No. 805-B. Head open, lax, rachis retracted.
329654. Col. No. 806-B. Plant 1.5 m. high, immature. Head open, straw color, awned.
329655. Col. No. 808-B. Head open, lax; glumes mahogany, awned; seed medium small, reddish brown, pearly.
- North of Addis Alem on 100 km. at Wayu, Shoa Province.
329656. Col. No. 809-B. Local name Tukureta. Plant 3.0 m. high. Head open, rachis extended, 12 cm. long; glumes one-third of seed, reddish brown, awned; seed large.
329657. Col. No. 810-B. Local name Diramelie. Plant 3.0 m. high. Head open, rachis retracted, lax; glumes one-third of seed, white, awned.
329658. Col. No. 811-B. Local name Tekureta. Plant 2.4 m. high. Head open, rachis extended; glumes one-third of seed, straw color, awned.
329659. Col. No. 812-B. Local name Jomola. Plant 3.0 m. high. Head open, rachis extended, 15 cm. long; glumes one-third of seed, awned; seed yellowish white, clustered.
329660. Col. No. 813-B. Local name Dalecho. Plant 3.0 m. high. Head open, rachis extended, 15 cm. long; glumes one-third of seed, awned; seed yellow, lanceolate.

329250 to 330302—Continued

329253 to 330270—Continued

329661. Col. No. 814-B. Local name Ayicha. Plant thin, short, head lanceolate; glumes one-third of seed, awned; seed reddish brown.
329662. Col. No. 815-B. Local name Achirie. Plant 3.0 m. high. Head open, rachis retracted, lax; glumes one-half of seed, awned; seed small, yellowish red.
329663. Col. No. 816-B. Local name Achirie. Plant 3.0 m. high. Head open, rachis retracted, lax; glumes one-half of seed, awned; seed small, red.
329664. Col. No. 817-B. Local name Jomola. Plant short. Head open, 10 cm. long, rachis extended; glumes one-third of seed; seed small, yellowish red.
329665. Col. No. 818-B. Plant 3.0 m. high. Head open, rachis extended; glumes one-half of seed; seed red.
329666. Col. No. 819-B. Local name Belbela. Plant 3.6 m. high. Head open, rachis retracted; glumes one-half of seed, straw color, awned; seed small.
329667. Col. No. 820-B. Local name Dolgoma. Plant 3.6 m. high. Head open, rachis extended, 12 cm. long; glumes one-third of seed; seed clustered.
329668. Col. No. 821-B. Local name Gowansimbeku. Plant 2.4 m. high. Head open, rachis extended; glumes one-third of seed, awned; 12 cm. long; seed medium, mahogany, clustered. Stem weak.
329669. Col. No. 823-B. Local name Gowansinbeku. Plant 2.4 m. high. Head open, loose, semiretracted; glumes one-third of seed, awned, 12 cm. long; seed medium, mahogany, clustered. Stem weak.
329670. Col. No. 824-B. Local name Chetie. Plant 3.6 m. high, 8 leaves. Head cylindrical, 17 cm. long; glumes cover seed, awned, brown.
329671. Col. No. 825-B. Local name Chetie. Plant 3.6 m. high, 8 leaves. Head lanceolate, 17 cm. long; glumes cover seed, awned, brown.
329672. Col. No. 826-B. Local name Chetie. Plant 3.6 m. high, 8 leaves. Head cylindrical, 17 cm. long; glumes cover seed, awned; seed large, light red.
329673. Col. No. 827-B. Head open to compact, 12 cm. long; glumes one-third of seed; seed dark red; stem cone shaped.
329674. Col. No. 828-B. Local name Dolgoma. Plant 3.6 m. high. Head open to compact, lanceolate, 15 cm. long; glumes one-third of seed, awned, reddish brown; seed small, clustered.
329675. Col. No. 829-B. Local name Kolaguro. Plant 3.6 m. high. Head cylindrical, 15 cm. long; glumes one-half of seed, awned; seed yellowish red, clustered.
329676. Col. No. 830-B. Local name Kolaguro. Plant 3.6 m. high. Head cylindrical, 15 cm. long; glumes one-half of seed, awned; seed reddish, clustered.
329677. Col. No. 831-B. Local name Jawara. Plant 3.0 m. high. Head open, rachis extended, 15 cm. long; glumes one-half of seed, awned; seed reddish brown, clustered.
329678. Col. No. 832-B. Local name Achirie Selalie. Plant 2.4 m. high. Head compact to open, cylindrical, 12 cm. long; glumes one-half of seed, awned; seed light brown.
329679. Col. No. 833-B. Plant 2.4 m. high. Head open, rachis extended; glumes one-third of seed, dark red; seed small to medium.

329250 to 330302—Continued

329253 to 330270—Continued

329680. Col. No. 834-B. Local name Teff. Seed brown.
329681. Col. No. 835-B. Local name Teff. Seed white.
329682. Col. No. 836-B. Local name Tekureta. Plant 3.0 m. high. Head open, rachis extended; glumes one-third of seed, 15 cm. long, seed brown, clustered.
329683. Col. No. 837-B. Plant 3.0 m. high. Head cylindrical, 12 cm. long; glumes one-third of seed, awned; seed small, reddish brown, clustered.
329684. Col. No. 838-B. Plant short. Head compact to open, 10 cm. long; glumes one-half of seed, awned; seed yellowish white.
329685. Col. No. 839-B. Plant 3.0 m. high, 8 leaves. Head open, rachis extended; glumes cover seed, awned; seed dark red.

Market in Yabello, Sidamo Province. Elevation 2,100 m. Rainfall 65 cm. Local name Durra.

329686. Col. No. R-1. Seeds reddish brown, pearly.
329687. Col. No. R-2. Seeds reddish, pearly.
329688. Col. No. R-3. Seeds chalky white with brown subcoat (Feterita type).
329689. Col. No. R-7. Local name Mashila. Hosana, Sidamo Province. Elevation 2,286 m. Seeds medium, reddish brown.
- Bako, Gemu Gofa Province. Elevation 1,290 m. Local name Mashila.
329690. Col. No. R-9. Panicle spreading, umbellate, clustered. Seeds turtleback shaped, medium, white gray with subcoat. Glumes short, mahogany.
329691. Col. No. R-1. Seeds medium large, brownish red.
329692. Col. No. R-11. Panicle semi-umbellate, clustered. Seeds dark brownish red, pearly, medium, slightly flattened. Glumes dark reddish mahogany, coriaceous.
329693. Col. No. R-12. Seeds medium, slightly flattened, white with brown subcoat.
329694. Col. No. R-13. Panicle spreading, umbellate, clustered. Seeds medium, slightly flattened, purple black. Glumes short, dark purple, coriaceous. Bird resistant.
329695. Col. No. R-22. Local name Mashila. Maji, Kaffa Province. Elevation 2,130 m. Seeds red to brownish red, some reddish pearly. Heavy weevil damage.
329696. Col. No. R-30. Local name Shuri. Tepi, Illubabor Province. Elevation 1,230 m. Rain forest area, rainfall highest in Ethiopia. Panicle umbellate with partial clustering. Glumes short, less than $\frac{1}{3}$ of seed, chocolate, coriaceous. Seeds medium, dark reddish brown.
329697. Col. No. R-31. Local name Tinkish. Tepi, Illubabor Province. Elevation 1,230 m. Rain forest area, rainfall highest in Ethiopia. Head short, cylindrical, medium small, semicompact. Glumes short, dark brown. Sweet stem.
329698. Col. No. R-42. Shewa Gimira, Kaffa Province. Elevation 1,230 m. High rainfall evenly distributed 18-26 cm. rainfall.
329699. Col. No. R-45. Gilo River, near the Sudan border. Elevation 540 m. Seeds mixed from amber pearly to dark brown. Glumes light brown to chocolate brown.

329250 to 330302—Continued

329253 to 330270—Continued

329700. Col. No. R-48. Gambela River, Illubabor Province. Elevation 540 m. Seeds mixed ranging from amber pearly to light red and light brown.

329701. Col. No. R-49. Local name Tinkish (Sweet). Gambela River, Illubabor Province. Elevation 540 m. Head large and spreading. Glumes large, covering $\frac{2}{3}$ of seed; staminate florets exerted. Seeds medium large and flattened, white and chalky.

Market in Debre Berhan, Shoa Province.

329702. Col. No. R-59. Seeds medium, red.

329703. Col. No. R-60. Seeds mixed, white, brown, and red.

329704. Col. No. R-62. Seeds mixed, white and brown.

329705. Col. No. R-68. Seeds mixed, red and brown with dark purple glumes.

329706. Col. No. R-69. Seeds brown red, uniform sample.

329707. Col. No. R-71. Seeds yellow mixed with white and brown.

329708. Col. No. R-72. Seeds small, reddish brown. Glumes black.

329709. Col. No. R-73. Seeds medium, yellow mixed with brown and white.

North of Debre Sina, Shoa Province.

329710. Col. No. R-76. Elevation 2,100 m. Head semiloose, 36 cm. long. Glumes brown, $\frac{1}{2}$ of seed, awned. Seeds medium small, brown.

329711. Col. No. R-77. Elevation 2,100 m. Head broadly ovate, 15 cm. long. Glumes $\frac{1}{3}$ of seed, pubescent, awned. Seeds medium, brown. Rough peduncle.

329712. Col. No. R-78. Heads cylindrical, 10 cm. long, seeds clustered. Glumes less than $\frac{1}{3}$ of seed, obscure awns. Seed twinned, pearly red.

329713. Col. No. R-79. Elevation 2,200 m. Heads open, lax, 28 cm. long. Glumes $\frac{1}{3}$ of seed, prominent awned. Seeds pearly deep red, small.

329714. Col. No. R-80. Elevation 2,200 m. Heads open, lax 23 cm. long. Glumes $\frac{1}{3}$ of seed, awned. Seeds brown to reddish brown.

329715. Col. No. R-81. Elevation 2,200 m. Heads open lax, 28 cm. long. Glumes nearly as long as seed, mahogany colored, awned. Seeds reddish brown.

329716. Col. No. R-82. Elevation 2,350 m. Heads open, 20 cm. long. Glumes mahogany colored, awned and $\frac{1}{2}$ of seed. Seeds reddish brown.

329717. Col. No. R-83. Elevation 2,200 m. Heads cylindrical, compact. Glumes $\frac{1}{2}$ of seed, purple, awned. Seed medium small, brown.

329718. Col. No. R-84. Elevation 2,200 m. Heads cylindrical, compact. Glumes $\frac{1}{2}$ of seed, purple, awned. Seed medium small, deep reddish brown.

329719. Col. No. R-85. Elevation 1,800 m. Heads cylindrical, semi-compact, 30 cm. long. Glumes $\frac{1}{2}$ of seed, straw colored, awns obscure. Seeds chalky white.

329720. Col. No. R-86. Elevation 1,700 m. Heads loose, lax, 46 cm. long. Glumes purplish colored, nearly the length of seed, awned. Seeds reddish brown.

329250 to 330302—Continued

329253 to 330270—Continued

329721. Col. No. R-87. Elevation 1,600 m. Heads broadly ovate-lanceolate, seed clustered. Glumes $\frac{1}{3}$ of seed, straw color, awns obscure. Seed medium small, pearly yellow. Endosperm of high quality.
329722. Col. No. R-88. Elevation 1,600 m. Plants 18 m. tall. Heads open, lax, 30 cm. long. Glumes nearly cover seed, awned. Seed brown light brown. This collection represents the variation in the field.
329723. Col. No. R-89. Elevation 1,600 m. Head semicompact, ovate, 20 cm. long. Glumes $\frac{1}{2}$ of seed, black. Seed medium large, chalky white.
329724. Col. No. R-90. Elevation 1,600 m. Heads cylindrical, semicompact, seeds clustered, 30 cm. long. Glumes straw colored, awned. Seeds medium small, light brown.
329725. Col. No. R-91. Elevation 1,600 m. Heads cylindrical, semicompact, seeds clustered, 30 cm. long. Glumes straw colored, awned. Seed medium, reddish brown.
329726. Col. No. R-92. Elevation 1,700 m. Heads broadly ovate, semicompact, seeds clustered, rachis retracted, pedicels staggered on rachis. Glumes $\frac{1}{4}$ of seed, light brown. Seed medium, orange colored. Outstanding head type.
329727. Col. No. R-93. Elevation 1,600 m. Head broadly ovate, semicompact, seed clustered. Glumes $\frac{1}{2}$ of seed, tan straw. Seed medium large, pearly lemon. Outstanding seed and head type.
329728. Col. No. R-94. Local name Wotatae. Elevation 1,600 m. Heads cylindrical to lanceolate, semiloose, 36 cm. long. Glumes straw color, $\frac{1}{2}$ of seed. Seeds medium large, chalky white.
329729. Col. No. R-95. Elevation 1,600 m. Heads loose, semi-ovate. Glumes $\frac{1}{2}$ of seed, awns obscure, pinkish purple. Seeds medium large, light tan.
329730. Col. No. R-96. Heads broadly ovate, compact, seeds clustered. Glumes less than $\frac{1}{3}$ of seed, straw colored, awns obscure. Seeds medium small, pearly lemon. A very high quality seed.
329731. Col. No. R-97. Local name Philush (Filush). Heads cylindrical lanceolate, semicompact, 20 cm. long. Glumes less than $\frac{1}{3}$ of seed, straw colored, awned. Seeds large, pearly lemon. High quality.
329732. Col. No. R-98. Elevation 1,600 m. Plant tan. Heads broadly ovate, very compact, seeds clustered. Glumes $\frac{1}{3}$ or less of seeds, straw colored, awns obscure. Seeds medium small, pearly yellow. Good quality.
329733. Col. No. R-99. Elevation 1,600 m. Heads ovate, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seed, brown tan, awned. Seeds medium large, pearly orange.

Societe Imprese Africane, Baratoolo Farms, Tessenei, Eritrea Province. Local name Durra unless otherwise indicated.

329734. Col. No. R-102. Local name Mugud.
329735. Col. No. R-104. Local name Mashila.
329736. Col. No. R-105. Local name Mashila.
329737. Col. No. R-106.
329738. Col. No. R-109.
329739. Col. No. R-111.

329250 to 330302—Continued

329253 to 330270—Continued

329740. Col. No. R-112. Local name Adar.
329741. Col. No. R-113.
329742. Col. No. R-115.
329743. Col. No. R-116. Local name Mugud.
329744. Col. No. R-117. Local name Adar.
329745. Col. No. R-118.
329746. Col. No. R-119.
329747. Col. No. R-120.
329748. Col. No. R-121.
329749. Col. No. R-122.
329750. Col. No. R-123.
329751. Col. No. R-126.
329752. Col. No. R-127.
329753. Col. No. R-128.
329754. Col. No. R-129.
329755. Col. No. R-130. Local name Adar.
329756. Col. No. R-131.
329757. Col. No. R-134.
329758. Col. No. R-137.
329759. Col. No. R-138.
329760. Col. No. R-139.
329761. Col. No. R-140.
329762. Col. No. R-146.
329763. Col. No. R-147.
329764. Col. No. R-148.
329765. Col. No. R-149.
329766. Col. No. R-150. Local name Safra.
329767. Col. No. R-151. Seeds medium large, pearly white.
329768. Col. No. R-152.
329769. Col. No. R-153.
329770. Col. No. R-154. Local name Mugud.
329771. Col. No. R-155. Local name Adar.
329772. Col. No. R-156. Local name Mugud.
329773. Col. No. R-157.
329774. Col. No. R-158.
329775. Col. No. R-159.
329776. Col. No. R-160.
329777. Col. No. R-161. Local name Adar. Dark purple glumes, tomentose. Shatters.
329778. Col. No. R-162. Local name Adar.
329779. Col. No. R-163.

329250 to 330302—Continued**329253 to 330270—Continued**

329780. Col. No. R-164.

Al Khadra, Hormara Region. Local name Durra unless otherwise indicated.

329781. Col. No. R-166. Elevation 1,000 m. Local name Baza. Bitter.

329782. Col. No. R-167.

329783. Col. No. R-168. Local name Mugud.

329784. Col. No. R-169. Local name Adar. Shatters readily.

329785. Col. No. R-170. Elevation 1,000 m.

329786. Col. No. R-171.

329787. Col. No. R-172.

329788. Col. No. R-173. Local name Tajarib.

329789. Col. No. R-174. Local name Wad'Akr.

329790. Col. No. R-175.

329791. Col. No. R-176.

329792. Col. No. R-177. Local name Wad'Akr.

329793. Col. No. R-178.

329794. Col. No. R-181.

329795. Col. No. R-182.

329796. Col. No. R-183.

329797. Col. No. R-184.

329798. Col. No. R-185.

329799. Col. No. R-186. Local name Zerazera.

329800. Col. No. R-188.

329801. Col. No. R-190. Hegari-like.

329802. Col. No. R-191. Local name Wad-Akr.

329803. Col. No. R-192.

329804. Col. No. R-193.

329805. Col. No. R-194. Local name Zerazera.

329806. Col. No. R-196.

329807. Col. No. R-198. Local name Wad Faraj.

329808. Col. No. R-201. Local name Tajarib.

329809. Col. No. R-202.

329810. Col. No. R-203. Local name Tajarib.

329811. Col. No. R-204. Local name Wakaka.

329812. Col. No. R-205. Local name Tajarib.

South of Axum, Tigre Province.

329813. Col. No. R-213. Elevation 2,100 m. Heads cylindrical, semi-compact, 30 cm. long. Glumes straw colored with a sienna base, transversely creased, awns short. Seeds medium large, light tan.

329814. Col. No. R-214. Elevation 2,100 m. Heads cylindrical, semi-compact, 25 cm. long. Glumes $\frac{3}{4}$ of seeds, tan, long awned. Seeds medium large, tan.

329250 to 330302—Continued

329253 to 330270—Continued

329815. Col. No. R-215. Elevation 2,100 m. Heads cylindrical, semi-compact. Glumes $\frac{2}{3}$ of seed, straw color, awned. Seeds medium small, tan.
329816. Col. No. R-216. Elevation 2,100 m. Heads cylindrical, semi-compact. Glumes $\frac{2}{3}$ of seed, reddish brown, awned. Seeds medium small, tan.
329817. Col. No. R-218. Elevation 2,100 m. Heads cylindrical, semi-loose, 33 cm. long. Glumes $\frac{2}{3}$ of seeds, straw color, awned. Seeds medium small, pearly white.
329818. Col. No. R-219. Heads cylindrical, semicompact, 18 cm. long. Glumes $\frac{1}{2}$ of seeds, awns short. Seeds small, brownish red. High elevation type.
329819. Col. No. R-220. Heads open, 36 cm. long. Glumes $\frac{1}{2}$ of seed, brown, awned. Seed medium small, tan.
329820. Col. No. R-224. Heads open, 36 cm. long. Glumes cover the seed, mahogany, awned. Seeds small, brownish red. High elevation type.
329821. Col. No. R-228. Elevation 1,200 m. Heads cylindrical, semi-compact, 25 cm. long. Glumes straw color, $\frac{1}{3}$ of seeds. Seeds pearly white.
329822. Col. No. R-229. Elevation 1,200 m. Heads cylindrical, semi-compact. Glumes $\frac{1}{2}$ of seed, transversely creased, awned. Seeds medium large, pearly yellow.
329823. Col. No. R-230. Heads loose, 41 cm. long. Glumes $\frac{2}{3}$ of seeds, sienna, transversely creased, awned. Seeds pearly tan, medium large.
329824. Col. No. R-233. Elevation 1,400 m. Heads cylindrical, semi-compact, 20 cm. long. Glumes black, $\frac{1}{2}$ of seeds. Seeds medium small, chalky white.
329825. Col. No. R-234. Elevation 1,400 m. Heads cylindrical, semi-compact, 20 cm. long. Glumes $\frac{2}{3}$ of seeds, light sienna, awns short. Seeds light tan, medium small.
329826. Col. No. R-235. Heads cylindrical, semicompact. Glumes reddish brown, cover the seed. Seeds small.
329827. Col. No. R-239. Elevation 1,300 m. Heads open, 36 cm. long. Glumes $\frac{1}{2}$ of seeds, chocolate color. Seeds small, brown. Threshability good.
329828. Col. No. R-241. Elevation 1,420 m. Plants 4.2 m. tall, 14 nodes. Heads loose with weak extended rachis. Glumes $\frac{3}{4}$ of seeds, straw colored, awned. Seeds medium small, pearly tan.
329829. Col. No. R-242. Elevation 1,420 m. Heads cylindrical, semi-compact, 36 cm. long. Glumes $\frac{1}{2}$ of seeds, straw color. Seeds pearly brown, small.
329830. Col. No. R-243. Elevation 1,420 m. Heads cylindrical, semi-compact, 30 cm. long, seeds clustered. Glumes $\frac{1}{2}$ of seeds, straw colored, awned. Seeds medium large, pearly lemon white.
329831. Col. No. R-245. Elevation 1,400 m. Heads cylindrical, semi-compact, 25 cm. long. Glumes $\frac{1}{2}$ of seeds, sienna, shiny. Seeds medium large, white with a brown subcoat.
329832. Col. No. R-246. Heads cylindrical, semicompact, seeds clustered, 25 cm. long. Glumes $\frac{1}{2}$ of seeds, black. Seeds medium small, purplish tinged.

329250 to 330302—Continued

329253 to 330270—Continued

329833. Col. No. R-247. Heads open, 30 cm. long. Glumes extending beyond the seed, straw color. Seeds small, pearly lemon white.
329834. Col. No. R-249. Elevation 1,500 m. Heads cylindrical, semi-compact, 30 cm. long. Glumes $\frac{1}{2}$ of seeds, chocolate. Seeds chalky white.
329835. Col. No. R-250. Elevation 1,500 m. Heads open, 30 cm. long. Glumes cover the seed, straw color. Seeds small.
329836. Col. No. R-251. Elevation 1,500 m. Heads semi-open, seeds clustered, 20 cm. long. Glumes $\frac{1}{3}$ of seed, shiny chocolate. Seeds small, tan to pinkish tan.
329837. Col. No. R-252. Elevation 1,500 m. Heads cylindrical, semi-compact, seeds clustered, 25 cm. long. Glumes $\frac{1}{3}$ – $\frac{1}{2}$ of seeds, black. Seeds small, chalky white.
329838. Col. No. R-253. Elevation 1,500 m. Heads cylindrical, semi-compact, 20 cm. long. Glumes $\frac{1}{3}$ of seeds, black. Seeds tan with a pinkish tinge, resistant insect damage.
329839. Col. No. R-261. Local name Mashila. From the Chuahe market. Harvested from the Chelga areas SW. of Gondar, Begemder Province. Seeds pearly white.
329840. Col. No. R-265. Ten km. north of Gorgora, Begemder Province. Plants 1 m. tall, heads open. Glumes mahogany. Seeds small. *S. glabrescens* type.
329841. Col. No. R-269. Thirteen km. north of Gorgora, Begemder Province. Elevation 1,860 m. Heads open. Glumes $\frac{1}{2}$ of seed, tan purple, awned. Seeds brown to dark brown.
- South of Bahar Dar, Gojjam Province.
329842. Col. No. R-289. Elevation 1,650 m. Heads open. Glumes cover the seed, sienna, shiny, awned. Seeds small, red.
329843. Col. No. R-290. Elevation 1,650 m. Heads ovate, broad apex, semicompact. Glumes $\frac{1}{2}$ of seed, straw colored, awned. Seed small, brown. *S. subglabrescens* type.
329844. Col. No. R-291. Head broadly ovate, compact. Glumes $\frac{1}{2}$ of seeds, straw color, awns short. Seed small, brown.
329845. Col. No. R-302. Elevation 1,950 m. Heads open. Glumes cover the seed, sienna, shiny, awned. Seed small. *S. sudanense* type.
329846. Col. No. R-304. Elevation 2,100 m. Heads broadly ovate, compact. Glumes $\frac{1}{3}$ of seed, straw color, awns small. Seeds small, brown. *S. subglabrescens* var. *oviforme* type.
329847. Col. No. R-305. Elevation 2,100 m. Heads open, broadly ovate, compact. Glumes $\frac{1}{3}$ of seed, straw color, awns small. Seeds small, brown. *S. subglabrescens* var. *oviforme* type.
- Dejen, north side of the Blue Nile Gorge. Gojjam Province.
329848. Col. No. R-308. Elevation 2,550 m. Heads cylindrical, semi-compact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, straw colored, awned. Seeds small, light to dark brown.
329849. Col. No. R-309. Elevation 2,550 m. Heads cylindrical, semi-compact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, straw colored, awned. Seeds small, reddish brown. Similar to the high elevation closed head type.

329250 to 330302—Continued

329253 to 330270—Continued

329850. Col. No. R-310. Elevation 2,580 m. Heads cylindrical, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, straw colored, awned. Seeds medium small, light dark brown.
329851. Col. No. R-316. Elevation 2,300 m. Heads cylindrical, 20 cm. long, semicompact, seeds clustered. Glumes reddish brown, $\frac{1}{2}$ of seed, awned. Seeds small, brown.
329852. Col. No. R-317. Elevation 2,300 m. Heads lanceolate to ovate, semicompact, 25 cm. long. Glumes $\frac{1}{3}$ of seeds, mahogany, awned. Seeds small, shiny red.
329853. Col. No. 2,100 m. Heads cylindrical, semicompact, 20 cm. long. Glumes straw colored, pubescent, $\frac{1}{3}$ of seed. Seeds medium large, chalky white.
329854. Col. No. R-320. Heads cylindrical to lanceolate. Glumes $\frac{1}{3}$ of seed, black. Seeds chalky white with a brown subcoat.
329855. Col. No. R-321. Heads cylindrical, semicompact, seeds clustered. Glumes $\frac{1}{3}$ of seed, transversely creased, straw colored with sienna base, awns short. Seeds medium large, orange yellow, pearly. Appears to be high quality seed.
329856. Col. No. R-322. Heads cylindrical, semi-open, 30 cm. long. Glumes $\frac{1}{2}$ of seed, brown, awns short. Seeds light brown.
329857. Col. No. R-324. Elevation 1,850 m. Head cylindrical to broadly lanceolate, semicompact, seeds clustered, 36 cm. long. Glumes less than $\frac{1}{3}$ of seed, straw colored, awns short. Seeds pearly lemon white. High quality seed.
329858. Col. No. R-326. Elevation 1,500 m. Heads semiloose. Glumes $\frac{1}{2}$ of seeds, brown. Seeds medium large, chalky white with brown tinge.
329859. Col. No. R-327. Elevation 1,500 m. Heads broadly lanceolate, semicompact, seed clustered, 46 cm. long. Glumes $\frac{1}{3}$ of seed, tan. Seed large, pearly tan. High quality.
329860. Col. No. R-328. Elevation 1,500 m. Heads broadly lanceolate, semicompact, seeds clustered. Glumes $\frac{1}{3}$ of seeds, shiny black. Seeds medium large, chalky white.
329861. Col. No. R-330. Elevation 2,100 m. Heads cylindrical, semicompact, seeds clustered, 15 cm. long. Glumes $\frac{1}{3}$ of seed, mahogany, awned. Seed shiny, dark red. High elevation type.
329862. Col. No. R-331. Elevation 2,300 m. Heads open, with weak extended rachis. Glumes $\frac{1}{3}$ of seed, mahogany, awned. Seeds small, reddish brown.
329863. Col. No. R-336. Heads cylindrical, 15 cm. 1 ng. Glumes $\frac{3}{4}$ of seed, mahogany, awned. Seeds small, dark brown.

Market Chancho.

329864. Col. No. R-337. Seeds red, amber and yellow.
329865. Col. No. R-338. Seeds mixed, white, yellow and orange.
329866. Col. No. R-339. Seeds mixed.
329867. Col. No. R-340. Seeds orange.
329868. Col. No. R-341. Seeds mixed.

East of Addis Ababa, Shoa and Harrar Provinces. Local name Mashila.

329869. Col. No. R-301A. Elevation 2,250 m. On the Harrar road.

329250 to 330302—Continued

329253 to 330270—Continued

329870.	Col. No. R-302A.	Elevation 2,250 m.	
329871.	Col. No. R-304A.	Elevation 2,100 m.	
329872.	Col. No. R-305A.	Elevation 2,100 m.	
329873.	Col. No. R-306A.	Elevation 2,100 m.	
329874.	Col. No. R-307A.	Elevation 2,100 m.	
329875.	Col. No. R-308A.	Elevation 1,950 m.	
329876.	Col. No. R-309A.	Elevation 2,250 m.	
329877.	Col. No. R-310A.	Elevation 2,100 m.	
329878.	Col. No. R-311A.	Elevation 2,100 m.	
329879.	Col. No. R-312A.	Elevation 1,950 m.	
329880.	Col. No. R-313A.	Harrar road.	
329881.	Col. No. R-314A.	Elevation 2,400 m.	
329882.	Col. No. R-315A.	Elevation 2,550 m.	
329883.	Col. No. R-316A.	Elevation 2,700 m.	
329884.	Col. No. R-317A.	Elevation 2,700 m.	
329885.	Col. No. R-318A.	Elevation 2,700 m.	
329886.	Col. No. R-319A.	Elevation 2,700 m.	
329887.	Col. No. R-320A.	Elevation 2,700 m.	
329888.	Col. No. R-321A.	Elevation 2,700 m.	
329889.	Col. No. R-322A.	Elevation 2,700 m.	
329890.	Col. No. R-323A.	Elevation 2,550 m.	
329891.	Col. No. R-324A.	Elevation 2,550 m.	
329892.	Col. No. R-325A.	Elevation 2,700 m.	
329893.	Col. No. R-326A.	Elevation 2,700 m.	
329894.	Col. No. R-327A.	Elevation 2,700 m.	
329895.	Col. No. R-328A.	Elevation 2,550 m.	
329896.	Col. No. R-329A.	Elevation 2,400 m.	
329897.	Col. No. R-330A.	Elevation 2,400 m.	
329898.	Col. No. R-331A.	Elevation 2,400 m.	Kulubi on Harrar road.
329899.	Col. No. R-332A.	Elevation 2,700 m.	
329900.	Col. No. R-333A.	Elevation 2,550 m.	
329901.	Col. No. R-334A.	Elevation 2,700 m.	
329902.	Col. No. R-335A.	Elevation 2,700 m.	
329903.	Col. No. R-336A.	Elevation 2,700 m.	
329904.	Col. No. R-337A.	Elevation 2,550 m.	
329905.	Col. No. R-338A.	Elevation 2,400 m.	
329906.	Col. No. R-339A.	Elevation 2,250 m.	
329907.	Col. No. R-341A.	Elevation 2,250 m.	
329908.	Col. No. R-342A.	Elevation 2,250 m.	
329909.	Col. No. R-343A.	Elevation 2,100 m.	
329910.	Col. No. R-344A.	Elevation 1,950 m.	

329250 to 330302—Continued

329253 to 330270—Continued

329911. Col. No. R-345A. Elevation 1,950 m.
 329912. Col. No. R-346A. Elevation 1,950 m. Near Alemaya.
 329913. Col. No. R-347A. Elevation 1,890 m. Near Alemaya.
 329914. Col. No. R-348A. Elevation 1,950 m. Near Alemaya.
 329915. Col. No. R-349A. Elevation 1,920 m. Alemaya.
 329916. Col. No. R-350A. Elevation 1,950 m. Near Harrar.
 329917. Col. No. R-351A. Elevation 2,700 m.

Collected by Haile Selassie University, College of Agriculture, Alemaya, at places indicated.

329918. Col. No. R-348. Nazareth, Shoa Province. Heads open, extended rachis. Glumes $\frac{3}{4}$ of seed, tan, awned. Seed small, light brown.
 329919. Col. No. R-349. Kobbo, Wollo Province. Head open, rachis retracted, 20 cm. Glumes $\frac{1}{2}$ of seed, awned.
 329920. Col. No. R-350. Hirna, Harrar Province. Head elliptical, semi-open, 18 cm. long. Glumes $\frac{2}{3}$ of seed, awned. Seed small.
 329921. Col. No. R-357. Arbereket, Harrar Province.
 329922. Col. No. R-358. Local name Eja Hara. Dedesa Valley.
 329923. Col. No. R-360. 'S-59-13-4'. Gambela, Illubabor Province.
 329924. Col. No. R-363. Harrar Province.
 329925. Col. No. R-367. Harrar Province.
 329926. Col. No. R-368. Harrar Province.
 329927. Col. No. R-370.
 329928. Col. No. R-371.
 329929. Col. No. R-372.
 329930. Col. No. R-373.
 329931. Col. No. R-374.
 329932. Col. No. R-375.
 329933. Col. No. R-376.
 329934. Col. No. R-377.
 329935. Col. No. R-378.
 329936. Col. No. R-379. Heads lanceolate, semicompact, seeds clustered, 25 cm. long. Glumes $\frac{1}{3}$ or less, purple and tan, transversely creased, awned short. Seeds pearly dark red. Selected from P.I. 329958.
 329937. Col. No. R-380. Heads broadly ovate, compact, 13 cm. long. Glumes less than $\frac{1}{3}$ of seed, transversely creased, tan-purplish-brown, awns short. Seeds medium small, reddish yellow, pearly.
 329938. Col. No. R-381. Heads cylindrical lanceolate, 23 cm. long, semi-compact. Glumes less than $\frac{1}{3}$ of seed, tan to straw color, awns short. Seeds small, dark red, pearly. Selected from P.I. 329964.
 329939. Col. No. R-382. Heads open, rachis extended, 36 cm. long. Glumes $\frac{1}{2}$ of seed, purple, transversely creased, awned. Seeds medium, pearly gray brown. Selected from P.I. 329967.
 329940. Col. No. R-383. Heads open, rachis extended, 36 cm. long. Glumes cover seed, purple, transversely creased, awned. Seeds medium, reddish brown.

329250 to 330302—Continued**329253 to 330270—Continued**

- 329941.** Col. No. R-384. Heads broadly ovate, 20 cm. long, compact, seeds clustered. Glumes $\frac{1}{2}$ of seed, transversely creased, brown, awns short. Seeds medium small, pearly brownish red. Selected from P.I. 329948.
- 329942.** Col. No. R-385. Heads ovate, semicompact, seeds clustered, 20 cm. long. Glumes $\frac{1}{2}$ of seed, chocolate, transversely creased. Seeds medium large, pearly white. Selected from P.I. 329987.
- 329943.** Col. No. R-386. Heads open, rachis extended, 36 cm. long. Glumes $\frac{1}{2}$ of seed, purple, transversely creased, awned. Seeds medium, yellowish brown.
- 329944.** Col. No. R-387. Heads lanceolate, seeds clustered, compact, 25 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany, transversely creased, awned. Seeds medium small, pearly dark red. Selected from P.I. 330009.
- 329945.** Col. No. R-388. Heads open, extended rachis, 41 cm. long. Glumes cover seed, red mahogany, shiny, awned. Seeds medium, brown. Selected from P.I. 330026.
- 329946.** Col. No. R-389. Heads open, rachis extended, 33 cm. long. Glumes $\frac{1}{2}$ of seed, shiny purple, awned. Seeds pearly, light brown, medium small.
- 329947.** Col. No. R-401. Heads ovate, compact, 13 cm. long. Glumes $\frac{1}{2}$ of seed, light brown, awns short. Seeds medium large, broadly ovate, pearly, light tan.
- 329948.** Col. No. R-402. Heads cylindrical to open, 46 cm. long. Glumes $\frac{3}{4}$ of seed, brown, awns short. Seeds medium small, dark reddish brown.
- 329949.** Col. No. R-403. Heads ovate-lanceolate, semicompact, seeds clustered. Glumes $\frac{1}{2}$ of seeds, straw colored, awned. Seeds medium small, pearly tan.
- 329950.** Col. No. R-405. Heads cylindrical lanceolate, semi-open, seeds clustered, 23 cm. long. Glumes $\frac{1}{2}$ of seeds, brown, awned. Seeds small, light brown.
- 329951.** Col. No. R-406. Heads broadly ovate, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany, awned. Seeds small, brown.
- 329952.** Col. No. R-407. Heads cylindrical to semi-open, rachis extended. Glumes $\frac{1}{3}$ of seeds, black, awned. Seeds small, pearly light brown.
- 329953.** Col. No. R-408. Heads ovate-lanceolate, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, tan, awned. Seeds medium small, brown.
- 329954.** Col. No. R-409. Heads open, lax, rachis retracted. Glumes $\frac{1}{2}$ of seed, mahogany, awned. Seeds small, pearly brown.
- 329955.** Col. No. R-410. Heads cylindrical, semi-open, rachis slightly retracted, 30 cm. long. Glumes $\frac{2}{3}$ of seeds, straw color reddish tinged, awned. Seeds small, tan.
- 329956.** Col. No. R-411. Heads open, lax, retracted rachis. Glumes $\frac{1}{2}$ of the seed, straw color, awned. Seeds small, brown.
- 329957.** Col. No. R-412. Heads cylindrical, semi-open, rachis slightly retracted. Glumes $\frac{1}{2}$ of seed, straw colored, awned. Seeds small, pearly brown.
- 329958.** Col. No. R-413. Heads cylindrical to lanceolate, semi-open, seeds clustered, 20 cm. long. Glumes less than $\frac{1}{2}$ of seed, brown, awned. Seeds small, light brown.

329250 to 330302—Continued

329253 to 330270—Continued

329959. Col. No. R-414. Heads ovate, seeds clustered, semicompact, 15 cm. long. Glumes $\frac{1}{3}$ of seeds, brown, awns short. Seeds medium large, broadly ovate, pearly tan.
329960. Col. No. R-416. Heads broadly ovate to lanceolate, semi-open, 41 cm. long. Glumes $\frac{1}{2}$ of seed, tan, awned. Seed medium small.
329961. Col. No. R-417. Heads cylindrical, semicompact, 20 cm. long. Glumes $\frac{1}{3}$ of seeds, tan, awned. Seeds small, brown.
329962. Col. No. R-420. Heads ovate, compact, 10 cm. long. Glumes less than $\frac{1}{2}$ of seed, tan, awns short. Seeds medium, pearly tan.
329963. Col. No. R-421. Heads cylindrical to open, 46 cm. long. Glumes $\frac{3}{4}$ of seed, brown, awns short. Seeds medium small, dark reddish brown.
329964. Col. No. R-422. Heads lanceolate, semicompact, 25 cm. long. Glumes $\frac{1}{2}$ of seeds, tan, awned. Seeds very small, reddish brown.
329965. Col. No. R-423. Heads open, extended rachis, 30 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany, awned. Seeds small, pearly brown.
329966. Col. No. R-424. Heads ovate-lanceolate, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, tan, awned. Seeds medium small, brown.
329967. Col. No. R-425. Heads semicompact, open, rachis retracted, 15 cm. long. Glumes $\frac{1}{2}$ of seeds, tan, awned. Seeds small, brown.
329968. Col. No. R-428. Heads ovate to lanceolate, semicompact, seeds clustered, 20 cm. long. Glumes $\frac{1}{2}$ of seed, purplish, awns short. Seeds small, tan.
329969. Col. No. R-429. Heads semicompact, open, rachis retracted, 15 cm. long. Glumes $\frac{1}{2}$ of seeds, tan, awned. Seeds small, brown.
329970. Col. No. R-430. Heads cylindrical, semi-open, 30 cm. long. Glumes $\frac{1}{2}$ of seeds, mahogany, awns short. Seeds small, shiny red. High elevation type.
329971. Col. No. R-431. Heads ovate, compact, seeds clustered, 15 cm. long. Glumes $\frac{1}{3}$ of seeds, dark brown mahogany. Seeds medium large, broadly ovate, pearly orange brown.
329972. Col. No. R-432. Heads ovate lanceolate, semicompact, 15 cm. long. Glumes $\frac{1}{2}$ of seeds, mahogany, awned. Seeds medium small, pearly reddish tan.
329973. Col. No. R-434. Heads ovate lanceolate, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, tan, awned. Seeds medium small, brown.
329974. Col. No. R-435. Heads ovate, seeds clustered, very compact, 15 cm. long. Glumes less than $\frac{1}{3}$ of seeds, transversely creased, brown, awns short. Seeds medium large, broadly ovate, pearly lemon color.
329975. Col. No. R-436. Heads open, lax, rachis retracted. Glumes $\frac{3}{4}$ of seeds, tan with a mahogany base, awned. Seeds small, tan.
329976. Col. No. R-437. Heads ovate, compact, seeds clustered, 13 cm. long. Glumes $\frac{1}{3}$ of seeds, brown, awns short. Seeds medium small, pearly white.
329977. Col. No. R-438. Heads broadly ovate, seeds clustered, very compact, 15 cm. long. Glumes less than $\frac{1}{3}$ of seed, brown, awns short. Seeds small, brown.
329978. Col. No. R-439. Heads ovate-lanceolate, seeds clustered, 41 cm. long. Glumes $\frac{1}{2}$ of seeds, mahogany. Seeds medium small, light brown.

329250 to 330302—Continued**329253 to 330270—Continued**

- 329979.** Col. No. R-440. Heads ovate, seeds clustered, semicompact, 18 cm. long. Glumes $\frac{1}{2}$ of seed, brown, awns short. Seeds medium small, broadly ovate, reddish light brown.
- 329980.** Col. No. R-441. Heads open, rachis extended, 38 cm. long. Glumes $\frac{2}{3}$ of seeds, chocolate, awned. Seeds small, pearly brown.
- 329981.** Col. No. R-442. Heads broadly ovate, seeds clustered, very compact. Glumes less than $\frac{1}{3}$ of seed, brown, awns short. Seeds small, light brown, pearly.
- 329982.** Col. No. R-443. Heads cylindrical to lanceolate, seeds clustered, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, tan, awns short. Seeds small, reddish brown.
- 329983.** Col. No. R-444. Heads open, rachis retracted. Glumes $\frac{1}{3}$ of seeds, tan, awns short. Seeds small, pearly brown.
- 329984.** Col. No. R-445. Heads ovate, seeds clustered, very compact. Glumes $\frac{1}{3}$ of seed, straw color, awns short. Seeds medium small, broadly ovate, pearly white.
- 329985.** Col. No. R-446. Heads cylindrical to open, extended rachis, 36 cm. long. Glumes $\frac{2}{3}$ of seeds, tan, awned. Seeds medium large, pearly brown.
- 329986.** Col. No. R-447. Heads semi-open, retracted rachis. Glumes covers the seed, mahogany, awned. Seeds small.
- 329987.** Col. No. R-448. Heads ovate lanceolate, semicompact, seeds clustered, 20 cm. long. Glumes $\frac{1}{3}$ of seed, brown. Seeds medium large, pearly tan.
- 329988.** Col. No. R-449. Heads open lax, rachis retracted. Glumes cover the seed, straw color, awned. Seeds small, pearly tan.
- 329989.** Col. No. R-451. Heads open, rachis retracted. Glumes $\frac{3}{4}$ of seed, awned. Seeds small.
- 329990.** Col. No. R-452. Heads open, rachis retracted. Glumes $\frac{3}{4}$ of seed, awned. Seeds small.
- 329991.** Col. No. R-453. Heads open, rachis extended. Glumes $\frac{1}{2}$ of seeds, straw colored, awned. Seeds small, pearly brown.
- 329992.** Col. No. R-454. Heads ovate, semi-open, 20 cm. long. Glumes $\frac{1}{3}$ of seeds, tan, awns short. Seeds medium, pearly light tan.
- 329993.** Col. No. R-455. Heads cylindrical lanceolate, semicompact. Glumes $\frac{1}{3}$ of seeds, brown, awned. Seeds small, pearly light brown.
- 329994.** Col. No. R-456. Heads ovate, very compact, 10 cm. long. Glumes $\frac{1}{3}$ of seeds, dark brown, awned. Seeds medium large, pearly brown.
- 329995.** Col. No. R-457. Heads open, rachis retracted. Glumes $\frac{3}{4}$ of seeds, awned. Seeds small.
- 329996.** Col. No. R-458. Heads broadly ovate, very compact, 15 cm. long. Glumes $\frac{1}{2}$ of seeds, purplish brown, awns short. Seeds small, brown.
- 329997.** Col. No. R-459. Heads cylindrical to lanceolate. Glumes $\frac{1}{2}$ of seed, straw colored, awned. Seeds medium large, pearly lemon color.
- 329998.** Col. No. R-460. Heads cylindrical, semi-open, 28 cm. long. Glumes $\frac{1}{3}$ of seeds, chocolate, awned. Seeds medium, light brown.
- 329999.** Col. No. R-461. Heads cylindrical, semi-open, 30 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany, awned. Seeds small, shiny red. High elevation type.

329250 to 330302—Continued

329253 to 330270—Continued

330000. Col. No. R-462. Heads ovate lanceolate, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, brown, awns short. Seeds medium, pearly white.
330001. Col. No. R-463. Heads ovate lanceolate, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, brown, awns short. Seeds medium, pearly white.
330002. Col. No. R-464. Heads cylindrical to lanceolate, semi-open, 30 cm. long. Glumes $\frac{1}{3}$ of seeds, transversely creased, black. Seeds small, shiny red. High elevation type.
330003. Col. No. R-465. Heads ovate, semicompact, 15 cm. long. Glumes $\frac{1}{3}$ of seeds, tan, awned. Seeds small, light tan.
330004. Col. No. R-466. Heads ovate, very compact, seeds clustered, 15 cm. long. Glumes $\frac{1}{3}$ of seeds, brown, awned. Seeds small, brown.
330005. Col. No. R-467. Heads broadly ovate, semicompact, 20 cm. long. Glumes $\frac{1}{3}$ of seeds, brown, awns short. Seeds medium large, broadly ovate, pearly reddish tan.
330006. Col. No. R-469.
330007. Col. No. R-471. Heads cylindrical, semi-open, 36 cm. long. Glumes $\frac{2}{3}$ of seeds, brown, awned. Seeds medium large, dark brown.
330008. Col. No. R-472. Heads ovate, very compact, 13 cm. long. Glumes $\frac{1}{3}$ of seeds, brown awned. Seeds medium large, broadly ovate, pearly reddish brown.
330009. Col. No. R-473. Heads cylindrical to lanceolate, 28 cm. long. Glumes $\frac{1}{3}$ of seeds, brown chocolate, awned. Seeds small, red.
330010. Col. No. R-475. Heads cylindrical, semi-open, 36 cm. long. Glumes $\frac{2}{3}$ of seeds, brown, awned. Seeds medium large, dark brown.
330011. Col. No. R-476. Heads cylindrical, semi-open, 36 cm. long. Glumes $\frac{2}{3}$ of seeds, brown, awned. Seeds medium large, dark brown.
330012. Col. No. R-477. Heads cylindrical, semi-open, rachis extended, 36 cm. long. Glumes $\frac{2}{3}$ of seeds, brown, awned. Seeds medium large, dark brown.
330013. Col. No. R-478. Heads broadly lanceolate, semi-open, 30 cm. long. Glumes $\frac{1}{2}$ of seeds, straw colored, awned. Seeds medium large, broadly ovate, pearly lemon color with red tinge.
330014. Col. No. R-479. Heads ovate, very compact, seeds clustered, 15 cm. long. Glumes $\frac{1}{3}$ of seeds, brown, short awned. Seeds medium, brown.
330015. Col. No. R-480. Heads open, extended, rachis, 41 cm. long. Glumes cover seed, tan brown, awned. Seeds small, brown.
330016. Col. No. R-481. Heads cylindrical lanceolate, semicompact, 20 cm. long.
330017. Col. No. R-482. Heads broadly ovate, very compact, 15 cm. long. Glumes $\frac{1}{3}$ of seeds, awn short. Seeds small.
330018. Col. No. R-483. Heads cylindrical, semi-open, 15 cm. long. Glumes $\frac{1}{2}$ of seeds, straw color, awned. Seeds small, pearly brown.
330019. Col. No. R-484. Heads open, lax, rachis retracted. Glumes $\frac{3}{4}$ of seeds, transversely creased, tan, sienna base, awned. Seeds small, pearly brown.
330020. Col. No. R-485. Heads lanceolate, semi-open, 30 cm. long. Glumes $\frac{1}{2}$ of seeds, tan to brown, awned. Seeds small, red. High elevation type.

329250 to 330302—Continued

329253 to 330270—Continued

330021. Col. No. R-486. Heads ovate, semi-open, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, brown, awned. Seeds medium large, broadly ovate, pearly white.
330022. Col. No. R-487. Heads open rachis extended. Glumes $\frac{1}{2}$ of seeds, brown, awn. Seeds small, shiny reddish brown. High elevation type.
330023. Col. No. R-488. Heads broadly lanceolate, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seeds, brown, awned. Seeds reddish brown, small.
330024. Col. No. R-489. Heads broadly ovate, very compact, seeds clustered, 15 cm. long. Glumes $\frac{1}{3}$ of seeds, brown, awns short. Seeds medium, light brown.
330025. Col. No. R-490. Heads open, rachis retracted, 20 cm. long. Glumes $\frac{1}{2}$ of seed, straw colored, awned. Seeds small, pearly tan.
330026. Col. No. R-491. Heads lanceolate, semi-open, 36 cm. long. Glumes cover the seed, reddish brown, awned. Seeds small, brown.
330027. Col. No. R-492. Heads open, rachis extended. Glumes $\frac{2}{3}$ of seeds, tan, awned. Seeds small, pearly light brown.
330028. Col. No. R-493. Heads broadly elliptical, semicompact, 25 cm. long. Glumes $\frac{1}{2}$ of seed, black, awned. Seeds medium large, pearly white.
330029. Col. No. R-494. Heads broadly elliptical, open, strong extended rachis, 25 cm. long. Glumes $\frac{2}{3}$ of seed, chocolate, awned. Seeds small, shiny brown.
330030. Col. No. R-495. Heads open, rachis extended, 30 cm. long. Glumes $\frac{1}{3}$ of seeds, mahogany, awned. Seeds small, light brown.
330031. Col. No. R-496. Heads open, semiretracted rachis, 20 cm. long. Glumes $\frac{1}{2}$ of seed, straw colored, awned. Seeds medium large, broadly ovate, pearly white.
330032. Col. No. R-497. Heads broadly ovate, very compact, seed clustered. Glumes $\frac{1}{2}$ of seed, reddish brown, awned. Seeds small.
330033. Col. No. R-498. Heads semi-open, rachis slightly retracted; glumes one-third of seed, straw color, awned; seeds medium large, broadly ovate, lemon, pearly.
330034. Col. No. R-499. Heads broadly ovate, very compact, seed clustered, 15 cm. long; glumes one-third of seed, brown, awned; seed small, brown.
330035. Col. No. R-500. Heads open, rachis retracted, 15 cm. long; glumes one-half of seed, tan, awned; seed small, tan. Local name Mashila.
330036. Col. No. R-501. Head medium long, semicompact, cylindrical to lanceolate, seed clustered; glumes medium, sienna, tan, wrinkled; awns long, conspicuous; seed medium large, reddish yellow.
330037. Col. No. R-502. Head medium, semicompact, broadly ovate, seed clustered; glumes short, purple tan, tomentose, wrinkled; awns medium long, conspicuous; seed large, yellow.
330038. Col. No. R-503. Head large, semicompact, cylindrical to lanceolate, seed clustered; glumes medium long, purple, tomentose, wrinkled; awns medium long, inconspicuous; seed large, brownish.
330039. Col. No. R-504. Head medium, semicompact to semi-open, cylindrical to lanceolate; glumes medium short, purple, tan, wrinkled; awns short, inconspicuous; seed medium large, light reddish brown, semiglobose.

329250 to 330302—Continued

329253 to 330270—Continued

330040. Col. No. R-505. Head medium, semicompact, cylindrical to lanceolate, seed clustered; glumes long, purple, tan, tomentose, persistent; awns medium, semiconspicuous; florets pedicelled; seed medium long; brown.
330041. Col. No. R-506. Head medium large; glumes medium long, purple, wrinkled; awns medium long, semiconspicuous; seed medium, reddish yellow.
330042. Col. No. R-507. Head medium, compact, lanceolate, seed clustered; glumes medium short, purple, tan, wrinkled; awns medium, inconspicuous; seed medium, dark red, semiglobose.
330043. Col. No. R-508. Head medium small, very compact, ovate, seed clustered; glumes short, purple, tan, wrinkled; awns very inconspicuous; seed medium, white. Durra type.
330044. Col. No. R-509. Head large, semicompact to compact, seed clustered; glumes medium, purple, tan, transverse wrinkled; awns medium short, semiprominent; seed medium, dark red, semiglobose.
330045. Col. No. R-510. Head large, semicompact to semi-open, broadly ovate, seed clustered; glumes medium long, purple, tomentose, wrinkled; awns medium short, semiconspicuous; seed medium long, gray brown, semiglobose.
330046. Col. No. R-511. Head medium, compact, seed clustered; glumes medium short, purple, wrinkled; awns small, semiconspicuous; seed medium, dark red.
330047. Col. No. R-512. Head medium, compact, broadly ovate, seed clustered; glumes short, mahogany, wrinkled; awns short, semiconspicuous; seed medium large, reddish yellow, slightly dimpled.
330048. Col. No. R-513. Head large, long, semicompact to semi-open, lanceolate, seed clustered; glumes medium short, purple, tan, transverse wrinkled; awns medium; seed medium large, reddish brown, semiglobose.
330049. Col. No. R-514. Head large, semi-open, cylindrical to semi-lanceolate; glumes medium long, purple, tomentose, wrinkled; awns medium long, semiconspicuous; seed medium small, yellowish red.
330050. Col. No. R-515. Head medium, semicompact, lanceolate, seed clustered; glumes medium long, purple, tan, tomentose; awns short, inconspicuous; seed medium, white.
330051. Col. No. R-516. Head medium, semicompact to semi-open, cylindrical to lanceolate; glumes medium short, sienna, tan, tomentose; awns medium short, inconspicuous; seed medium, dark red.
330052. Col. No. R-517. Head medium, compact, lanceolate, seed clustered; glumes short, purple, tan; awns medium, inconspicuous; seed medium small, red. Twin seeded.
330053. Col. No. R-518. Head medium small, very compact, ovate, seed clustered; glumes short, purple, tan, wrinkled; awns small, inconspicuous; seed medium large, light reddish yellow. Durra type.
330054. Col. No. R-519. Head medium small, semicompact, lanceolate, seed clustered; glumes medium, purple, tan, tomentose, wrinkled; awns medium small, inconspicuous; seed medium large, semiglobose.
330055. Col. No. R-520. Head small, very compact, obovate, seed clustered; glumes short, tan, tomentose; seed medium, white. Durra type.

329250 to 330302—Continued**329253 to 330270—Continued**

- 330056.** Col. No. R-521. Head small, compact, lanceolate, seed clustered; glumes medium short, purple; seed medium, white.
- 330057.** Col. No. R-522. Head large, semicompact to compact, seed clustered; glumes medium short, purple, tomentose, wrinkled; awns medium long, inconspicuous; seed large, light brown.
- 330058.** Col. No. R-523. Head medium, semicompact to compact, cylindrical to ovate, seed clustered; glumes short, mahogany, transverse wrinkled; seed medium large, reddish yellow.
- 330059.** Col. No. R-524. Head medium, semicompact, seed clustered; glumes short, purple, tan, tomentose; seed medium large, yellowish white.
- 330060.** Col. No. R-525. Head small, very compact, ovate, seed clustered; glumes short, tan, tomentose; awns short, inconspicuous; seed medium. Durra type.
- 330061.** Col. No. R-526. Head medium small, semicompact to semi-open, cylindrical to broadly ovate; glumes medium long, purple, tan tomentose, wrinkled; seed medium, white, semiglobose.
- 330062.** Col. No. R-527. Head small, very compact, ovate, seed clustered; glumes short, mahogany; seed medium, light yellow. Durra type.
- 330063.** Col. No. R-528. Head medium, semicompact, cylindrical to lanceolate; glumes medium long, purple, semitomentose, wrinkled; awns medium, semi-inconspicuous; seed medium large, light red, semiglobose.
- 330064.** Col. No. R-529. Head medium small, semicompact to semi-open, broadly ovate, seed clustered; glumes medium long, tan, tomentose, wrinkled; awns medium long, semiconspicuous; seed medium large, white, semiglobose.
- 330065.** Col. No. R-530. Head medium small, very compact, ovate, seed clustered; glumes short, purple, tan; seed medium, light. Durra type.
- 330066.** Col. No. R-531. Head medium, compact, short cylindrical to ovate, seed clustered; glumes short, purple to tan, wrinkled; awns semi-inconspicuous; seed medium large, light yellow. Durra type.
- 330067.** Col. No. R-532. Head medium small, semicompact, lanceolate, seed clustered; glumes medium short, mahogany, tomentose, wrinkled; awns medium, conspicuous; seed medium, dark red.
- 330068.** Col. No. R-533. Head medium small, very compact, seed clustered; glumes short, mahogany, wrinkled; awns short, inconspicuous; seed medium large, yellowish red, dimpled. Durra type.
- 330069.** Col. No. R-534. Head medium, semicompact to semi-open, cylindrical; glumes medium short, tan, tomentose, wrinkled; awns medium long, semiconspicuous; seed large, white, semiglobose.
- 330070.** Col. No. R-535. Head medium, seed clustered; glumes short, dark mahogany, tan, wrinkled; awns inconspicuous; seed medium small, dark red, semiglobose.
- 330071.** Col. No. R-536. Head medium small, very compact, ovate, seed clustered; glumes short, tan, wrinkled; awns short, inconspicuous; seed medium large, yellow. Durra type.
- 330072.** Col. No. R-537. Head small, very compact, ovate, seed clustered; glumes short, tan, tomentose; seed medium, white, semiglobose. Durra type.

329250 to 330302—Continued

329253 to 330270—Continued

330073. Col. No. R-538. Head medium small, very compact, ovate, seed clustered; glumes short, tan, wrinkled; seed medium, white. Durra type.
330074. Col. No. R-539. Head medium, semicompact, cylindrical to lanceolate, seed clustered; glumes medium long, purple, tan, wrinkled; awns medium, inconspicuous; seed medium, brown, semiglobose.
330075. Col. No. R-540. Head medium large, semi-open, seed clustered; glumes medium, purple, tan, wrinkled; awns short, inconspicuous; florets pedicelled; seed medium, reddish brown, semiglobose.
330076. Col. No. R-541. Head medium small, semicompact, lanceolate, seed clustered; glumes medium, purple, tan, tomentose, wrinkled; awns long, semiconspicuous; seed medium large, reddish brown, semiglobose.
330077. Col. No. R-542. Head very small, very compact, ovate, seed clustered; glumes medium short, purple; awns medium, inconspicuous; seed medium small, white. Durra type.
330078. Col. No. R-543. Head large, semicompact to semi-open, broadly lanceolate, seed clustered; glumes medium long, purple, wrinkled; awns medium, inconspicuous; seed medium large, reddish brown.
330079. Col. No. R-544. Head small, semi-open, lanceolate; glumes long, purple, tomentose, persistent; awns medium long, conspicuous; seed medium, brown. Durra type.
330080. Col. No. R-545. Head medium, compact, seed clustered; glumes short, purple, tan, wrinkled; seed medium large, reddish yellow.
330081. Col. No. R-546. Head medium large, seed clustered; glumes medium long, purple; seed medium, yellowish red, semiglobose. Durra type.
330082. Col. No. R-548. Head large; glumes medium, purple, tan, semitomentose; awns medium long, conspicuous; seed medium, yellowish red, semiglobose.
330083. Col. No. R-549. Head large, compact to semicompact, lanceolate, seed clustered; glumes medium short, purple, tan, tomentose, wrinkled; awns short, inconspicuous; florets pedicelled; seed medium large, dark reddish brown.
330084. Col. No. R-550. Head medium large, semicompact to semi-open, cylindrical to semilanceolate; glumes medium long, purple, tan, tomentose, wrinkled; awns medium, conspicuous; seed medium, reddish brown.
330085. Col. No. R-551. Head large, semicompact to compact, cylindrical to lanceolate, seed clustered; glumes medium, purple, wrinkled; awns medium, inconspicuous; seed medium large, reddish brown, semiglobose.
330086. Col. No. R-552. Head medium large, very compact, obovate, seed clustered; glumes short, mahogany, tan, semitomentose; awns short, inconspicuous; seed medium, yellowish red, semiglobose. Durra type.
330087. Col. No. R-553. Head medium large, semicompact to compact, seed clustered; glumes medium short, purple, tomentose, wrinkled; awns medium short, inconspicuous; seed medium, brownish red, semiglobose to semiturtleback.
330088. Col. No. R-554. Head medium, seed clustered; glumes medium short, purple, wrinkled; awns medium, conspicuous; seed medium small, reddish yellow, semiglobose.

329250 to 330302—Continued**329253 to 330270—Continued**

- 330089.** Col. No. R-555. Head large, very compact, obovate, seed clustered; glumes short, tan, tomentose; awns short, inconspicuous; seed medium, yellowish red. Durra type.
- 330090.** Col. No. R-556. Head medium small, compact, lanceolate, seed clustered; glumes short, mahogany, tan, wrinkled, awns very short, very inconspicuous; seed medium, dark red, semiglobose.
- 330091.** Col. No. R-557. Head medium small, semicompact, cylindrical, seed clustered; glumes short, mahogany, tan; awns short, inconspicuous; seed medium small, dark red, semiglobose.
- 330092.** Col. No. R-558. Head medium large, semicompact, broadly ovate, seed clustered; glumes medium, purple, tomentose, wrinkled; seed medium large, brownish yellow.
- 330093.** Col. No. R-559. Head medium, semicompact to compact, cylindrical to lanceolate, seed clustered; glumes medium short, tan, semitomentose; seed medium large, white, semiglobose.
- 330094.** Col. No. R-560. Head medium, semicompact, cylindrical to lanceolate, seed clustered; glumes medium short, purple, tan, tomentose, wrinkled; seed medium large, white, semiglobose.
- 330095.** Col. No. R-561. Head medium, compact to semicompact, broadly elliptic, seed clustered; glumes medium, purple, tomentose, wrinkled; awns short, inconspicuous; seed medium large, brownish red, semiglobose to semiturtleback.
- 330096.** Col. No. R-562. Head medium large, semicompact, cylindrical to lanceolate, seed clustered; glumes short, tan, tomentose, wrinkled; seed large, brown.
- 330097.** Col. No. R-563. Head medium, semicompact to semi-open, cylindrical to lanceolate; glumes medium short, purple, tan, tomentose, wrinkled; seed medium large, reddish brown, semiturtleback.
- 330098.** Col. No. R-564. Head medium, semicompact, cylindrical, seed clustered; glumes medium short, purple, tan, tomentose, wrinkled; awns short, inconspicuous; seed medium large, brownish red, semiglobose.
- 330099.** Col. No. R-565. Head medium, semicompact to semi-open, lanceolate, seed clustered; glumes long, purple, tomentose, wrinkled; awns short, inconspicuous; seed medium small, yellow.
- 330100.** Col. No. R-566. Head medium, semicompact, cylindrical to lanceolate, seed clustered; glumes medium short, purple, tomentose; seed medium to medium large, yellowish red.
- 330101.** Col. No. R-567. Head medium large, semicompact, broadly elliptic, seed clustered; glumes medium short, purple, tan, tomentose, wrinkled; awns medium short, conspicuous, seed medium, yellowish red, semiglobose.
- 330102.** Col. No. R-568. Head medium, long, open to spreading, broadly ovate; glumes medium, purple, tan, very tomentose, wrinkled; awns medium, inconspicuous; seed medium to medium large, brown.
- 330103.** Col. No. R-569. Head medium large, semicompact, cylindrical to lanceolate; glumes medium, mahogany, tan, tomentose, wrinkled; awns short, inconspicuous; seed medium, brownish red, semiglobose to semiturtleback.
- 330104.** Col. No. R-570. Head large, semicompact, cylindrical to lanceolate, seed clustered; glumes medium short, purple, wrinkled; seed medium small, dark red, semiglobose.

329250 to 330302—Continued**329253 to 330270—Continued**

- 330105.** Col. No. R-571. Head medium large, long, semicompact, cylindrical to lanceolate; glumes medium long, mahogany, tomentose, wrinkled; seed medium to medium large, reddish yellow, semiglobose.
- 330106.** Col. No. R-572. Head medium large, semicompact, cylindrical to lanceolate, seed clustered; glumes medium short, purple, tan, tomentose, wrinkled; awns short, inconspicuous; seed medium to medium large, semiglobose.
- 330107.** Col. No. R-573. Head medium, semicompact to compact, cylindrical to semilanceolate, seed clustered; glumes medium short, purple, tan, tomentose, wrinkled; awns short, inconspicuous; seed medium, white, semiglobose.
- 330108.** Col. No. R-574. Head medium, semi-open to semicompact, broadly ovate, seed clustered; glumes short, purple, tan, wrinkled; seed medium, white, semiglobose.
- 330109.** Col. No. R-575. Head medium small, semi-open to semicompact, broadly lanceolate; glumes medium short, purple, tan, tomentose, wrinkled; seed medium to medium small, white, semiglobose.
- 330110.** Col. No. R-576. Head medium small, semi-open, cylindrical to lanceolate; glumes medium long, sienna, tan, semitomentose; seed medium, white, semiglobose.
- 330111.** Col. No. R-577. Head medium large, semi-open to open, broadly elliptic; glumes medium short, purple, semitomentose, wrinkled; awns medium, semi-inconspicuous, seed medium to medium small, red, semiglobose.
- 330112.** Col. No. R-578. Head medium, semi-open, broadly lanceolate; glumes medium long, purple to chocolate, semitomentose, wrinkled; awns short, inconspicuous; florets staminate; seed medium, red, semiglobose.
- 330113.** Col. No. R-579. Head medium large, semicompact, lanceolate, seed clustered; glumes medium short, mahogany, tan, wrinkled; awns medium short, semiconspicuous; seed medium to medium small, dark red; semiglobose.
- 330114.** Col. No. R-580. Head very large, long, open, broadly ovate, seed clustered; glumes medium long, mahogany, tomentose, wrinkled; awns inconspicuous; florets pedicelled; seed medium small, reddish yellow, semiglobose.
- 330115.** Col. No. R-581. Head medium large, semi-open to semicompact, broadly elliptic; glumes medium, purple, wrinkled; awns medium, inconspicuous; seed medium small, reddish yellow, semiglobose.
- 330116.** Col. No. R-582. Head medium large, long, semicompact, lanceolate; glumes medium short, purple, tan, tomentose, wrinkled; seed medium large, reddish yellow, semiglobose.
- 330117.** Col. No. R-583. Head medium, semicompact, cylindrical to lanceolate, seed clustered; glumes medium, mahogany, tomentose, wrinkled; awns very short, inconspicuous; seed medium large, white, semiglobose.
- 330118.** Col. No. R-584. Head medium, compact to semicompact, lanceolate, seed clustered; glumes short, purple, wrinkled; awns short, inconspicuous; seed medium small, dark red, semiglobose.
- 330119.** Col. No. R-585. Head large, long, semicompact to compact, cylindrical to lanceolate; glumes medium, tan, tomentose, wrinkled; awns inconspicuous; seed medium large to large, semiglobose.

329250 to 330302—Continued**329253 to 330270—Continued**

- 330120.** Col. No. R-586. Head medium, long, semicompact, lanceolate; glumes medium, mahogany, tan, wrinkled; awns short, inconspicuous; seed small, dark red, semiglobose to semiturtleback.
- 330121.** Col. No. R-587. Head medium large, semi-open to spreading; glumes medium long, purple, wrinkled; awns medium short, semiconspicuous; seed medium small, reddish yellow, semiglobose.
- 330122.** Col. No. R-588. Head medium, very compact, broadly elliptic, seed clustered; glumes short, purple, tan, tomentose, wrinkled; seed medium large, brownish yellow. Durra type.
- 330123.** Col. No. R-589. Head medium to long, semicompact to semi-open, lanceolate; glumes medium long, purple, tan, wrinkled; awns medium, inconspicuous; seed medium, reddish yellow.
- 330124.** Col. No. R-590. Head medium large, semi-open to semicompact, broadly elliptic; glumes medium long, purple, tan, wrinkled; awns short, inconspicuous; seed medium to medium small, brownish yellow.
- 330125.** Col. No. R-591. Head medium, compact, lanceolate, seed clustered; glumes medium, purple, wrinkled; awns medium, very inconspicuous; seed medium, dark reddish brown.
- 330126.** Col. No. R-592. Head medium, semicompact, lanceolate, seed clustered; glumes medium long, chocolate; seed medium, dark brownish red.
- 330127.** Col. No. R-593. Head medium small, semicompact to compact, elliptic, seed clustered; glumes medium short, purple, tomentose, wrinkled; awns medium, inconspicuous; seed medium, dark red.
- 330128.** Col. No. R-594. Head medium, semicompact to semi-open, cylindrical to semi-elliptic, seed clustered; glumes medium, chocolate, tan, tomentose, wrinkled; awns short, inconspicuous; seed medium white, semiglobose.
- 330129.** Col. No. R-595. Head small, compact, elliptic, seed clustered; glumes short, purple, tomentose; seed medium, white, semiturtleback. Durra type.
- 330130.** Col. No. R-596. Head large, very compact, ovate, seed clustered; glumes short, purple, tomentose, wrinkled; awns short, inconspicuous; seed medium large, reddish yellow. Durra type.
- 330131.** Col. No. R-597. Head medium, long, semicompact to compact, cylindrical to lanceolate, seed clustered; glumes medium short, tan, wrinkled; awns medium short, semiconspicuous; seed medium, brownish red.
- 330132.** Col. No. R-598. Head medium large, compact to very compact, elliptic to lanceolate, seed clustered; glumes medium short, purple, tomentose, wrinkled; awns medium short, inconspicuous; seed medium, reddish yellow. Durra type.
- 330133.** Col. No. R-599. Head small, very compact to compact, elliptic to ovate, seed clustered; glumes medium short, mahogany, very tomentose; awns short, inconspicuous; seed medium large, brownish red. Durra type.
- 330134.** Col. No. R-600. Head medium small, compact to semicompact, cylindrical to lanceolate, seed clustered; glumes medium short, purple, tan, tomentose, wrinkled; awns short, very inconspicuous; seed medium, white.

329250 to 330302--Continued

329253 to 330270--Continued

330135. Col. No. R-601. Head medium small to medium, compact to semicompact, cylindrical to lanceolate, seed clustered; glumes medium short, purple, tan, tomentose, wrinkled; awns short, very inconspicuous; seed medium, reddish yellow, semiglobose.
330136. Col. No. R-602. Head medium, compact to semi-compact, cylindrical to lanceolate, seed clustered; glumes medium short, purple, tan, tomentose, wrinkled; awns medium short, inconspicuous; seed medium, white, semiglobose.
- North of Debre Sina, Shoa Province. Elevation 1,500-1,600 m.
330137. Col. No. P-1. Plant 3.6 m. high. Heads open, 30 cm. long and 20 cm. wide, rachis extended. Glumes $\frac{1}{2}$ of seed, brown, transversely creased, awned. Seeds medium, reddish brown.
330138. Col. No. P-2. Heads broadly ovate, to 15 cm. long, seeds clustered. Glumes less than $\frac{1}{3}$ of seed, straw color, awns obscure. Seeds medium small, pearly lemon. Good quality seed.
330139. Col. No. P-3. Heads broadly ovate, to 15 cm. long, seeds clustered. Glumes less than $\frac{1}{3}$ of seed, straw color, awns obscure. Seeds medium, pearly lemon. Good quality seed.
330140. Col. No. P-4. Heads loose, lax, 46 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany, awned. Seeds small, reddish brown.
330141. Col. No. P-5. Heads ovate, semicompact, 13 cm. long. Glumes less than $\frac{1}{2}$ of seed, dark brown, awned. Seeds medium small, pearly dark yellow. Stems sweet and juicy.
330142. Col. No. P-6. Heads ovate, semicompact, 18 cm. long. Glumes less than $\frac{1}{2}$ of seed, straw color, awned. Seeds medium small, pearly dark yellow. Stems sweet and juicy.
330143. Col. No. P-7. Heads cylindrical lanceolate, seeds clustered, 20 cm. long. Glumes less than $\frac{1}{2}$ of seeds, straw color, awned. Seeds medium large, pearly yellowish orange.
330144. Col. No. P-8. Heads ovate lanceolate, semicompact, seeds clustered, 25 cm. long. Glumes less than $\frac{1}{2}$ of seed, straw color. Seed medium, pearly white.
330145. Col. No. P-9. Heads ovate lanceolate, semicompact, seeds clustered, 30 cm. long. Glumes $\frac{1}{2}$ of seed, straw color. Seed medium large, white to pearly white.
330146. Col. No. P-10. Heads broadly ovate, very compact, seeds clustered, 13 cm. long. Glumes less than $\frac{1}{2}$ of seed, straw color, awned. Seeds medium small, pearly yellow to pearly orange.
330147. Col. No. P-11. Heads broadly elliptical, to 30 cm. long, seeds clustered. Glumes less than $\frac{1}{2}$ of seed, brown, awned. Seeds medium large, pearly orange.
330148. Col. No. P-12. Heads broadly elliptical, to 30 cm. long; seeds clustered. Glumes less than $\frac{1}{2}$ of seed, straw color, awned. Seeds medium large, pearly lemon.
330149. Col. No. P-13. Heads broadly ovate, very compact, to 20 cm. long, seeds clustered. Glumes less than $\frac{1}{2}$ of seed, light brown, awned. Seeds medium, pearly lemon.
330150. Col. No. P-14. Local name Lolaibalash. Heads open, 38 cm. long. Glumes $\frac{1}{2}$ of seed, brown, awned. Seeds large, pearly rose tan.
330151. Col. No. P-15. Heads conical, very compact, seeds clustered, 13 cm. long. Glumes less than $\frac{1}{2}$ of seed, straw color. Seeds twinned, small, white.

329250 to 330302—Continued

329253 to 330270—Continued

330152. Col. No. P-16. Heads open, loose, rachis retracted. Glumes $\frac{1}{2}$ of seed, black, awned. Seeds medium, pearly white.
330153. Col. No. P-18. Heads loose, semi-open, 46 cm. long. Glumes $\frac{1}{3}$ of seed, light brown, awned. Seeds medium large, pearly rose tan.
330154. Col. No. P-19. Heads cylindrical, semicompact, 30 cm. long. Glumes $\frac{1}{3}$ to $\frac{1}{2}$ of seed, straw color, awned. Seeds medium large, chalky white with reddish purple under coat.
330155. Col. No. P-20. Heads cylindrical, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seed, black. Seeds chalky white with brown subcoat (Feterita type).
330156. Col. No. P-21. Plant crookneck. Heads ovate, very compact, 13 cm. long. Glumes less than $\frac{1}{3}$ of seed, brown, awned. Seeds twinned, small, reddish-brown.
330157. Col. No. P-22. Heads broadly ovate to lanceolate, 28 cm. long, seeds clustered. Glumes less than $\frac{1}{3}$ of seed, straw color, awned. Seed large, pearly lemon.
330158. Col. No. P-23. Heads broadly ovate to lanceolate, 18 cm. long, very compact, seeds clustered. Glumes less than $\frac{1}{3}$ of seeds, light brown, awned. Seeds medium large, pearly orange.
330159. Col. No. P-25. Heads ovate cylindrical, compact, to 20 cm. long. Glumes less than $\frac{1}{3}$ of seeds, brown. Seeds twinned, medium, brown.
330160. Col. No. P-26. Heads cylindrical, semicompact, to 25 cm. long, seeds clustered. Glumes $\frac{1}{3}$ of seed, black. Seeds medium, chalky white with brown subcoat.
330161. Col. No. P-27. Heads semiloose, 30 cm. long. Glumes $\frac{1}{3}$ of seeds, black. Seeds medium small, chalky white with brown subcoat.
330162. Col. No. P-28. Heads ovate, very compact, seeds clustered, to 15 cm. long. Glumes mahogany, $\frac{1}{3}$ of seed, awned. Seeds medium, pearly orange.
330163. Col. No. P-29. Heads open, 46 cm. long. Glumes purplish-black, transversely creased, awned. Seeds medium large, rugose, rose tan.
330164. Col. No. P-30. Heads elliptical to cylindrical, semicompact, 28 cm. long. Glumes $\frac{1}{3}$ of seed, black. Seeds white to light tan, brown subcoat.
330165. Col. No. P-31. Plant 5.4 m tall. Heads lanceolate, compact, 46 cm. long. Glumes pubescent, straw color. Seeds medium, pinkish tinged white.
330166. Col. No. P-32. Plant 4.5 m tall. Heads semicompact, cylindrical, 46 cm. long. Glumes $\frac{1}{3}$ of seed, straw color, pubescent, awned. Seeds white tan.
- North of Weldiya, Wollo Province. Elevation 1,600 m.
330167. Col. No. P-34. Heads cylindrical, semicompact, 15 cm. long. Glumes $\frac{1}{2}$ of seed, chocolate brown, transversely creased. Seeds medium, chocolate brown.
330168. Col. No. P-35. Heads cylindrical, semicompact, 18 cm. long. Glumes less than $\frac{1}{2}$ of seed, straw color. Seeds medium, white. *Durra caudatum* type.
330169. Col. No. P-36. Heads lanceolate cylindrical, semiloose, 30 cm. long. Glumes less than $\frac{1}{2}$ of seed, straw color, awned. Seeds broadly obovate, white.

329250 to 330302—Continued

329253 to 330270—Continued

330170. Col. No. P-37. Heads ovate elliptical, compact, 15 cm. long. Glumes less than $\frac{1}{2}$ of seed, mahogany, awned. Seeds medium small, pearly lemon. Seed of good quality.
330171. Col. No. P-38. Heads semi-open, lanceolate, 30 cm. long. Glumes less than $\frac{1}{2}$ of seed, straw color, awns obscure. Seeds medium large, broadly ovate, lemon tan.
330172. Col. No. P-39. Heads lanceolate, semi-open, 18 cm. long. Glumes $\frac{1}{2}$ of seed, black tan. Seeds chalky white with a brown subcoat.
330173. Col. No. P-40. Heads ovate, compact, seeds clustered, 13 cm. long. Glumes less than $\frac{1}{3}$ of seeds, mahogany, awned. Seeds small, pearly yellow. Seed good quality.
330174. Col. No. P-41. Heads semi-open, 30 cm. long. Glumes $\frac{1}{3}$ of seed, brown, transversely creased. Seeds medium, broadly ovate, orange brown.
330175. Col. No. P-42. Heads semi-open, 30 cm. long. Glumes $\frac{1}{3}$ of seed, straw color, awned. Seeds large, broadly ovate, brown tan, pearly. A good quality seed.
330176. Col. No. P-43. Heads ovate, compact, seeds clustered, flattened apex, 18 cm. long. Glumes $\frac{1}{3}$ of seed, mahogany, awned. Seeds medium small, orange brown.
330177. Col. No. P-45. Heads semi-open, 41 cm. long. Glumes $\frac{1}{3}$ of seed, straw color, awned. Seeds large, broadly ovate, pearly lemon. Seeds high quality.
330178. Col. No. P-46. Heads broadly ovate, 15 cm. long. Glumes $\frac{1}{3}$ of seed, straw color, awned. Seeds medium, pearly yellow. Seed high quality.
330179. Col. No. P-47. Heads semi-open, 30 cm. long. Glumes over $\frac{1}{2}$ of seed, white, transversely creased, awned. Seed medium, white.
330180. Col. No. P-49. Heads ovate, semicompact, 13 cm. long. Glumes less than $\frac{1}{2}$ of seed, straw color, awned. Seeds broadly ovate, large, pearly yellow.
330181. Col. No. P-51. Five km. south of Kobbo, Wollo Province. Elevation 1,500 m. Heads semi-open, 30 cm. long. Glumes $\frac{1}{2}$ of seed, straw color, transversely creased, awned. Seeds medium, pearly white.
330182. Col. No. P-54. Market in Kobbo, Wollo Province. Seeds a mixture of white, yellow and brown.
330183. Col. No. P-55. Market in Kobbo, Wollo Province. Seeds a mixture of pearly white and pearly brown.
- Alamata, Wollo Province.
330184. Col. No. P-56. Elevation 1,500 m. Heads open, 51 cm. long. Glumes cover the seed, purplish pigment, long awned. Seeds small, brown, teardrop shape. An interesting *subglobescens* type.
330185. Col. No. P-57. Elevation 1,500 m. Heads ovate, compact, 15 cm. long. Glumes less than $\frac{1}{2}$ of seed, mahogany, awns obscure. Seeds medium small, broadly ovate, pearly yellow.
330186. Col. No. P-58. Elevation 1,500 m. Heads open, 51 cm. long. Glumes cover the seed, purplish pigment, long awned. Seeds small, brown, teardrop shape. An interesting *subglobescens* type.
330187. Col. No. P-59. Elevation 1,500 m. Heads broadly ovate, to 15 cm. long, seeds clustered. Glumes $\frac{1}{3}$ of seed, light tan, awned. Seeds pearly white. High quality seeds.

329250 to 330302—Continued

329253 to 330270—Continued

330188. Col. No. P-60. Elevation 1,500 m. Heads ovate elongate, 15 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany, awns obscure. Seeds medium small, brown tan.
330189. Col. No. P-61. Elevation 2,200 m. Heads semi-open, 36 cm. long. Glumes $\frac{1}{2}$ to $\frac{1}{2}$ of seed, mahogany, awned. Seeds small, ovate, pearly dark red.
330190. Col. No. P-62. Elevation 2,700 m. Planted at this high elevation in April. Heads variable from open to semicompact, 25 cm. long. Glumes mahogany to brown. Seeds red to brown.
330191. Col. No. P-64. Ten km. north of Maichew, Tigre Province. Elevation 2,500 m. Heads variable from open to semicompact, 25 cm. long. Glumes mahogany to brown. Seeds red to brown.
330192. Col. No. P-66. Five km. east of Makale, Tigre Province. Heads open, 15 cm. long. Glumes deep mahogany, more than $\frac{1}{2}$ of seed, awned. Seeds deep red, small.

North of Sinkata, Tigre Province.

330193. Col. No. P-68. Elevation 2,600 m. Heads variable from open to semicompact, 25 cm. long. Glumes mahogany to brown. Seeds red to brown.
330194. Col. No. P-69. Elevation 2,500 m. Heads variable from open to semicompact, 25 cm. long. Glumes cover the seed, mahogany to brown. Seeds red to brown.
330195. Col. No. P-70. Heads variable from open to semicompact, 25 cm. long. Glumes mahogany to brown. Seeds red to brown.
330196. Col. No. P-71. Wokro Agula, Tigre Province. Elevation 2,200 m. Heads semi-open, 20 cm. long. Glumes cover the seed, straw color, transversely creased, awn long. Seed pearly tan.
330197. Col. No. P-72. Twenty km. north of Aguiro Aguila, Tigre Province. Elevation 2,000 m. Heads open, 25 cm. long. Glumes cover the seed, transversely creased, straw color, awns obscure. Seeds small, brown.
330198. Col. No. P-73. Twenty km. north of Aguiro Aquila, Tigre Province. Elevation 2,000 m. Heads loose, open, 30 cm. long. Glumes $\frac{1}{2}$ of seed, reddish mahogany, transversely creased. Seeds medium small, reddish brown.
330199. Col. No. P-76. Adigrat, Tigre Province. Elevation 2,500 m. Plants with 7 nodes. Heads open, 41 cm. long. Glumes cover the seed, reddish mahogany, awned with prominent staminate florets. Seeds small, deep red. *Subglobescens* type.

Decamere, Eritrea Province. Elevation 2,100 m.

330200. Col. No. P-82. Plants 1.8 m. tall. Heads semi-open, 30 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany, pubescent awned. Seeds brown, medium.
330201. Col. No. P-83. Plants 1.2 m. tall. Heads open, to 30 cm. long. Glumes tan, $\frac{2}{3}$ of seed, awned. Seeds small, brown.
330202. Col. No. P-84. Plants 2.7 m. tall. Heads open, 25 cm. long. Glumes $\frac{1}{2}$ of seed, purple tan, awned. Seeds broadly ovate, pearly tan lemon.
330203. Col. No. P-85. Plants 1.2 m. tall with 11 nodes. Heads open, 23 cm. long. Glumes cover the seed, mahogany, awned. Seeds dark red.

329250 to 330302—Continued

329253 to 330270—Continued

330204. Col. No. P-86. Plants 2.4 m. tall. Heads open, 25 cm. long. Glumes cover the seed, mahogany, awned. Seeds medium small, brown red.

330205. Col. No. P-87. Plants 2.4 m. tall, 11 nodes. Glumes cover the seed, black, shining, awned. Seeds brown (black amber). Introduced 5 years previously.

330206. Col. No. P-88. Plants 1.8 m. tall. Heads semicompact. Glumes $\frac{1}{2}$ of seed, straw color, awned. Seeds medium small, pearly tan lemon.

Four km. north of Decamere, Eritrea Province. Elevation 2,200 m.

330207. Col. No. P-89. Plants 2.4 m. tall. Heads semi-open, 36 cm. long. Glumes $\frac{1}{2}$ of seed, tan, awned. Seeds medium, pearly tan.

330208. Col. No. P-90. Heads open. Glumes $\frac{1}{2}$ of seed, mahogany, awned. Seeds brown red.

330209. Col. No. P-91. Plants 2.4 m. tall. Heads semicompact, 30 cm. long. Glumes $\frac{1}{2}$ of seed, tan, awned. Seeds medium large, pearly tan.

330210. Col. No. P-92. Thirty km. south of Asmara, Eritrea Province. Heads open, 20 cm. long. Glumes cover the seed, purple mahogany, awned. Seeds small, brown.

330211. Col. No. P-96. Decamere, Eritrea Province. Elevation 2,100 m. Heads open, 25 cm. long. Glumes cover the seed, tan, awned. Seeds brown.

West of Asmara, Eritrea Province.

330212. Col. No. P-104. Heads cylindrical, semicompact, 15 cm. long. Glumes medium, awned. Seeds brown.

330213. Col. No. P-105. Heads cylindrical, hegari type, 15 cm. long. Glumes mahogany. Seeds medium large, tan.

330214. Col. No. P-106. Heads cylindrical, semicompact, 20 cm. long. Glumes medium, $\frac{1}{2}$ to $\frac{1}{3}$ of seed. Seeds medium small, orange.

330215. Col. No. P-107. Heads cylindrical, semicompact, 18 cm. long. Glumes $\frac{1}{2}$ of seed, awned. Seeds chocolate brown.

330216. Col. No. P-108. Heads cylindrical, strick, 20 cm. long. Glumes medium, $\frac{1}{2}$ of seed, awned, small. Seeds tan.

330217. Col. No. P-109. Plants with 10 nodes. Heads cylindrical, to 20 cm. long. Glumes mahogany, $\frac{1}{2}$ of seed, awned. Seeds tan.

330218. Col. No. P-110. Heads obovate, semicompact, 10 cm. long. Glumes dark mahogany, awned. Seeds light brown.

330219. Col. No. P-111. Heads cylindrical, 20 cm. long. Seeds clustered. Glumes mahogany, awned. Seeds medium small, white.

330220. Col. No. P-119. Heads cylindrical, tapered apex. Glumes $\frac{1}{2}$ of seed, mahogany, awns small. Seeds medium small, orange.

330221. Col. No. P-120. Heads cylindrical, semicompact, 25 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany, awns small. Seeds medium small, tan.

330222. Col. No. P-121. Heads ovate, 10 cm. long. Glumes $\frac{1}{3}$ of seed, straw color, awned. Seeds small, white.

330223. Col. No. P-122. Heads cylindrical, semicompact, 25 cm. long. Glumes $\frac{1}{2}$ of seed, awned. Seeds pinkish brown.

330224. Col. No. P-123. Heads cylindrical, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seed, awns small. Seeds medium small, orange color.

329250 to 330302—Continued

329253 to 330270—Continued

330225. Col. No. P-124. Heads cylindrical, semicompact, to 20 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany, awned. Seeds medium small, light tan.
330226. Col. No. P-125. Heads ovate to elongate, 13 cm. long. Glumes light mahogany, awned. Seeds light tan.
330227. Col. No. P-126. Heads cylindrical, 30 cm. long. Glumes $\frac{1}{2}$ of seed, light mahogany, awned. Seeds medium small, orange.
330228. Col. No. P-127. Heads cylindrical, semicompact, 10 cm. long. Glumes $\frac{1}{3}$ of seed, black. Seeds medium small, tan.
330229. Col. No. P-128. Heads ovate, tapered apex, 10 cm. long. Glumes $\frac{1}{3}$ of seed, mahogany. Seeds medium small, orange.
330230. Col. No. P-129. Heads conical, compact, 13 cm. long. Glumes brown, awns small. Seeds small, white. Durra crookneck type.
330231. Col. No. P-130. Heads cylindrical, 15 cm. long. Seeds clustered. Glumes tan brown, awned. Seeds medium small, tan.
330232. Col. No. P-131. Heads ovate, 13 cm. long. Glumes $\frac{1}{3}$ of seed, straw color, awned. Seeds medium small, white.
330233. Col. No. P-132. Heads cylindrical, compact, 30 cm. long. Glumes $\frac{1}{2}$ of seed, awns small. Seeds pearly tan.
330234. Col. No. P-133. Heads ovate to cylindrical, 15 cm. long, compact, seeds clustered. Glumes brown, awned. Seeds pearly white.
330235. Col. No. P-134. Heads conical, compact, 13 cm. long. Glumes brown, awned. Seeds tan to pearly white to white.
330236. Col. No. P-135. Heads conical, 8 cm. long. Glumes dark purple, awned. Seeds small, pearly white.
330237. Col. No. P-136. Heads ovate, compact, 15 cm. long, seeds clustered. Glumes, brown, awns small. Seeds small to medium small, orange.
330238. Col. No. P-137. Heads ovate to elongate, 15 cm. long. Glumes tan, awned. Seeds small, orange color.
330239. Col. No. P-139. Heads cylindrical, semicompact, seeds clustered. Glumes straw brown, awned. Seeds medium small, orange.
330240. Col. No. P-140. Heads obovate, compact, 10 cm. long. Glumes straw color, awned. Seeds white tan.
330241. Col. No. P-146. Heads ovate, 13 cm. long. Glumes straw color, awned. Seeds small, red.
330242. Col. No. P-147. Heads cylindrical, semicompact, 24 cm. long. Glumes less than $\frac{1}{2}$ of seed, brown. Seeds medium large, white with an orange tinge.
330243. Col. No. P-148. Heads cylindrical, semicompact, 25 cm. long. Glumes $\frac{1}{2}$ of seed, mahogany. Seed medium small, tan.
330244. Col. No. P-149. Heads cylindrical, semicompact, 20 cm. long. Glumes $\frac{1}{2}$ of seed, brown. Seeds medium large, pearly brown.
330245. Col. No. P-150. Heads ovate-lanceolate, 13 cm. long. Glumes $\frac{1}{2}$ of seed, black, awned. Seeds medium large, tan.
330246. Col. No. P-151. Heads conical, 8 cm. long. Glumes of seed, brown. Seeds medium large, reddish brown.
330247. Col. No. P-152. Heads conical, 8 cm. long. Glumes less than $\frac{1}{3}$ of seed, brown, awned. Seeds medium large, pearly tan.

329250 to 330302—Continued

329253 to 330270—Continued

330248. Col. No. P-155. Heads broadly ovate, 13 cm. long. Glumes $\frac{1}{3}$ of seed, straw color. Seeds medium small, pearly white.
330249. Col. No. P-157. Heads cylindrical. Glumes straw color to brown. Seeds white, hegari type.
330250. Col. No. P-158. Heads conical, 10 cm. long. Glumes $\frac{1}{3}$ of seed, straw color. Seeds small, calico.
330251. Col. No. P-159. Heads cylindrical, semiloose, 15 cm. long. Glumes $\frac{1}{2}$ of seed, tan. Seeds medium large, white.
330252. Col. No. P-160. Heads broadly ovate, 13 cm. long. Glumes $\frac{1}{3}$ of seed, reddish brown, awned. Seeds small, reddish brown.
330253. Col. No. P-163. Heads conical. Glumes $\frac{2}{3}$ of seed, brown, awned. Seeds small, pearly brown.
330254. Col. No. P-164. Heads ovate, small. Glumes $\frac{1}{2}$ of seed, straw color. Seeds small, brown.
330255. Col. No. P-165. Plants 0.9 m. tall. Heads semicompact. Glumes $\frac{2}{3}$ of seed, light straw color. Seeds reddish brown.
330256. Col. No. P-166. Heads open. Glumes long, straw color with brown apex, awned, Seeds brown.
330257. Col. No. P-167. Heads semicompact, 15 cm. long. Glumes $\frac{1}{2}$ of seed, black. Seeds small, tan.
330258. Col. No. P-168. Heads open, 15 cm. long. Glumes $\frac{2}{3}$ of seed, light brown, awned. Seeds reddish brown.
330259. Col. No. P-169. Heads ovate, 15 cm. long. Glumes $\frac{2}{3}$ of seed, dark brown, awned. Seeds pearly brown.
330260. Col. No. P-170. Heads open, 20 cm. long. Glumes $\frac{2}{3}$ of seed, black, awned. Seeds medium large, brown.
330261. Col. No. P-171. Heads broadly conical, 13 cm. long. Glumes $\frac{1}{3}$ of seed, brown. Seeds medium small, pearly white.
330262. Col. No. P-172. Heads loose, 20 cm. long. Glumes $\frac{1}{3}$ of seed, black. Seeds chalky white with brown subcoat.
330263. Col. No. P-174. Heads broadly ovate, compact, 15 cm. long. Glumes $\frac{1}{2}$ of seeds, black, awned. Seeds small, pearly orange.
330264. Col. No. P-175. Heads ovate. Glumes black, $\frac{1}{3}$ of seed, awned. Seeds small, pearly orange.
330265. Col. No. P-176. Heads conical, compact, 13 cm. long. Glumes $\frac{1}{2}$ of seed, reddish brown, awned. Seeds medium large, pearly reddish tan.
330266. Col. No. P-177. Heads ovate, small. Glumes $\frac{1}{2}$ of seed, black. Seeds medium large, pearly white.
330267. Col. No. P-178. Heads semicompact. Glumes $\frac{1}{2}$ of seed, black. Seeds chalky white with a dark subcoat.
330268. Col. No. P-179. Heads conical, 13 cm. long. Glumes less than $\frac{1}{2}$ of seed, reddish brown. Seeds medium large, pearly orange.
330269. Col. No. P-181. Heads obovate, 13 cm. long. Glumes nearly cover the seed, dark brown, awned. Seeds pearly brown.
330270. Col. No. P-183. Heads ovate. Glumes $\frac{1}{2}$ of seed reddish brown, awned. Seeds small, reddish tan.
- 330271 to 330274. SORGHUM SUDANENSE (Piper) Stapf Gramineae.
Sudangrass.

329250 to 330302—Continued**330271 to 330274—Continued**

330271. Col. No. 138-B. Robi, Shoa Province. Elevation 1,500 m. Glumes sienna; awns long.

330272. Col. No. R-244. One hundred seventy five km. south of Axum, Tigre Province. Elevation 1,500 m. Head open; glumes cover seed, straw to chocolate color, awned.

One hundred sixty km. south of Bakar Dar, Gojjam Province. Elevation 2,000 m.

330273. Col. No. R-297. Head open; glumes shiny chocolate, awned; seed small.

330274. Col. No. R-298. Head open; glumes straw and sienna color.

330275. SORGHUM sp. Gramineae.

Col. No. P-78. Between Adi Caieh and Digsä, Eritrea Province. Elevation 2,250 m. Head open, to 30 cm. long; glumes cover seed, mahogany tan, awned; seed variable.

330276. SORGHUM sp.

Col. No. 15-B. Awash Valley, 90 km. east of Nazareth, Shoa Province. Elevation 1,100 m. Plant purple; glumes chocolate; seeds shatter.

330277. SORGHUM sp.

Col. No. 16-B. Awash Valley, 90 km. east of Nazareth, Shoa Province. Elevation 1,100 m. Plant purple; glumes mahogany; seeds shatter.

330278. SORGHUM sp.

Col. No. 712-B. Awash Valley, 90 km. east of Nazareth, Shoa Province. Elevation 1,100 m. Along Dedessa River on road from Jimma to Bedele, Kaffa Province. Elevation 1,300 m. Leaf narrow.

330279. SORGHUM sp.

Col. No. 770-B. Awash Valley, 90 km. east of Nazareth, Shoa Province. Elevation 1,100 m. Near Argo River, 37 km. west of Nekempt, Wollega Province.

330280. SORGHUM sp.

Col. No. R-101. Tessenei, Baratolo Farms, Eritrea Province. Societe Imprese Africane. Elevation 600 m. Local name Adar. Head small, light; glumes long, mahogany; awns long, prominent.

330281. SORGHUM sp.

Col. No. R-107. Tessenei, Baratolo Farms, Eritrea Province. Societe Imprese Africane. Elevation 600 m. Local name Adar. Head small, semicompact, cylindrical to lanceolate; glumes long, purple, tomentose, persistent; awns medium; seed medium, brown. Shatters.

330282. SORGHUM sp.

Col. No. R-108. Tessenei, Baratolo Farms, Eritrea Province. Societe Imprese Africane. Elevation 600 m. Local name Adar. Head medium small, semicompact, cylindrical; glumes long, purple, tomentose, persistent; awns inconspicuous; seed medium small, brown.

330283. SORGHUM sp.

Col. No. R-110. Tessenei, Baratolo Farms, Eritrea Province. Societe Imprese Africane. Elevation 600 m. Local name Adar. Head medium, open; glumes long, brown, ovate, purple, persistent; awns medium long; seed medium large, brown. Shatters.

329250 to 330302—Continued

330284. SORGHUM sp.

Col. No. R-114. Tessenei, Baratolo Farms, Eritrea Province. Societe Imprese Africane. Elevation 600 m. Local name Adar. Head small, semicompact, cylindrical to lanceolate; glumes long, mahogany, semitomentose, persistent; seed medium small. Shatters.

330285. SORGHUM sp.

Col. No. R-124. Tessenei, Baratolo Farms, Eritrea Province. Societe Imprese Africane. Elevation 600 m. Local name Adar. Head large, semicompact, ovate; glumes long, mahogany, tomentose, persistent; seed medium, brown. Shatters.

330286. SORGHUM sp.

Col. No. R-125. Tessenei, Baratolo Farms, Eritrea Province. Societe Imprese Africane. Elevation 600 m. Local name Adar. Head medium, semicompact, cylindrical to lanceolate; glumes long, mahogany and tan, persistent; seed medium.

330287. SORGHUM sp.

Col. No. R-132. Tessenei, Baratolo Farms, Eritrea Province. Societe Imprese Africane. Elevation 600 m. Local name Adar. Head medium, semi-open; glumes long, purple, tomentose, persistent. Shatters.

330288. SORGHUM sp.

Col. No. R-135. Tessenei, Baratolo Farms, Eritrea Province. Societe Imprese Africane. Elevation 600 m. Local name Adar. Head medium large, semicompact to semi-open, cylindrical to lanceolate; glumes medium large, mahogany; awns short; seed medium large, brown. Shatters.

330289. SORGHUM sp.

Col. No. R-179. Al Khadra, Homara Region. Elevation 600 to 1,000 m. Local name Adar. Glumes dark purple, tomentose.

330290. SORGHUM sp.

Col. No. R-180. Al Khadra, Homara Region. Elevation 600 to 1,000 m. Local name Adar. Glumes sienna, tomentose, feathery base.

330291. SORGHUM sp.

Col. No. R-189. Al Khadra, Homara Region. Elevation 600 to 1,000 m. Local name Adar. Head and glumes purple, tomentose.

330292. SORGHUM sp.

Col. No. R-195. Al Khadra, Homara Region. Elevation 600 to 1,000 m. Local name Adar. Glumes purple, tomentose. Shatters.

330293. SORGHUM sp.

Col. No. R-197. Al Khadra, Homara Region. Elevation 600 to 1,000 m. Local name Adar. Glumes long, purple, persistent. Shatters.

330294. SORGHUM sp.

Col. No. R-199. Al Khadra, Homara Region. Elevation 600 to 1,000 m. Local name Adar. Glumes sienna, persistent.

330295. SORGHUM sp.

Col. No. R-200. Al Khadra, Homara Region. Elevation 600 to 1,000 m. Local name Adar. Glumes chocolate, tomentose, persistent.

330296. SORGHUM sp.

Col. No. R-206. Al Khadra, Homara Region. Elevation 600 to 1,000 m. Local name Adar. Glumes sienna, awns long. Shatters.

329250 to 330302—Continued**330297. SORGHUM sp.**

Col. No. R-207. Al Khadra, Homara Region. Elevation 600 to 1,000 m.
Local name Adar. Glumes chocolate, tomentose.

330298. SORGHUM sp.

Col. No. R-208. Al Khadra, Homara Region. Elevation 600 to 1,000 m.
Local name Adar. Glumes purple, tomentose. Shatters.

330299. SORGHUM sp.

Col. No. R-209. Al Khadra, Homara Region. Elevation 600 to 1,000 m.
Local name Adar. Glumes sienna, tomentose.

330300. SORGHUM sp.

Col. No. R-210. Al Khadra, Homara Region. Elevation 600 to 1,000 m.
Local name Adar. Head semi-open to semicompact, lanceolate; glumes long, purple, tomentose; seed medium.

330301. SORGHUM sp.

Col. No. R-211. Al Khadra, Homara Region. Elevation 600 to 1,000 m.
Local name Adar. Glumes sienna, tomentose.

330302. SORGHUM sp.

Col. No. R-212. Al Khadra, Homara Region. Elevation 600 to 1,000 m.
Local name Adar. Glumes tan.

330303 to 330327. HORDEUM VULGARE L. Gramineae.

From Colombia. Seeds presented by Rockefeller Foundation, Bogota. Numbered May 13, 1968.

330303. 'Funza'. (T.67-A).	330316. II-11029-8b-2t-2b.
330304. V-808-6n-1n-1n.	330317. II-11364-3t.
330305. III-876-2b-3t-1t-1t.	330318. II-11364-1b-4t.
330306. II-11585-2b-1t-1b.	330319. II-11571-2b-3t.
330307. II-11364-1b-5t-2b.	330320. II-11585-2b-3t-2t.
330308. II-11564-4t.	330321. II-11585-2b-1t-3t.
330309. II-11585-2b-3t-3b.	330322. II-10265-3b-1t-5t.
330310. II-11018-4t-1b-2t-4b.	330323. II-11678-12t.
330311. II-11585-2b-3t-1t.	330324. II-11364-1b-3t-6b.
330312. II-11267-2b-3t-1b.	330325. II-11361-1t-2t.
330313. II-12062-1t.	330326. II-11986-2b-3t-3b.
330314. II-11585-1t-2t.	330327. III-2646-1b-1t-2t.
330315. II-11364-1b-5t-3b.	

330328 to 330343. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From the United States. Seeds presented by John W. Clark, Elkton, Md. Numbered May 14, 1968.

330328. 'Bonita Ojo'. Origin Sweden.

330329. 'Cotaxtla 1'. Origin Mexico. Fruit round, uniform, deep red. Resistant to leaf mold, sun and wind damage. Maturity 130 to 150 days.

330330. 'Culiacan 1'. Origin Mexico. Indeterminate. Resistant to fusarium, wind, excessive rain. Fruit round, flattened, smooth. Scar small.

330328 to 330343—Continued

330331. 'Dansk Export'. Origin Sweden.
 330332. 'Dwarf Gem'. Origin England.
 330333. 'Grosse Fleisch'. Origin Germany.
 330334. 'Hundredfold'. Origin England.
 330335. 'Julia HG'. Origin Sweden.
 330336. 'Kurihara'. Origin Japan.
 330337. 'Lutescent Tomato'. Origin unknown. Color changes in both fruit and leaves throughout season.
 330338. 'Melville Castle'. Origin England.
 330339. 'Pink San Marzano'. Origin unknown.
 330340. 'Potentat 11'. Origin Sweden. Greenhouse forcing.
 330341. 'Professor Rudloff'. Origin Germany.
 330342. 'Queensland 2' or 'Q 2'. Origin Australia.
 330343. 'Tatinter Dwarf'. Origin Australia.

330344 to 330353. PHASEOLUS LATHYROIDES L. Leguminosae.

From Australia. Seeds presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra. Numbered May 14, 1968.

330344. CQ 520. Queensland.
 330345. C.P.I. 12368. British Guiana.
 330346. C.P.I. 24263. Senegal.
 330347. C.P.I. 26309. British Guiana.
 330348. C.P.I. 26667. Mexico.
 330349. C.P.I. 27766. Brazil.
 330350. C.P.I. 29653. Philippines.
 330351. C.P.I. 30227. India.
 330352. C.P.I. 30229. India.
 330353. C.P.I. 30257. Hawaii.

330354 and 330355.

From France. Plants presented by J. Marnier Lapostolle, St. Jean Cap Ferrat. Received May 13, 1968.

330354. DELARBREA LONGICARPA R. Viguieri Araliaceae.
 Originally grown from seed collected in New Caledonia.
 330355. DIZYGOTHECA LECARDII R. Viguieri Araliaceae.
 Originally grown from seed collected in New Caledonia.

**330356. PENNISETUM CLANDESTINUM Hochst. ex Chiovenda
Gramineae. Kikuyu grass.**

From Argentina. Stolons collected by W. R. Langford, agricultural explorer, Crops Research Division, Beltsville, Md. Received May 13, 1968.

Col. No. 76. From lawn of Sr. Parodi, Instituto Nacional de Tecnologia Agropecuaria Experiment Station, Manfredi. Rhizomatous, forms dense sod suitable for lawns and playgrounds if mowed closely.

330357 and 330358.

From England. Seeds presented by The Royal Horticultural Society's Garden, Wisley, Ripley, Surrey. Numbered May 14, 1968.

330357 and 330358—Continued

330357. *KALMIA LATIFOLIA* L. Ericaceae. Mountain-laurel.

330358. *KALMIA LATIFOLIA* f. *MYRTIFOLIA* (Jager) K. Koch

330359 and 330360.

From Israel. Seeds presented by The Hebrew University of Jerusalem, The Botanical Garden, Jerusalem. Numbered May 14, 1968.

330359. *CYCLAMEN PERSICUM* Mill. Primulaceae. Persian cyclamen.

330360. *PLATANUS ORIENTALIS* L. Platanaceae. Oriental plane tree.

330361. *TRIFOLIUM UNIFLORUM* L. Leguminosae.

From Turkey. Seeds presented by J. Katznelson, Neve Ya'ar Experiment Station, The Volcani Institute of Agricultural Research, Haifa, Israel. Numbered May 14, 1968.

NYT. 1360. Collected between Cesme and Erythrija. Elevation 10 m.

330362. *SOLANUM ELAEAGNIFOLIUM* Cav. Solanaceae.

From Chile. Seeds presented by Herbert H. Appel, Universidad Tecnica Federico Santa Maria, Valparaiso. Numbered May 14, 1968.

330363 to 330370.

From Japan. Seeds collected by F. L. Doleshy, Seattle, Washington. Numbered May 14, 1968.

330363. *RHODODENDRON BRACHYCARPUM* D. Don ex G. Don Ericaceae.
Fujiyama rhododendron.

Col. No. 28. Yokodake, in Yatsugatake Range, Nagano Prefecture. Elevation 2,300 m. Dwarf, not hairy.

330364. *RHODODENDRON JAPONICUM* (Gray) Schneid. Ericaceae.
Japanese azalea.

Col. No. 27. Slopes of Mt. Nyugasa, south of Lake Suwa, Nagano Prefecture. Elevation 1,850 m. Plants typical.

330365. *RHODODENDRON JAPONICUM* cv. *GLAUCOPHYLLUM* Hara Ericaceae.

Col. No. 26. Slopes of Mt. Nyugasa, south of Lake Suwa, Nagano Prefecture. Elevation 1,850 m. Common variant with white leaf undersurface.

330366. *RHODODENDRON KIUSIANUM* Makino Ericaceae.

Col. No. 37. Mt. Tsurumi, above Beppu, Oita Prefecture. Elevation 1,360 m.

330367 and 330368. *RHODODENDRON METTERNICHII* Sieb. & Zucc. Ericaceae.
Leatherleaf rhododendron.

330367. Col. No. 35. Shakutake mountain, on boundary between Oita and Fukuoka Prefectures. Elevation 1,210 m. Stem densely hairy; leaves domed and recurved; few upper surface hairs. Flowers reported deeper color than those of other areas.

330368. Col. No. 41. Vicinity of Shiromizu-taki, Mt. Ichibusa area, Kumamoto Prefecture. Elevation 950 m. Leaves similar to P.I. 330367 but more distinctly broad toward tip, and more domed. Leaves often retained 4 years. Capsules largest seen, often in trusses of 10. Appears genetically uniform.

330369. *RHODODENDRON METTERNICHII* var. *KYOMARUENSE* Yamaz. Ericaceae.

Col. No. 22. North side of Jokoji Mountain, in Tenryu drainage, Shizuoka Prefecture. Elevation 900 m. Very erect, open in 70 percent shade, denser in sunny spots. Free flowering, often 11 to 12 flowers per truss.

330362 to 330370—Continued

330370. RHODODENDRON sp. Ericaceae.

Col. No. 32. Fukue-shima, Goto Archipelago, Nagasaki Prefecture. Elevation 140 m. Appears to tolerate heat and lacks hardiness.

330371 to 330382.

From Australia. Seeds presented by Robert Boden, Parks and Gardens Section, Canberra, A.C.T., through A. A. Brown, Alexandria, Va. Numbered May 14, 1968.

330371. ACACIA BUXIFOLIA A. Cun. Leguminosae.

330372. ACACIA DAWSONI R. T. Baker

330373. ACACIA DECORA Reichenb.

330374. ACACIA DIFFUSA Lindl.

330375. CALLISTEMON CITRINUS (Custis) Skeels Mystaceae.

Lemon bottlebrush.

330376. CALLISTEMON PALLIDUS (Bonpl.) D.C.

Bottlebrush.

330377. CALLISTEMON SIEBERI SC.

330378. DIANELLA TASMANICA Hook. f. Liliaceae.

330379. LEPTOSPERUM LAEVIGATUM F. Muell. Myrtaceae.

330380. LEPTOSPERUM SCOPARIUM Forst.

Nanuka.

330381. MELALEUCA ERICIFOLIA J. E. Smith

Heath Melalescca.

330382. MELALEUCA INCANA R. Br.

330383 to 330385. PISUM SATIVUM L. Leguminosae. Pea.

From the Netherlands. Seeds presented by B. Kies, Institute for Horticultural Plant Breeding, Wageningen. Numbered May 15, 1968.

330383. 'Flavanda'. Seed yellow.

330384. 'Porta'. Seed yellow.

330385. 'Reuzen Mei'. Seed yellow.

330386. GOSSYPIUM sp. Malvaceae.

From Senegal. Seeds collected by J. R. Harlan, University of Illinois, Urbana, Illinois. Numbered May 15, 1968.

Weedy plant used as ornamental near waterfront in Dakar. Possibly diploid.

330387 to 330396. BRASSICA OLERACEA var. CAPITATA L. Cruciferae. Cabbage.

From Norway. Seeds presented by Gunnar Weisaeth, Department of Vegetable Crops, Agricultural College of Norway, Vollebakk. Numbered May 15, 1968.

Resistant to clubroot disease.

330387. K 499 - 2001. Winter cabbage.

330392. K 716 - 2026.

330388. K 504 - 1691.

330393. K 732 - 2014.

330389. K 512 - 1876 (=1618).

330394. K 737 - 1841.

330390. K 512 - 2004 'Resista'.

330395. K 873 - 2018.

330391. K 707 - 1631.

330396. 'Jotunka'-

04618.

330397 to 330406.

From Czechoslovakia. Seeds presented by Pavel Amler, Plant Breeding Station, Uhretice, okres Chrudim. Numbered May 14, 1968.

330397 to 330401. *HORDEUM DISTICHON* L. Gramineae. Two-rowed barley.

Spring type.

330397. 'Diamant'. × radiation from Valticky.

330398. 'Dvoran'. Hodoninsky Kvas × Slovensky Jenny.

330399. 'Jantar'. Valticky × Haisa II.

330400. 'Merkur'. Weiheostephaner Mr. II × Kenia.

330401. 'Valticky'. Valticky B × Starnovsky Kneifl.

330402. *HORDEUM VULGARE* L. Gramineae.

Winter type.

'Stupicky Sestirady'.

330403 to 330406. *TRITICUM AESTIVUM* L. Gramineae. Common wheat.

Spring type.

330403. 'Zlatka'. (Janetzki × Marquis) × Heines Koga.

Winter type.

330404. 'Diana'. /Carsten V × Hodoninska osinatka / Heines Koga.

330405. 'Kasticka osinatka'. Griewener 192 / Hodoninska universalni × Vankuti / × Hodoninska holice × Manitoba/Kubanka × Bucharska.

330406. 'Lada'. Hodoninska holice × Griewener 192.

330407 to 330446. *SECALE CEREALE* L. Gramineae. **Rye.**

From the Republic of South Africa. Seeds presented by Plant Introduction Officer, Department of Agricultural Technical Services, Pretoria. Numbered May 15, 1968.

330407. DL 67/169.

330408. DL 67/170.

330409. DL 67/172.

330410. DL 67/175.

330411. DL 67/176.

330412. DL 67/183.

330413. DL 67/184.

330414. DL 67/185.

330415. DL 67/187.

330416. DL 67/188.

330417. DL 67/190.

330418. DL 67/194.

330419. M/66/364. Tetraploid spring rye.

330420. M/66/367. 'Maroc 54'.

330421. M/66/572. 'R 500'.

330422. M/67/4. 'Tetra'.

330423. M/67/100. 'Carstens Roggen'.

330424. M/67/116. 'Karlshulder Sommerroggen'.

330425. M/67/117. 'Karlshulder Winterroggen'.

330407 to 330446—Continued

330426. M/67/122. 'Heertvelder'.
 330427. M/67/133. 'Petkuser Tetraroggen'.
 330428. M/67/134. 'Petkuser Winterroggen'.
 330429. M/67/135. 'Petkuser Somerroggen'.
 330430. M/67/157. 'Carstens Kortstra'.
 330431. M/67/158. 'Ludowe'.
 330432. M/67/160. 'Petka'.
 330433. M/67/163. 'Estxo'.
 330434. M/67/165. 'Burnburger Futterroggen'.
 330435. M/67/167. 'Danae'.
 330436. M/67/169. 'D. Troubsko'.
 330437. M/67/170. 'Ratborske'.
 330438. M/67/171. 'Kribice Krajove'.
 330439. M/67/172. 'Kungsrag II'.
 330440. M/67/173. 'Pulawskie Wczeswe'.
 330441. M/67/174. 'Varnerag'.
 330442. M/67/175. 'Tacinskaja Golubaja'.
 330443. M/67/177. 'Mikulickie Wczesne'.
 330444. M/67/178. 'Ceske'.
 330445. M/67/179. 'Dominant'.
 330446. M/67/304. 'Kecslemetl.h. rozsz'.

330447 to 330461. TRITICUM AESTIVUM L. Gramineae.**Common wheat.**

From Rhodesia. Seeds presented by I. B. Edwards, Salisbury Research Station, Causeway, Salisbury. Numbered May 15, 1968.

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|----------------------|---------------------|
| 330447. S 812 A1 A3. | 330455. 'Mtilikwe'. |
| 330448. S 878 A4 A2. | 330456. 'Odzi'. |
| 330449. S 891 A5. | 330457. 'Tokwe'. |
| 330450. 'Bembezaan'. | 330458. 'Umniami'. |
| 330451. 'Gwelo'. | 330459. 'Umsweswe'. |
| 330452. 'Karo'. | 330460. 'Umtali'. |
| 330453. 'Madziwe'. | 330461. 'Zambesi'. |
| 330454. 'Mkwesine'. | |

330462 to 330468. ORYZA SATIVA L. Gramineae.**Rice.**

From Japan. Seeds presented by the Faculty of Agriculture, University of Tokyo, Bunkyo, Tokyo. Received May 15, 1968.

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| 330462. 'Fujimineri'. Japan. | 330466. 'Manryo'. Japan. |
| 330463. 'Honenwase'. Japan. | 330467. 'Sasanishiki'. |
| 330464. 'Koshihikari'. Japan. | 330468. 'Yamabiko'. |
| 330465. 'Hoyoku'. Japan. | |

330469 to 330471. ORYZA SATIVA L. Gramineae.**Rice.**

From Italy. Seeds presented by Institute di All Allevamento Vegetale, Bologna. Received May 15, 1968.

330469. 'Raffaello'.

330469 to 330471—Continued

330470. 'Romeo'.

330471. 'Vialone nano'.

330472 and 330473. ORYZA SATIVA L. Gramineae. Rice.

From Japan. Seeds presented by Faculty of Agriculture, University of Tokyo, Bunkyo-ku, Tokyo. Received May 15, 1968.

330472. 'Sabienu U A R'.

330473. 'Hybrid 170/15 U A R'.

330474 to 330479. ORYZA SATIVA L. Gramineae. Rice.

From Korea. Seeds presented by the Director, Crop Experiment Station, Suwon. Received May 15, 1968.

330474. 'Jaekun'.

330477. 'Palkweng'.

330475. 'Jinheung'.

330478. 'Paltal'.

330476. 'Nongkwang'.

330479. 'Suwon 82'.

330480. LEUCAENA LEUCOCEPHALA (Lam.) de Wit Leguminosae. Leadtree.

From Ivory Coast. Seeds collected by R. M. Warner, College of Tropical Agriculture, University of Hawaii, Honolulu, Hawaii. Received May 16, 1968.

'Haole Koa'. On road between Divo and Tiassali.

330481. LEUCAENA LEUCOCEPHALA (Lam.) de Wit Leguminosae. Leadtree.

From Dahomey. Seeds collected by R. M. Warner, College of Tropical Agriculture, University of Hawaii, Honolulu, Hawaii. Received May 16, 1968.

'Koa Haole'. Porto Novo.

330482 to 330562.

From England. Seeds presented by University of Reading, Reading, Berkshire. Listed in 1967 Seed Exchange List. Received May 16, 1968.

330482. *AEGILOPS COMOSA* Sibth. & Sm. Gramineae.330483. *AEGILOPS CRASSA* Boiss.330484. *AEGILOPS CYLINDRICA* Host

Jointed goatgrass.

330485. *AEGILOPS JUVENALIS* (Thell.) Eig330486. *AEGILOPS LONGISSIMA* Schweinf. & Muschl.330487. *AEGILOPS OVATA* L.330488. *AEGILOPS SPELTOIDES* Tausch330489. *AEGILOPS SQUARROSA* L.330490. *AEGILOPS TRIARISTATA* Willd.330491. *AEGILOPS TRIUNCIALIS* L.

Barb goatgrass.

330492. *AEGILOPS VARIABILIS* Eig.330493. *AEGILOPS VENTR-COSA* Tausch330494. *AVENA ABYSSINICA* Hochst. ex Rich. Gramineae.330495. *AVENA BARBATA* Pott ex Link330496. *AVENA BREVIS* Roth330497. *AVENA BYZANTINA* K. Koch

Red oats.

330482 to 330562—Continued

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| 330498. AVENA FATUA L. | | Wild oats. |
| 330499. AVENA NUDA L. | | Naked oats. |
| 330500. AVENA STERILIS L. | | Animated oats. |
| 330501. AVENA STERILIS subsp. LUDOVICIANA (Dur.) Gillet & Magne | | |
| 330502. AVENA STRIGOSA Schreb. | | |
| 330503. HORDEUM AGRIOCRITHON Aberg. Gramineae. | | |
| 330504 to 330507. HORDEUM DISTICHON L. | | Two-rowed barley. |
| 330504. No. 120. | 330506. No. 122. | |
| 330505. No. 121. | 330507. No. 123. | |
| 330508. HORDEUM IRREGULARE Aberg & Wiebe | | |
| 330509. HORDEUM JUBATUM L. | | Foxtail barley. |
| 330510. HORDEUM MARINUM Huds. | | |
| 330511 to 330524. HORDEUM VULGARE L. | | |
| 330511. No. 129. | 330518. No. 136. | |
| 330512. No. 130. | 330519. No. 137. | |
| 330513. No. 131. | 330520. No. 138. | |
| 330514. No. 132. | 330521. No. 139. | |
| 330515. No. 133. | 330522. No. 140. | |
| 330516. No. 134. | 330523. No. 141. | |
| 330517. No. 135. | 330524. No. 142. | |
| 330525 and 330526. SECALE CEREALE L. Gramineae. | | Rye. |
| 330525. 'King II, 4x'. | | |
| 330526. 'King II, 2x'. | | |
| 330527 and 330528. TRITICUM AEGILOPOIDES Forsk. Gramineae. | | |
| 330527. No. 163. | | |
| 330528. No. 164. | | |
| 330529. TRITICUM ABYSSINICUM Steud. | | |
| 330530 to 330538. TRITICUM AESTIVUM L. | | Common wheat. |
| 330530. No. 166. | 330535. No. 171. | |
| 330531. No. 167. | 330536. No. 172. | |
| 330532. No. 168. | 330537. No. 173. | |
| 330533. No. 169. | 330538. No. 174. | |
| 330534. No. 170. | | |
| 330539. TRITICUM PERSICUM (Boiss.) Aitch. & Hemsl. | | |
| 330540 and 330541. TRITICUM COMPACTUM Host | | Club wheat. |
| 330540. No. 176. | | |
| 330541. No. 177. | | |
| 330542 and 330543. TRITICUM DICOCCOIDES Koern. | | |
| 330542. No. 178. | | |
| 330543. No. 179. | | |
| 330544 and 330545. TRITICUM DICOCCUM Schubl. | | |
| 330544. No. 180. | | |

330482 to 330562—Continued

330544 and 330545—Continued

330545. No. 181.

330546 and 330547. *TRITICUM DURUM* Desf.

Durum wheat.

330546. No. 182.

330547. No. 183.

330548. *TRITICUM ISPAHANICUM* Heslot.330549. *TRITICUM MACHA* Dekapr. & Men.330550 and 330551. *TRITICUM MONOCOCCUM* L.

330550. No. 186

330551. No. 187.

330552. *TRITICUM ORIENTALE* Perc.330553. *TRITICUM PALAEOCOLCHICUM* Men.330554 and 330555. *TRITICUM POLONICUM* L.

Polish wheat.

330554. No. 190.

330555. No. 191.

330556 and 330557. *TRITICUM SPHAEROCOCCUM* Percival

330556. No. 192.

330557. No. 193.

330558 and 330559. *TRITICUM SPELTA* L.

Spelt.

330558. No. 194.

330559. No. 195.

330560 and 330561. *TRITICUM TURGIDUM* L.

Poulard wheat.

330560. No. 196.

330561. No. 197.

330562. *TRITICUM TIMOPHEEVII* (Zhukov.) Zhukovsky**330563 to 330623.**

From Belgium. Seeds presented by Chaire de Phytotechnie, Ecologie et Genetique des Plants Tropicales, Faculte des Sciences Agronomiques, Gembloux. Received May 17, 1968.

330563. *ADENODOLICHOS PUNCTATUS* Harms Leguminosae.

N.I. 167.

330564. *CAJANUS CAJAN* (L.) Millsp. Leguminosae.

Pigeon-pea.

N.I. 223.

330565. *CANAVALIA ENSIFORMIS* (L.) DC. Leguminosae.

Jack-bean.

N.I. 44.

330566. *CANAVALIA MARTIMA* (Aubl.) Thouars

N.I. 250.

330567 and 330568. *CENTROSEMA PLUMIERI* (Turp.) Benth. Leguminosae.

330567. N.I. 210.

330568. N.I. 237.

330569 and 330570. *CENTROSEMA PUBESCENS* Benth.

330569. N.I. 194.

330563 to 330623—Continued

330569 and 330570—Continued

330570. N.I. 235.

330571. *DESMODIUM CANADENSE* (L.) DC. Leguminosae.

N.I. 62.

330572. *DESMODIUM OVALIFOLIUM* Guill. & Perr.

N.I. 71.

330573. *DESMODIUM SALICIFOLIUM* (Poir. ex Lam.) DC.

N.I. 96.

330574. *DOLICHOS AFRICANUS* Brenan ex R. Wilczek Leguminosae.

N.I. 97.

330575. *DOLICHOS ARGENTUS* Willd.

N.I. 179.

330576. *DOLICHOS AXILLARIS* E. Mey.

N.I. 216.

330577 to 330579. *DOLICHOS BIFLORUS* L.

Twinflower dolichos.

330577. N.I. 43.

330578. N.I. 52.

330579. N.I. 256.

330580. *DOLICHOS FALCATUS* Klein ex Willd.

N.I. 258.

330581. *DOLICHOS GLABRESCENS* R. Wilczek

N.I. 168.

330582. *DOLICHOS GULULU* Wildem.

N.I. 169.

330583. *DOLICHOS* sp.

N.I. 240.

330584 to 330586. *PHASEOLUS ACONITIFOLIUS* Jacq. Leguminosae.

Mothbean.

330584. N.I. 41.

330585. N.I. 51.

330586. N.I. 105.

330587 and 330588. *PHASEOLUS ANGULARIS* (Willd.) W. F. Wight

Adsuki bean.

330587. N.I. 140.

330588. N.I. 189.

330589. *PHASEOLUS CARACALLA* L.

Bertoni bean.

N.I. 254.

330590 to 330592. *PHASEOLUS LATHYROIDES* L.

330590. N.I. 128.

330591. N.I. 136.

330592. N.I. 181.

330593. *PHYSOSTIGMA MESOPONTICUM* Taub. Leguminosae.

N.I. 170.

330563 to 330623—Continued

330594. *PSOPHOCARPUS PALUSTRIS* Desv. Leguminosae.
N.I. 171.
330595. *PSOPHOCARPUS TETRAGONOLOBUS* (L.) DC. Goabean.
N.I. 183.
330596. *PSOPHOCARPUS* sp.
N.I. 221.
330597. *RHYNCHOSIA PHASEOLOIDES* (Sw.) DC. Leguminosae.
Crabseye rhynchosia.
N.I. 63.
330598. *RHYNCHOSIA PYRAMIDALIS* (Lam.) Urb.
N.I. 81.
330599. *SPHENOSTYLIS ERECTA* (Bak. f.) Hutch. ex E. G. Baker Leguminosae.
N.I. 172.
330600. *TERAMNUS MICANS* (Welw.) Bak. f. Leguminosae.
N.I. 276.
- 330601 and 330602. *VERDCOURTIA LIGNOSA* (L.) Wilczek Leguminosae.
330601. N.I. 92.
330602. N.I. 145.
- 330603 and 330604. *VIGNA AMBACENSIS* Welw. ex Baker Leguminosae.
330603. N.I. 192.
330604. N.I. 236.
330605. *VIGNA GRACILIS* (Guill. & Per.) Hook. f.
N.I. 177.
330606. *VIGNA HETEROPHYLLA* A. Rich.
N.I. 122.
- 330607 and 330608. *VIGNA LUTEOLA* (Jacq.) Benth.
330607. N.I. 112.
330608. N.I. 200.
330609. *VIGNA MARANGUENSIS* (Taub.) Harms.
N.I. 121.
- 330610 and 330611. *VIGNA OBLONGIFOLIA* A. Rich.
330610. N.I. 123.
330611. N.I. 124.
330612. *VIGNA PARVIFLORA* Welw. ex. Baker
N.I. 282.
330613. *VIGNA RACEMOSA* Hutch. & Dalz. ex E. G. Baker
N.I. 239.
330614. *VIGNA RETICULATA* Hook. f.
N.I. 278.
- 330615 to 330619. *VIGNA VEXILLATA* (L.) A. Rich.
330615. N.I. 180. 330617. N.I. 244.
330616. N.I. 224. 330618. N.I. 245.

330563 to 330623—Continued

330615 to 330619—Continued

330619. N.I. 246.

330620 and 330621. *VIGNA WITTEI* Bak. f.

330620. N.I. 193.

330621. N.I. 238.

330622. *VIGNA* sp.

N.I. 260.

330623. *VOANDZEIA SUBTERRANEA* (L.) Thouars Leguminosae.

N.I. 201.

330624 and 330625. *ORYZA SATIVA* L. Gramineae. Rice.

From Morocco. Seeds presented by the Agricultural Attache, Rabat. Received May 20, 1968.

330624. 'Stirpe No. 1'.

330625. 'Triomphe du Maroc'.

330626. *ORYZA SATIVA* L. Gramineae. Rice.

From Pakistan. Seeds presented by the Economic Botanist, Dacca. Received May 20, 1968.

'Panbira'.

330627. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

From Ghana. Seeds presented by Crops Research Institute, Ghana Academy of Science, Bunso, Bosuso. Received May 20, 1968.

'Molokai'.

330628. *CUCUMIS SATIVUS* L. Cucurbitaceae. Cucumber.

From Pakistan. Seeds presented by W. Allan Goodbary, United States Agency for International Development, Mission to Pakistan, Dacca. Received May 20, 1968.

'Kshira'.

330629 to 330631.

From the United States. Seeds collected by Arthur S. Barclay, Crops Research Division, Plant Industry Station, Beltsville, Md. Received May 22, 1968.

330629 and 330630. *LESQUERELLA GORDONII* (A. Gray) Wats. Cruciferae.

330629. Col. No. 2058. Upper flood plain of Santa Cruz River near intersection of Silverbell and Sunset Roads, Tucson, Ariz. Annual, ascending to erect, forming solid stands. Seeds from most vigorous, erect and productive plants in population.

330630. Col. No. 2061. Along Sandario Road, six miles north of junction with State Highway 86, 12 miles west of Tucson, Ariz. Extensive population on mesquite flat.

330631. *LESQUERELLA PALMERI* S. Wats.

Col. No. 2053. Along State Highway 85, 24 miles south of Gila Bend, Maricopa County, Ariz. Seeds from most vigorous and productive plants in population.

330632. *POA PRATENSIS* L. Gramineae. Kentucky bluegrass.

From Poland. Seed presented by Instytut Hodowlii Akumatyzagji Roslin, Zaklad Roslin Pastewnych, Krakow. Received May 22, 1968.

330633 to 330635. GLYCINE MAX (L.) Merr. Leguminosae. Soybean.

From the Republic of South Africa. Seed presented by Plant Introduction Officer, Department of Agricultural Technical Services, Pretoria. Received May 22, 1968.

330633. 36 S 58. P 449 × Dixie. Plants 28 to 30 inches high; flowers white. Medium-late maturity; susceptible to leaf spot. (P 449 imported from China 1965).

330634. 50 S 81. Seminole × 42 S 410. Plants 32 to 36 inches high; leaves large, dark green; flowers purple. Medium maturity; susceptible to leaf spot. (42 S 410 from 37 S 14 × Mandarin).

330635. 59 S 136. Parentage unknown. Plants to 30 inches high; flowers purple. Medium maturity; susceptible to leaf spot.

330636 to 330638.

From Australia. Seeds presented by A. A. Brown, Alexandria, Virginia. Received May 24, 1968.

330636. ACACIA sp. Leguminosae.

330637. BRACHYCHITON ACERIFOLIUM F. Muell. Sterculiaceae.

Garrajong.

330638. CASUARINA sp. Casuarinaceae.

330639 to 330641. ORYZA SATIVA L. Gramineae. Rice.

From France. Seed presented by the Ecole Nationale Supérieure Agronomique de Montpellier, Montpellier. Received May 24, 1968.

330639. 'Cigalon'.

330640. 68-1.

330641. 68-2.

330642. ORYZA SATIVA L. Gramineae. Rice.

From Ceylon. Seed presented by the Botanist, Central Agricultural Rice Institute, Gannoruwa, Peradeniya. Received May 24, 1968.

'H-7'.

330643 to 330653.

From Uruguay. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Georgia. Numbered May 27, 1968.

330643 to 330649. ARACHIS HYPOGAEA L. Leguminosae.

330643. Col. No. 18. Oil peanut. Pods from varietal mixture from F. P. Chiesa, Tres Cruces, Tacuarembó. Mixed Spanish or Spanish-Valencia types; pods mostly 2 segmented; testa flesh. Cultivated.

330644. Col. No. 18A. Same as P.I. 330643 except testa purple. Casa García Pallares, general retailer and wholesale of farm supplies, Tacuarembó.

330645. Col. No. 19. Valencia type; pods 2 to 3 segmented; testa red, some purple. Cultivated.

330646. Col. No. 20. Valencia type; pods 2 to 3 segmented; testa red, some purple. Cultivated.

From the warehouse of Chagas and Quay, in the commercial production center at Tacuarembó.

330647. Col. No. 21. Random sample of bulked harvest. Mixed Spanish and Valencia types; pods 2 segmented; testa flesh. Cultivated.

330643 to 330653—Continued

330643 to 330649—Continued

330648. Col. No. 22. Random sample. Mixed Spanish and Valencia types; pods 3 segmented; testa red. Cultivated.

330649. Col. No. 25. Farm of Sr. Sebastian Numoz, 30 km. south of Rivera, Km. 475.5. Spanish type, mixed varieties; testa flesh and purple. (*Arachis burkartii* indigenous between road and field of *A. hypogaea*.)

330650 to 330653. *ARACHIS VILLOSA* Benth.

330650. Col. No. 9. Eight km. northwest of Colonia, 67 m. from Rio de La Plata and 90 m. north of road at Playa Arenisca. Seed of P.I.

338321. Branches few, prostrate; leaves small, margins ciliate; taproot 1 cm. or more in diameter; 30 to 60 cm. long. Well nodulated; no rhizomes; pegs vertical, 15 to 20 cm. with isthmus 5 to 7 cm. between the two locules. Wild.

330651. Col. No. 11. Seven km. northwest of Colonia, 200 m. from Rio de La Plata, on sand dunes. Seed of P.I. 338322. Plants cover an area 40 m. in diameter. Perennial. Foliage sparse, prostrate; leaves small; petioles long; pegs horizontal, 20 cm. long, peripheral. Tap rooted. No rhizomes. Wild.

330652. Col. No. 13. Fourteen km. east of Colonia, 125 m. from Rio de La Plata. Area covered 3 m. in diameter. Seed of P.I. 338323. Perennial, prostrate, seeds few; leaves pubescent, ciliate. Wild.

330353. Col. No. 15. Twelve km. east of Colonia, 40 m. from Rio de La Plata, in sand dunes, covering several acres. Seed of P.I. 338324. Perennial, prostrate; seeds few; leaves pubescent, ciliate. No rhizomes. Wild.

330654 to 330684.

From Israel. Seed presented by Meir Forti, the Negev Institute for Arid Zone Research, Beersheva. Received May 27, 1968.

330654. *ACACIA CYCLOPS* A. Cunn. ex Don Leguminosae.

Cyclops acacia.

No. 4209. Beersheva. Originally from Australia.

330655. *ATRIPLEX ATACAMENSIS* Phil. Chenopodiaceae.

No. 4585. Beersheva. Originally from Chile.

330656. *ATRIPLEX BREWERI* S. Wats.

No. 4713. Omer. Omer trial plot 7 km. northeast of Beersheva. Originally from the United States.

330657. *ATRIPLEX CANESCENS* (Pursh) Nutt.

No. 4714. Omer. Originally from the United States.

330658. *ATRIPLEX CANESCENS* var. *LINEARIS* (S. Wats.) Munz

No. 4721. Omer. Originally from the United States.

330659. *ATRIPLEX HALIMUS* L.

Mediterranean saltbush.

No. 4616. Omer. Originally from Israel.

330660. *ATRIPLEX INFLATA* F. Muell.

No. 4774. Beersheva. Annual or short lived. Volunteering. Originally from Australia.

330661. *ATRIPLEX LENTIFORMIS* S. Wats.

No. 4722. Beersheva. Originally from the United States.

330654 to 330684—Continued

330662. *ATRIPLEX LEUCOCLADA* Boiss.
No. 4718. Omer. Winter dormant. Originally from Israel.
330663. *ATRIPLEX MULLERI* Benth. Queensland saltbush.
No. 4323A. Beersheva. Perennial, small. Volunteering. Originally from Australia.
330664. *ATRIPLEX NUMMULARIA* Lindl.
No. 3648A. Beersheva. Originally from Australia.
330665. *ATRIPLEX POLYCARPA* S. Wats.
No. 4633. Beersheva. Originally from the United States.
330666. *ATRIPLEX PSEUDOCAMPANULATA* Aellen ex Blom
No. 4302. Beersheva. Short lived. Heavily volunteering. Originally from Australia.
330667. *ATRIPLEX ROSEA* L. Tumbling orach.
No. 4413. Beersheva. Annual. Originally from Denmark.
330668. *ATRIPLEX SPONGIOSA* F. Muell.
No. 4747. Beersheva. Annual. Originally from Australia.
330669. *ATRIPLEX VESICARIA* Heward
No. 4042. Beersheva. Originally from Australia.
330670. *ATRIPLEX* sp.
No. 4760. Beersheva. Originally from Rioja Province, Argentina.
330671. *ATRIPLEX* sp.
No. 4375. Beersheva. Short lived. Reported to grow in vicinity of seashore. Originally from Venezuela.
330672. *KOCHIA BREVIFOLIA* R. Br. Chenopodiaceae.
No. 4850. Beersheva. Strongly volunteering. Originally from western Australia.
330673. *KOCHIA GEORGEI* Diels
No. 4213. Beersheva. Moderately volunteering. Originally from Australia.
330674. *KOCHIA INDICA* Wight
No. 4855. Beersheva. Casual in Israel. Annual. Selfpropagating. Originally from Negev.
330675. *KOCHIA PROSTRATA* (L.) Schrad
No. 4869. Beersheva. Originally from Uzbekistan, Soviet Union.
330676. *LOTUS CRETICUS* L. Leguminosae.
No. 4767. Beersheva. Originally from Tunisia.
330677. *MEDICAGO ARBOREA* L. Leguminosae. Tree alfalfa.
No. 4535. Beersheva. Summer dormant. Originally from the Mediterranean.
330678. *ORYZOPSIS MILIACEA* (L.) Benth. & Hook. ex Aschers & Schweinf. Gramineae. Smilgrass.
No. 4644. Beersheva.
330679. *PENNISETUM ASPERIFOLIUM* (Desf.) Kunth Gramineae.
No. 4790. Beersheva. Originally from Israel.

330654 to 330684—Continued

330680. SCORPIURUS MURICATA L. Leguminosae. Scorpiontail.
No. 4548. Beersheva. Annual. Spontaneous. Originally from Beer-
sheva.
330681. SPOROBULUS AIROIDES (Torr.) Torr. Gramineae. Alkali sacaton.
No. 4112. Beersheva. Originally from the United States.
330682. STIPA TORTILIS Desf. Gramineae.
No. 4752. Beersheva. Originally from Beersheva.
330683. TETRACHNE DREGEI Nees Gramineae.
No. 4848. Omer. Originally from South Africa.
330684. TRIGONELLA ARABICA Delile Leguminosae.
No. 4364. Beersheva. Annual. Spontaneous. Originally from Beer-
sheva.

330685 to 330723.

From Iran. Seed presented by M. D. Kernick, Food and Agriculture Organi-
zation of the United Nations, Tehran. Received May 28, 1968.

- 330685 and 330686. AGROPYRON CRISTATUM (L.) Gaertn. Gramineae.
Crested wheatgrass.
330685. No. 334. Northern Flour.
330686. No. 1020.
- 330687 to 330690. AGROPYRON TAURI Boiss. & Bal.
330687. No. 160. Kandavan Pass. 330689. No. 268. Sirak-Sar.
330688. No. 267. Sirak-Sar. 330690. No. 269. Sirak-Sar.
330691. ARTEMISIA AUCHERI Boiss. Compositae.
No. 313. Homand.
330692. ARTEMISIA HERBA-ALBA Asso
No. 312. Rudshur.
- 330693 and 330694. ASTRAGALUS CHABORASICUS Boiss. & Haussk. ex. Boiss.
Leguminosae.
330693. No. 052. Southwestern Kermanshah.
330694. No. 281. Tchar Dangeh.
330695. ASTRAGALUS KOTSCHYANUS Boiss.
No. 105. Northeastern Mianeh.
330696. ASTRAGALUS SILIQUOSUS Boiss.
No. 050. Eastern Malayer.
330697. ATRIPLEX VERRUCIFERA Bieb. Chenopodiaceae.
No. 359. Valladabad.
- 330698 and 330699. BOTHRIOCHLOA ISCHAEMUM (L.) Keng Gramineae.
King's Ranch bluestem.
330698. No. 024. Dorud.
330699. No. 242. Northern Khoy.
330700. BROMUS CAPPADOCICUS Boiss. & Bal. Gramineae.
No. 112. Northeastern Mianeh.
- 330701 and 330702. BROMUS TOMENTOSUS Trin. ex. Ledeb.
330701. No. 159. Kandavan Pass.

330685 to 330723—Continued

330701 and 330702—Continued

330702. No. 339. Flour.
- 330703 to 330705. *BROMUS TOMENTELLUS* Boiss.
330703. No. 110. Southwestern Firuzkuh.
330704. No. 290. Borudjan.
330705. No. 296. Northern Khorassan.
330706. *FESTUCA OVINA* L. Gramineae. Sheep fescue.
No. 1074.
330707. *FESTUCA SCLEROPHYLLA* Boiss.
No. 261. Sirak-Sar.
330708. *KOCHIA PROSTRATA* (L.) Schrad. Chenopodiaceae.
No. 362. Rasht.
330709. *LASIAGROSTIS CARAGANA* Trin. & Rupr. Gramineae.
No. 128. Southwestern Firuzkuh.
- 330710 and 330711. *MELICA CUPANII* Guss. Gramineae.
330710. No. 198. Karadj.
330711. No. 295. Northern Khorassan.
330712. *ONOBRYCHIS GAUBAE* Bornm. Leguminosae.
No. 099. Homand.
330713. *ONOBRYCHIS MELANOTRICHA* Boiss.
No. 063. Western Arak.
330714. *ONOBRYCHIS PERSICA* Sirjaev & K. H. Rechinger
No. 077. Western Shahr-Kord.
330715. *ONOBRYCHIS* sp.
No. 270. 'Jajerudi'. Eastern Tehran Hills.
330716. *ORYZOPSIS HOLCIFORMIS* (Bieb.) Hack. Gramineae. Ricegrass.
No. 030. Northwestern Ardekan.
330717. *PENNISSETUM ORIENTALE* L. C. Rich. Gramineae.
No. 015. Southern Esfahan.
330718. *POA* sp. Gramineae.
No. 333. Northern Flour.
330719. *SALSOLA RIGIDA* Pall. Chenopodiaceae.
No. 247. Rudshur.
330720. *SANGUISORBA LASIOCARPA* Hand.-Mazz. Rosaceae.
No. 046. Gach-Saran.
330721. *SECALE MONTANUM* Guss. Gramineae. Mountain rye.
No. 178. Karadj.
330722. *STIPA BARBATA* Desf. Gramineae.
No. 136. Homand.
330723. *STIPA LAGASCAE* Roem. & Schult.
No. 135. Homand.

330724. SOLANUM COMMERSONII Dunal ex Poir. Solanaceae.

From Uruguay. Tubers collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Georgia. Received May 31, 1968.

Col. No. 26. Between Manual Diaz and Tranqueras on Route 5. Plants 20 to 30 cm. high, flowering; flowers white, some bluish purple. Wild, tuber bearing.

330725 to 330727. LYCOPERSICON ESCULENTUM Mill. Solanaceae. Tomato.

From the United States. Seeds increased at Regional Plant Introduction Station, Ames, Iowa. Numbered May 31, 1968.

330725. A-633. 'Curl Tomato'. From P. A. Young, Jacksonville, Texas. Plant habit variable. Fruit 5.0 to 7.5 cm., globose, red with yellow skin, smooth, medium concentric and radial cracking, locules 4 or more. Medium set and maturity.

From D. L. Strider, Department of Plant Pathology, North Carolina State University, Fletcher, N. C. Plants medium size, variable habit. Fruit 2.5 to 3.0 cm., globose, red with yellow skin, no fasciation, slight concentric cracking, locules 2.

330726. A-1109. 'Bulgaria No. 3'.

330727. A-1110. 'Bulgaria No. 12'.

330728 to 330731. ORYZA SATIVA L. Gramineae. Rice.

From Liberia. Seeds presented by M. L. Pillai, Central Agricultural Experiment Station, Suakoko. Received May 31, 1968.

330728. No. 25. 'Gissa'. **330730.** No. 55. 'Sokotera'.

330729. No. 42. 'Sokotera'. **330731.** No. 107. 'Sokotera'.

330732 to 330921. SORGHUM BICOLOR (L.) Moench Gramineae.

From Ethiopia. Seed collected in March and April 1968, by L. V. Peters, Crops Research Division, United States Department of Agriculture, Serere Experiment Station, Soroti, Uganda. Numbered June 3, 1968.

Local name "Mashila" applies to all collections except where otherwise indicated.

Addis Ababa market.

330732. Col. No. P-401. Reported to be from the Ambo area. Seed pearly white.

330733. Col. No. P-402. Reported to be from the Ambo area. Seed pearly white and light red mixed.

330734. Col. No. P-403. Seed pearly red.

330735. Col. No. P-404. Seed white and yellow mixed.

330736. Col. No. P-405. Reported to be from the Awash area. Seed reddish brown; glumes black.

330737. Col. No. P-406. Seed pearly white and red mixed.

330738. Col. No. P-407. Seed pearly white and glumes straw color.

330739. Col. No. P-408. Seed pearly white; glumes straw color.

330740. Col. No. P-409. Seed brown.

330741. Col. No. PX410. Seed pearly white and red mixed.

330742. Col. No. P-411. Seed pearly white.

330743. Col. No. P-412. Seed pearly white, red and brown mixed.

330732 to 330921—Continued

- 330744.** P-413. Seed white with dark subcoat and few red mixed.
330745. Col. No. P-414. Seed chalky white with dark subcoat, yellow and red mixed.
330746. Col. No. P-415. Seed brown.
330747. Col. No. P-428. From Jidda, Ghinnir. Elevation 1,950 m. Collected by Sudan Interior Mission. Used for injera when mixed with teff. Heavy, black, clay soil. Seed reddish brown. Glumes dark.

Dire Dawa market.

- 330748.** Col. No. P-424. Seed yellow and light red mixed.
330749. Col. No. P-425. Seed small, reddish brown.
330750. Col. No. P-426. Seed yellow.
330751. Col. No. P-428. Seed pearly white, few light pink.
330752. Col. No. P-429. Seed pearly white, yellow and light and dark red mixed.
330753. Col. No. P-430. Seed small to very large, pearly white to light yellow mixed.
330754. Col. No. P-431. Seed pearly white, yellow and red mixed.
330755. Col. No. P-432. Seed pearly white, yellow and light red mixed.
330756. Col. No. P-433. Seed dark brown.
330757. Col. No. P-435. Seed pearly white.
330758. Col. No. P-436. Seed pearly white, mostly light red mixed.
330759. Col. No. P-437. Seed pearly white, light yellow, mostly light red mixed.

Harrar market.

- 330760.** Col. No. P-438. Seeds pearly white, yellow, red and brown mixed.
330761. Col. No. P-439. Seed mostly yellow, few light and red mixed.
330762. Col. No. P-440. Seed mostly yellow, few red and brown mixed.
330763. Col. No. P-441. Seed light red.
330764. Col. No. P-442. Seed mostly yellow, few pearly white.
330765. Col. No. P-443. Seed yellow.
330766. Col. No. P-445. Seed yellow.
330767. Col. No. P-446. Seed pinkish red.
330768. Col. No. P-447. Seed yellow.
330769. Col. No. P-448. Seed yellow.
330770. Col. No. P-449. Seed yellow.
330771. Col. No. P-450. Seed pearly white and pinkish red mixed.
330772. Col. No. P-451. Seed pearly white, yellow and red mixed.
330773. Col. No. P-452. Seed yellow.
330774. Col. No. P-453. Seed yellow.
330775. Col. No. P-454. Seed pearly white.
330776. Col. No. P-455. Seed yellow and red mixed.
330777. Col. No. P-456. Seed mostly yellow, few red.
330778. Col. No. P-457. Seed yellow.
330779. Col. No. P-458. Seed yellow.

330732 to 330921—Continued

330780. Col. No. P-459. Seed yellow and light red.
 330781. Col. No. P-460. Seed few pearly white, mostly red.
 330782. Col. No. P-461. Seed pearly white and light red mixed.
 330783. Col. No. P-462. Seed pearly white, yellow, red and brown mixed.
 330784. Col. No. P-463. Seed yellow, few white, red and brown mixed.

Alemaya market.

330785. Col. No. P-464. Seed pearly white.
 330786. Col. No. P-465. Seed light and dark red mixed.
 330787. Col. No. P-466. Seed pearly white, red and brown mixed.
 330788. Col. No. P-467. Seed white and red mixed.
 330789. Col. No. P-468. Seed pearly white, red and brown mixed.
 330790. Col. No. P-469. Seed few pearly white, mostly light red.
 330791. Col. No. P-470. Seed pearly white, light and dark red and brown mixed.
 330792. Col. No. P-471. Seed pearly white, light red and brown mixed.
 330793. Col. No. P-472. Seed pearly white, yellow, red and brown mixed.
 330794. Col. No. P-473. Seed pearly white, few light pink and brown.
 330795. Col. No. P-474. Seed pearly white, red and brown mixed.
 330796. Col. No. P-477. From Bolosso, elevation 1,350 m.

Collected by Sudan Interior Mission. Red soil type area. Seed white with red to purple blotches, dark subcoat. Glumes dark.

330797. Col. No. P-478. From Bolosso, elevation 1,350 m.

Collected by Sudan Interior Mission. Red soil type. Seed pearly red brown.

From Woliso. Collected by Sudan Interior Mission. Elevation 2,160 to 2,400 m. Red and black cotton soil.

330798. Col. No. P-482. Seed pearly red brown.
 330799. Col. No. P-483. Seed red brown.
 330800. Col. No. P-484. Seed pearly white and red and brown.
 330801. Col. No. P-485. Seed brown.
 330802. Col. No. P-487. Seed pearly white and light red.

Dembidolo market. Elevation 1,560 m.

330803. Col. No. P-503. Seed pearly white.
 330804. Col. No. P-504. Seed pearly red.
 330805. Col. No. P-506. Seed pearly white and red mixed.
 330806. Col. No. P-507. Seed mostly pearly white, few red.
 330807. Col. No. P-510. Seed small, chalky white; dark subcoat. (Hegari type).

330808. Col. No. P-516. From Nekempt market. Seed chalky white with dark subcoat and reddish brown mixed.

330809. Col. No. P-517. From Nekempt market. Seed chalky white with dark subcoat and reddish brown mixed.

330810. Col. No. P-518. From Nekempt. Local name Tinkish.

Collected by agricultural agents in area. Stalk said to be sweet. Seeds shatter. Head open, central rachis. Glumes long, black, cover seed.

330732 to 330921—Continued

- 330811.** Col. No. P-519. From Tinfa in Nekempt. Local name Anchero. Collected by Agricultural Agent in area. Used for injera. Seed pearly white. Head semicompact, no central rachis. Glumes black, cover $\frac{1}{2}$ of seed.
- 330812.** Col. No. P-520. From Nekempt area. Local name Bobay. Collected by agricultural agent in area. Used for porridge, injera, and tella. Seed white. Head long, semicompact, central rachis. Glumes pubescent, covering $\frac{2}{3}$ of seed, awned.
- 330813.** Col. No. P-521. From Sire, Nekempt. Local name Bobay. Collected by agricultural agent in area. Used for porridge, injera, and tella. Seed white. Head long, semicompact, central rachis. Glumes pubescent, covering $\frac{2}{3}$ of seed, awned.
- 330814.** Col. No. P-522. From Sire, Nekempt. Collected by agricultural agent. Seed yellow. Head very compact, durra type. Glumes cover $\frac{1}{2}$ of seed, awned.
- From Nekempt. Local name Bisinga. Collected by agricultural agent.
- 330815.** Col. No. P-523. Seed reddish brown. Head open, reduced central rachis. Glumes cover $\frac{1}{2}$ of seed, straw to brown, awned.
- 330816.** Col. No. P-524. Seed deep red. Head open, no central rachis. Glumes cover $\frac{1}{2}$ of seed, dark, awns.
- 330817.** Col. No. P-525. Seed grey brown. Head open, no central axis. Glumes cover $\frac{1}{2}$ of seed, dark, awned. Used for injera and tella.
- 330818.** Col. No. P-526. From Tinfa, Nekempt. Local name Dappo. Collected by agricultural agent. Used for tella and injera. Seed reddish. Head semicompact, no central rachis. Glumes cover $\frac{1}{3}$ of seed, mahogany, awnless.
- 330819.** Col. No. P-527. From Nekempt area. Local name Sippo. Collected by agricultural agent. Used for tella and porridge. Seed brown. Head open, central rachis. Glumes covering seed, black, awnless.
- 330820.** Col. No. P-528. From Arjo. Local name Red Bisinga. Collected by agricultural agent. Seed reddish brown. Head semicompact, no central rachis. Glumes cover $\frac{1}{3}$ of seed, red to brown, awns.
- 330821.** Col. No. P-529. From Nekempt area. Local name Bisinga. Collected by agricultural agent. Seed reddish brown. Heads semicompact, reduced rachis. Glumes cover $\frac{1}{2}$ of seed, awned.
- 330822.** Col. No. P-530. From Masara, Nekempt. Local name Chabbi. Collected by agricultural agent. Used for injera. Seed white. Heads long, open, central rachis, extended. Glumes cover $\frac{2}{3}$ of seed, awned.
- 330823.** Col. No. P-531. From Nekempt area. Local name Sippo. Collected by agricultural agent. Used for porridge and tella. Seed brown. Heads open, sudangrass type. Glumes covering seed, purple black, awned.
- 330824.** Col. No. P-532. Near the Didessa River, Didessa, Nekempt. Local name Red Dappo. Collected by agricultural agent. Used for porridge, injera, and tella. Seed reddish brown. Head open, to 20 cm. long pedicels, seed clustered on end. Glumes cover $\frac{1}{2}$ of seed, black, pubescent, awnless.
- 330825.** Col. No. P-533. From Nekempt area. Collected by agricultural agent. Seed reddish brown. Heads open, central rachis. Glumes cover $\frac{1}{3}$ of seed, brown, awned.
- 330826.** Col. No. P-534. From Arjo area. Local name Boba. Collected by agricultural agent. Seed white. Heads open, no rachis. Glumes cover $\frac{1}{2}$ of seed, sienna, awnless.

330732 to 330921—Continued

330827. Col. No. P-535. From Sire, Nekempt. Collected by agricultural agent. Seed light red brown. Head open, no rachis. Glumes cover $\frac{1}{2}$ of seed, black, awned.
330828. Col. No. P-536. From Gimbi. Collected by agricultural agent. Seed reddish brown. Head open, no rachis. Glumes cover less than $\frac{1}{4}$ of seed, mahogany, awned.
330829. Col. No. P-537. From Tinfa, Nekempt. Sweet sorghum type. Collected by agricultural agent. Seed brown. Head open, no rachis. Glumes purple, cover seed, awned.
330830. Col. No. P-538. From Nekempt area. Collected by agricultural agent. Seed light red. Head open, central rachis extended. Glumes cover $\frac{1}{3}$ of seed, brown to purple, awned.
330831. Col. No. P-539. From Nekempt area. Collected by agricultural agent. Seed red. Head open, no rachis, extended. Glumes cover $\frac{1}{3}$ of seed, tan, awned.
330832. Col. No. P-540. From Sire, Nekempt. Collected by agricultural agent. Seed brown. Head open, central rachis, extended. Glumes mahogany to black, awned.
330833. Col. No. P-541. From Arbgebeya, Nekempt. Collected by agricultural agent. Seed brown. Heads open, no rachis, extended. Glumes straw to green as immature when harvested, awned.
330834. Col. No. P-542. From Didessa, Nekempt. Collected by agricultural agent. Seed tan. Head open, 20 cm. pedicels, seeds clustered on ends. Glumes cover $\frac{1}{3}$ of seed, pubescent, black, awnless.
330835. Col. No. P-543. From Gimbi. Collected by agricultural agent. Seed grey tan. Head open, no rachis. Glumes cover $\frac{1}{2}$ of seed, purple, awned.
330836. Col. No. P-544. From Gimbi. Collected by agricultural agent. Seed white. Head open, central rachis, extended. Glumes light purple, cover $\frac{1}{2}$ of seed, awned.
330837. Col. No. P-545. From Arbgebeya, Nekempt. Collected by agricultural agent. Seed tan. Head open, pedicels 20 cm., heavy. Glumes purple, pubescent, cover $\frac{1}{2}$ of seed, awnless. Seeds clustered on ends.
330838. Col. No. P-546. From Boneya, Nekempt. Collected by agricultural agent. Seed pearly red. Head compact, durra type. Glumes cover $\frac{1}{3}$ of seed, black, awned.
330839. Col. No. P-547. From Gimbi. Collected by agricultural agent. Seed reddish. Head semicompact, central rachis. Glumes cover $\frac{1}{2}$ of seed, purple, awned.
330840. Col. No. P-548. From Sire, Nekempt. Collected by agricultural agent. Seed reddish. Head open, no rachis. Glumes cover $\frac{1}{3}$ of seed, mahogany, awned.
330841. Col. No. P-549. From Nekempt area. Collected by agricultural agent. Seed pearly light red orange. Head open, rachis extended. Glumes cover $\frac{1}{2}$ of seed, mahogany, awned.
330842. Col. No. P-550. From Nekempt area. Collected by agricultural agent. Seed brown. Head semicompact, no rachis, extended. Glumes immature as green, probably purple, awned.
- From Sire, Nekempt. Collected by Agricultural Agent.
330843. Col. No. P-551. Seed white with blotches. Head open, rachis extended. Glumes purple, awned.
330844. Col. No. P-552. Seed reddish. Head open, rachis extended to one node. Glumes mahogany, awned.

330732 to 330921—Continued

- 330845.** Col. No. P-553. Seed reddish. Head open, rachis extended. Glumes cover $\frac{1}{2}$ of seed, mahogany to purple, awnless.
- 330846.** Col. No. P-554. From Tinfa, Nekempt. Collected by agricultural agent. Seed tan. Head semicompact. Glumes dark, awned.
- 330847.** Col. No. P-555. From Boneya, Nekempt. Seed brown. Head open, rachis extended. Glumes covering seed, black, awned.
- 330848.** Col. No. P-556. From Gimbi. Collected by agricultural agent. Seed pearly reddish. Head compact, durra type. Glumes cover $\frac{1}{4}$ of seed or less, dark, awned.
- 330849.** Col. No. P-557. From Gimbi, Agedda. Collected by agricultural agent. Seed reddish brown. Head open, rachis extended. Glumes straw to white, cover $\frac{3}{4}$ of seed, awned.
- 330850.** Col. No. P-558. From Arjo. Collected by agricultural agent. Seed reddish. Head compact to open. Glumes mahogany, awnless.
- 330851.** Col. No. P-559. From Harato, Horro Guduru. Collected by agricultural agent. Seed reddish brown. Head semicompact, rachis extended. Glumes cover $\frac{1}{2}$ of seed, black, awned.
- 330852.** Col. No. P-560. From Sire, Nekempt. Collected by agricultural agent. Seed red brown. Head open. Glumes cover $\frac{1}{2}$ of seed, black, awned.
- 330853.** Col. No. P-561. From Tawi, Nekempt. Collected by agricultural agent. Seed pearly light orange. Head semi-open. Glumes cover $\frac{1}{2}$ of seed, purple black, awned.
- 330854.** Col. No. P-562. From Gutte, Nekempt. Collected by agricultural agent. Seed pearly red brown. Head open. Glumes cover $\frac{1}{2}$ of seed, purple, pubescent, awned.
- 330855.** Col. No. P-563. From Gutte, Nekempt. Collected by agricultural agent. Seed tan. Head open. Glumes cover $\frac{1}{2}$ of seed, straw, awned.
- 330856.** Col. No. P-564. From Nekempt area. Collected by agricultural agent. Seed grey tan. Head open. Glumes cover $\frac{1}{2}$ of seed, black, awned.
- 330857.** Col. No. P-565. From Harato, Horro Guduru. Collected by agricultural agent. Seed red brown. Head semi-open, rachis extended. Glumes black purple, awned.
- 330858.** Col. No. P-566. From Gutte, Nekempt. Collected by agricultural agent. Seed white. Head open, rachis extended. Glumes white to straw, awned.
- 330859.** Col. No. P-567. From Sire, Nekempt. Seed orange. Head open. Glumes cover $\frac{1}{2}$ of seed, mahogany, awned. Collected by agricultural agent.
- 330860.** Col. No. P-568. From Nekempt area. Collected by agricultural agent. Seed brown. Head semicompact. Glumes cover $\frac{3}{4}$ seed, black, awned.
- 330861.** Col. No. P-569. From Gimbi. Collected by agricultural agent. Seed reddish brown. Head open. Glumes mahogany brown, awned.
- 330862.** Col. No. P-570. From Nekempt area. Collected by agricultural agent. Seed brown red. Head open. Glumes cover $\frac{3}{4}$ of seed, purple, awned.
- 330863.** Col. No. P-571. From Sire, Nekempt. Collected by agricultural agent. Seed white. Head long, open, rachis. Glumes grey white, awned.
- 330864.** Col. No. P-572. From Nekempt area. Collected by agricultural agent. Seed orange. Head open. Glumes reddish brown, awned.

330732 to 330921—Continued

330865. Col. No. P-573. From Arjo. Collected by agricultural agent. Seed reddish. Head large, 46 cm. long, open, central rachis extended. Glumes cover $\frac{1}{2}$ of seed, black to white, awned.

330866. Col. No. P-574. From Sire, Nekempt. Collected by agricultural agent. Seed red orange. Head open. Glumes cover $\frac{1}{3}$ of seed, mahogany, awned.

330867. Col. No. P-575. From Gutte, Nekempt. Collected by agricultural agent. Seed orange. Head open. Glumes cover $\frac{1}{2}$ of seed, straw, awned.

From Gambela market. Elevation 530 m.

330868. Col. No. P-582. Seed reddish brown. Heads 15 cm. long, cylindrical, compact. Glumes cover $\frac{1}{2}$ of seed, black, awnless.

330869. Col. No. P-583. Seed very light tan. Head 15 cm. long, cylindrical, compact. Glumes cover $\frac{1}{3}$ of seed, black, awnless.

330870. Col. No. P-584. Seed very light tan. Head 15 cm. long, cylindrical, compact. Glumes cover $\frac{1}{3}$ of seed, black, awnless.

330871. Col. No. P-585. Seed tan. Head 15 cm. long, cylindrical, compact. Glumes cover $\frac{1}{3}$ of seed, mahogany, awnless.

330872. Col. No. P-586. Seed pearly off white. Head 13 cm. long, cylindrical, compact. Glumes cover $\frac{1}{3}$ of seed, black, awnless.

330873. Col. No. P-587. Seed white. Head 18 cm. long. Glumes cover $\frac{1}{3}$ of seed, sienna, awnless.

From Village of Pokomo. Elevation below 530 m.

330874. Col. No. P-589. Local name Akwuu or Shwaap tong. Collected by American Mission at Pokwo, Gambela. On Baro River about 30 km. down from Gambela. Seed pearly white. Glumes black.

330875. Col. No. P-590. Local name Bomo Obonga. Seed chalky white. Pericarp tinted. Glumes black. Sorghum said to be main staple of Anuak people. Easier to prepare for food than corn.

330876. Col. No. P-591. Local name Lwaali. Collected by American Mission at Pokwo. Seed reddish brown. Glumes cover $\frac{1}{2}$ of seed, black.

330877. Col. No. P-592. From between Robi and Fiche near Mt. Badda. Elevation 650 m. Collected by Stanford Research Institute. Plant 2.1 to 2.7 m. tall. Seed brown. Head open, 20 cm. long. Glumes cover $\frac{1}{2}$ of seed, black, awned.

330878. Col. No. P-593. From between Robi and Fiche near Mt. Badda. Elevation, 2,400 m. Collected by Stanford Research Institute. Plant 2.1 to 2.7 m. tall. Seed brown. Head open, 15 cm. long. Glumes cover seed, pubescent, brown, awned.

From Lalibela market.

330879. Col. No. P-599. Seed yellow, red and brown.

330880. Col. No. P-600. Seed reddish brown.

330881. Col. No. P-601. Seed brown. Glumes black.

330882. Col. No. P-602. Seed yellow, brown and few red.

330883. Col. No. P-603. Seed reddish brown. Glumes black.

330884. Col. No. P-604. Seed yellow, red, brown and white. Teff mixed with sample.

330885. Col. No. P-605. Seed reddish brown.

From Axum market. Elevation 2,100 M.

330886. Col. No. P-609. Seed white, yellow and brown mixed.

330732 to 330921—Continued

330887. Col. No. P-610. Seed white and reddish brown mixed.
 330888. Col. No. P-611. Seed white, few reddish brown.
 330889. Col. No. P-612. Seed mostly yellow.
 330890. Col. No. P-613. Seed yellow to tan. Glumes covering seed, white.
 330891. Col. No. P-614. Seed white, yellow and reddish brown mixed.
 330892. Col. No. P-615. Seed mixed.
 330893. Col. No. P-616. Seed white, red to brown mixed.
 330894. Col. No. P-617. Seed mostly white but mixed.
 330895. Col. No. P-618. Seed small, brown. Glumes covering seed, mahogany to reddish brown.
 330896. Col. No. P-619. Seed yellow, tan, few small reddish brown mixed.
 330897. Col. No. P-620. Seed yellow to tan. Glumes nearly covering seed, straw.
 330898. Col. No. P-621. Seed mixed.
 330899. Col. No. P-622. Seed white with few yellow and brown mixed.
 330900. Col. No. P-623. Seed small, reddish brown.
 330901. Col. No. P-624. Seed white, few reddish brown.
 330902. Col. No. P-625. Seed yellowish tan.
 330903. Col. No. P-626. Seed white, few reddish brown.
 330904. Col. No. P-627. Seed mixed.
 330905. Col. No. P-628. Seed few white, yellow and reddish brown mixed.

From Asmara market.

330906. Col. No. P-632. Seed yellow with a few reddish brown.
 330907. Col. No. P-633. Seed white.
 330908. Col. No. P-634. Seed white and reddish brown mixed.
 330909. Col. No. P-635. Seed yellowish tan. Glume mixed color.
 330910. Col. No. P-636. Seed white and reddish mixed.
 330911. Col. No. P-637. Seed yellow, few reddish brown.
 330912. Col. No. P-638. Seed chalky white with dark subcoat.
 330913. Col. No. P-639. Seed reddish dark brown. Glumes black.
 330914. Col. No. P-640. Seed large, orange. Glumes black.
 330915. Col. No. P-641. Seed mixed.
 330916. Col. No. P-642. Seed yellowish white.
 330917. Col. No. P-643. Seed yellow, few red.
 330918. Col. No. P-644. Seed white.
 330919. Col. No. P-645. Seed yellowish tan.
 330920. Col. No. P-646. Seed yellow, red and few brown mixed.
 330921. Col. No. P-647. Seed white.

330922. ARUNDINARIA ANCEPS Mift. Gramineae.

From Royal Botanic Garden, Kew, Richmond, Surrey, England. Numbered June 4, 1968.

330923 to 330932.

From France. Plants presented by F. Delsunay, Angers. Numbered June 14, 1968.

330923. *DANAE RACEMOSA* (L.) Moench Liliaceae.

330924. *HEDERA CANARIENSIS* Willd. Araliaceae.

'Sir de Marengo'.

330925. *HEDERA COLCHICA* Koch

Colchis Ivy.

330926. *HEDERA COLCHICA* var. *DENTATA* Hibb.

'Aurea Striata'.

330927. *HEDERA HELIX* L.

English ivy.

'Microphylla Variegata'.

330928. *HEDERA HELIX* f. *ARBORESCENS* (Loud.) Schneider

330929. *HEDERA HELIX* var. *POETICA* Weston

330930. *HEDYSARUM MULTIJUGUM* Mavim. Leguminosae.

Sweetvetch.

330931. *IRIS FOETIDISSIMA* L. Iridaceae.

Gladwin iris.

Variegated form.

330932. *IRIS PSEUDACORUS* L.

Yellowflag iris.

330933 to 330949.

From Japan. Plants presented by Michio Matsuoka. The Botanical Garden of Osaka City University, Katano, Kitakawachi, Osaka. Numbered June 14, 1968.

330933 and 330934. *HEMEROCALLIS* × *AURANTICA* Baker Liliaceae.

Orange daylily.

330933. Cultivated.

330934. Tsushima Island, Nagasaki.

330935. *HEMEROCALLIS CITRINA* Baroni

Citron daylily.

From Peking. Cultivated.

330936. *HEMEROCALLIS DUMORTIERI* Morr.

Cultivated.

330937. *HEMEROCALLIS EXALTATA* Stout

From Tobishima, Yamagata.

330938 to 330940. *HEMEROCALLIS FULVA* L.

330938. From China.

330939. From Northern Thailand. Evergreen foliage.

330940. 'Sempervirens'. Anami-oshima, Kagoshima.

330941. *HEMEROCALLIS FULVA* var. *DISTICHA* (James Donn) Baker

From Takayama, Gifu.

330942 and 330943. *HEMEROCALLIS FULVA* var. *KWANSO* Regel

330942. Cultivated. Leaves white striped.

330943. From Fan, Thailand.

330944. *HEMEROCALLIS HAKUNENSIS* Nakai

From Korea.

330945. *HEMEROCALLIS LITTOREA* Makino

From Ashizurimisaki, Kochi.

330933 to 330949—Continued

330946 and 330947. *HEMEROCALLIS MIDDENDORFFII* var. *ESCULENTA* (Koidz.)
Ohwi

330946. From Hokkaido.

330947. From Kamikochi, Nagano.

330948. *HEMEROCALLIS VESPERTINA* Hara

From Shirahama, Wakayama.

330949. *HEMEROCALLIS YEZOENSIS* Hara

From Hokkaido.

330950. *PUERARIA TONKINENSIS* Gapnep. Leguminosae.

From Taiwan. Seed presented by Chia Huang, Joint Commission on Rural Reconstruction, Taipei. Numbered June 14, 1968.

330951 to 330955.

From Ireland. Seed presented by The Earl of Rosse, Birr Castle, Offaly. Numbered June 14, 1968.

330951. *ABIES KAWAKAMII* Hayata Pinaceae. Fir.

330952. *ABIES SPECTABILIS* Lambert ex Spach Himalayan fir.

330953. *PICEA ASPERATA* Masters. Pinaceae.

330954. *PICEA SMITHIANA* (Wall.) Boiss.

330955. *TILIA DASYSTYLA* Stev. Tiliaceae.

330956. *LYCOPERSICON ESCULENTUM* L. Solanaceae. **Tomato.**

From Colombia. Seed presented by Franco Borello, Conservas California de Baranquilla, Baranquilla. Numbered June 14, 1968.

'Santa Rosa'.

330957 to 330960. *TRITICUM AESTIVUM* L. Gramineae. **Common wheat.**

From New Zealand. Seed presented by G. M. Wright, Department of Scientific and Industrial Research, Private Bag, Christchurch. Numbered June 14, 1968.

330957. 'Festiguay'. **330959.** 'Raven'.

330958. 'Mendos'. **330960.** 'Triple Dirk'.

330961. *GLYCINE TOMENTELLA* Hayata Leguminosae.

From the Philippines. Seed collected by J. V. Pancho, University of Philippines, Laguna. Numbered June 14, 1968.

Col. No. 6285. Bataan Island. On littoral rocky wayside.

330962. *TRITICUM AESTIVUM* L. Gramineae. **Common wheat.**

From Rhodesia. Seeds presented by Salisbury Research Station, Causeway, Salisbury. Numbered June 14, 1968.

S891A3.

330963 and 330964.

From Afghanistan. Seed collected in Kabul by Robert R. Shaw, Dallas, Texas. Numbered June 14, 1968.

330963. *CUCUMIS MELO* L. Cucurbitaceae. Muskmelon.

330964. *RAPHANUS SATIVUS* L. Cruciferae. Radish.

330965. SECALE CEREALE L. Gramineae. Rye.

From Germany. Seed presented by R. O. K. Von Sengbusch, Max-Planck Institut for Kulturpflanzenzuchtung, Hamburg-Volksdorf. Numbered June 14, 1968.

'Petkus'. Diploid form.

330966 and 330967. ARACHIS HYPOGAEA L. Leguminosae.

From Uganda. Seed presented by Senior Research Officer, Serere Research Station, Soroti. Numbered June 14, 1968.

330966. Strain 279. Introduced into Uganda 1963 as Georgia selection 119-20. Brown skinned, spreading type.

330967. Strain 295. Introduced into Uganda 1962 from Bambey, Senegal. Extremely resistant to rosette under local tests. Low yielding; variety 52-11.

330968 to 331000. SORGHUM BICOLOR (L.) Moench Gramineae.

From Uganda. Seed collected by L. V. Peters, Crops Research Division, United States Department of Agriculture, Serere Experiment Station, Soroti. Numbered June 17, 1968.

330968. Col. P-218. Eighty miles north of Mbale.

330969. Col. P-223. Mbale market.

330970. Col. P-229. Thirty-seven miles south of Gulu.

330971. Col. P-234. Thirty miles northeast of Gulu.

330972. Col. P-239. Forty-six miles west of Kitgum.

330973. Col. P-243. Thirty miles northwest of Attiak.

330974. Col. P-244. Thirty miles northwest of Attiak.

330975. Col. P-250. Twenty-four miles west of Gulu.

330976. Col. P-256. Thirty miles west of Pakwach.

330977. Col. P-257. One mile east of Nebbi, 31 miles west of Pakwach.

330978. Col. P-260. Batiaba.

330979. Col. P-262. Ten miles north of Hoima.

330980. Col. P-266. Kitoba market.

330981. Col. P-269. Kitoba market.

330982. Col. P-271. Kitoba market.

330983. Col. P-280. Sixty-two miles northwest of Kampala.

330984. Col. P-288. Busembatia market.

330985. Col. P-295. Sixty miles west of Masaka.

330986. Col. P-303. Muhanga market (Kigezi).

330987. Col. P-305. Kanaba Gap. Elevation 8,000 feet.

330988. Col. P-306. Rubardalo (Kigezi).

330989. Col. P-307. Rubardalo (Kigezi).

330990. Col. P-308. Rubardalo (Kigezi).

330991. Col. P-309. Ten miles northwest of Kabale.

330992. Col. P-311. Mburamezi, 35 miles north of Kabale.

330993. Col. P-323. Kihihi.

330994. Col. P-325. Four miles south of Kasese.

330995. Col. P-329. Ft. Portal market.

330968 to 331000—Continued

330996. Col. P-330. Ft. Portal market.
 330997. Col. P-332. Forty-eight miles east of Ft. Portal.
 330998. Col. P-333. Forty-eight miles east of Ft. Portal.
 330999. Col. P-335. Mubende.
 331000. Col. P-337. Mityana.

331001 to 331031.

From the Union of Soviet Socialist Republics. Seeds presented by Main Botanic Garden, Academy of Sciences, Moscow. Numbered June 17, 1968.

Originally from Batumi Botanic Garden, Georgian Soviet Socialist Republic, Caucasus.

331001. *ILEX AQUIFOLIUM* L. Aquifoliaceae. English holly.
 331002. *ILEX CASSINE* Walt. Dahoon.
 331003. *ILEX CORNUTA* Lindl. & Paxt. Chinese holly.
 331004. *ILEX CRENATA* Thunb. Japanese holly.
 331005. *ILEX LATIFOLIA* Thunb. Luster leaf holly.
 331006. *ILEX PERADO* Ait.
 331007. *PYRACANTHA CRENULATA* (D. Don) Roemer Rosaceae. Nepal firethorn.
 331008. *RHODODENDRON LUTEUM* Sweet Ericaceae.
 331009. *RHODODENDRON PONTICUM* L. Pontic rhododendron.
 331010. *VIBURNUM CORIACEUM* Blume Caprifoliaceae.
 331011. *VIBURNUM DILATATUM* Thunb. Linden viburnum.
 331012. *VIBURNUM JAPONICUM* (Thunb.) Spreng.
 331013. *VIBURNUM TINUS* L. Laurustinus.
 Originally from Sukhumi Botanic Garden, Georgian Soviet Socialist Republic, Caucasus.
 331014. *PYRACANTHA CRENULATA* (D. Don) Roemer Rosaceae. Nepal firethorn.
 331015. *RHODODENDRON LUTEUM* Sweet Ericaceae.
 331016. *VIBURNUM DILATATUM* Thunb. Caprifoliaceae. Linden viburnum.
 331017. *VIBURNUM HUPEHENSE* Rehder Hupeh viburnum.
 331018. *VIBURNUM JAPONICUM* (Thunb.) Spreng.
 331019. *VIBURNUM RHYTIDOPHYLLUM* Hemsl. Leatherleaf viburnum.

Originally from Baku Botanical Institute, Azerbaidzhan Soviet Socialist Republic.

331020. *PYRACANTHA COCCINEA* Roemer Rosaceae.
 331021. *PYRACANTHA CRENULATA* var. *KANSUENSIS* Rehder
 331022. *VIBURNUM JAPONICUM* (Thunb.) Spreng. Caprifoliaceae.
 331023. *VIBURNUM OPULUS* L.

Originally from Nikita Botanic Garden, Yalta, Crimea.

331024. *CARYOPTERIS TANGUTICA* Maxim. Verbenaceae. Bluebeard.
 331025. *CERCIS SILIQUASTRUM* L. Leguminosae. Judas-tree.
 331026. *ILEX AQUIFOLIUM* L. Aquifoliaceae. English holly.
 331027. *ILEX AQUIFOLIUM* f. *HETEROPHYLLUM* Ait.

331001 to 331031—Continued

331028. PYRACANTHA CRENULATA f. FLAVUM Anon. Rosaceae.
 331029. VIBURNUM ODORATISSIMUM Ker-Gawl. Caprifoliaceae. Sweet viburnum.
 331030. VIBURNUM RHYTIDOPHYLLUM Hemsl. Leatherleaf viburnum.
 331031. VIBURNUM TINUS L. Laurustinus.

331032. HIBISCUS sp. Malvaceae.

From Mauritius. Seed presented by R. E. Vaughn, Sugar Industry Research Institute, Reduit. Numbered June 17, 1968.

Grown in the Cunepips Gardens.

331033 to 331064.

From India. Seed presented by A. K. Sharma, University of Calcutta, Calcutta, under P.L. 480 project A7-CR-102. Collected in Eastern Himalayas. Numbered June 18, 1968.

331033. ASTILBE RIVULARIS Buch.-Ham. ex D. Don Saxifragaceae.
 331034. CLEMATIS BUCHANIANA DC. Ranunculaceae.
 331035. CLEMATIS CONNATA DC.
 331036. CLEMATIS GRATA Wall. Himalayan clematis.
 331037. CLEMATIS MONTANA Buch.-Ham. ex DC. Anemone clematis.
 331038. HYDRANGEA ROBUSTA Hook. f. & Thoms. Saxifragaceae.
 331039. IRIS ENSATA Thunb. Iridaceae. Russian iris.
 331040. IRIS SPURIA subsp. AUREA (Lindl.) Dykes
 331041. LACTUCA HASTATA DC. Compositae.
 331042. LILIUM GIGANTEUM Wall. Liliaceae. Giant lily.
 331043. LILIUM NEPALENSE D. Don Nepal lily.
 331044. LILIUM WALLICHIANUM Schult. f. Wallich lily.
 331045. PRIMULA CAPITATA Hook. Primulaceae. Purplehead primrose.
 331046. PRIMULA DENTICULATA J. E. Smith Himalayan primrose.
 331047. PRIMULA GERANIFOLIA Hook. f.
 331048. PRIMULA IANTHINA J. B. Balfour & Cave
 331049. PRIMULA INVOLUCRATA Wall. ex Naudin Pinnacle primrose.
 331050. PRIMULA JAPONICA A. Gray Japanese primrose.
 331051. PRIMULA NUTANS Delav. ex Franch. Sleepy primrose.
 331052. PRIMULA OBCONICA Hance Top primrose.
 331053. PRIMULA OBTUSIFOLIA Royle Bluntleaf primrose.
 331054. PRIMULA POLYANTHA Mill.
 331055. PRIMULA PROLIFERA Wall.
 331056. PRIMULA RETICULATA Wall.
 331057. PRIMULA ROTUNDIFOLIA Wall. ex Roxb.
 331058. PRIMULA SAPPHIRINA Hook. f. & Thoms. ex Watt
 331059. PRIMULA SIKKIMENSIS Hook. Sikkim primrose.
 331060. PRIMULA SINENSIS Sabine
 331061. PRIMULA SMITHIANA Craib
 331062. PRIMULA STUARTII Wall.

331033 to 331064—Continued

331063. SOLANUM KHASIANUM C. B. Clarke Solanaceae.

331064. VIBURNUM ERUBESCENS Wall. ex DC. Caprifoliaceae.

331065 to 331071.

From Japan. Seed presented by Homiki Uyeki, Agricultural College, Ehime University, Matuyama. Numbered June 18, 1968.

331065. ARDISIA CRISPA (Thunb.) A. DC. Myrsinaceae.

331066. CRYPTOMERIA JAPONICA (L.f.) D. Don Pinaceae.

Common cryptomeria.

331067. HIBISCUS MUTABILIS L. Malvaceae.

Cotton rosemallow.

331068. ILEX CORNUTA Lindl. & Paxt. Aquifoliaceae.

Chinese holly.

331069. ILEX ROTUNDA Thunb.

331070. LIGISTRUM LUCIDUM Ait. Oleaceae.

Glossy privet.

331071. MACROCARPIUM OFFICINALE Nakai Cornaceae.

331072 to 331082.

From Japan. Seed presented by Botanical Garden, Tohoku University, Sendai. Numbered June 18, 1968.

331072. CARPINUS CORDATA Blume Betulaceae.

331073. CARPINUS JAPONICA Blume

331074. CARPINUS LAXFLORA Blume

331075. CARPINUS TSCHONOSKII Maxim.

331076. CHIONANTHUS RETUSUS Lindl. Oleaceae.

Chinese fringetree.

331077. FIRMIANA SIMPLEX (L.) W. F. Wight Sterculiaceae.

Chinese parasoltree.

331078. FRAXINUS SIEBOLDIANA Blume Oleaceae.

Ash.

331079. MISCANTHUS SACCHARIFLORUS (Maxim.) Hack. Gramineae.

Silvergrass.

331080. SOPHORA FLAVESCENS var. ANGUSTIFOLIA (Sieb. & Zucc.) Kitag. Leguminosae.

331081. TILIA JAPONICA (Miquel) Simonk. Tiliaceae. Japanese linden.

331082. TILIA MAXIMOWICZIANA Shiras.

331083 to 331096.

From the Union of Soviet Socialist Republics. Seed presented by Botanical Garden, Subtropical Research Station, Sochi. Received June 18, 1968.

331083. CERCIS CANADENSIS L. Leguminosae.

American redbud.

331084. CERCIS CHINENSIS Bunge

331085. CERCIS SILIQUASTRUM L.

Judas-tree

331086. ILEX AQUIFOLIUM L. Aquifoliaceae.

English holly.

331087. ILEX CORNUTA Lindl. & Paxt.

Chinese holly.

331088. ILEX CRENATA Thunb.

Japanese holly.

331089. ILEX LATIFOLIA Thunb.

Luster leaf holly.

331090. RHODODENDRON LUTEUM Sweet Ericaceae.

331091. RHODODENDRON PONTICUM L.

Pontic rhododendron.

331092. VIBURNUM ACERIFOLIUM L. Caprifoliaceae.

331093. VIBURNUM CARLESII Hemsl.

Fragrant viburnum.

331083 to 331096—Continued331094. *VIBURNUM JAPONICUM* (Thunb.) Spreng.331095. *VIBURNUM OPULUS* L.

European cranberry bush.

331096. *VIBURNUM RHYTIDOPHYLLUM* Hemsl.

Leatherleaf viburnum.

331097 to 331099. VIGNA SINENSIS (Torner) Savi Leguminosae.
Common cowpea.

From Mali. Seed collected in Bandiagara Market by Jack Harlan, Department of Agronomy, University of Illinois, Urbana, Illinois. Received June 18, 1968.

Components based on color sorted from mixed sample.

331097. No. 1. White, dark eye.

331098. No. 2. Brown.

331099. No. 3. White, speckled grey.

331100. LATHYRUS CICERA L. Leguminosae. **Flat peavine.**

From Greece. Seed presented by the Director, Institute for Fodder Crops, Larissa. Received June 18, 1968.

Foundation seed of variety L-121.

331101 to 331140.

From Uruguay. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Georgia. Numbered June 18, 1968.

331101. *ANDROPOGON SCOPARIUS* Michx. Gramineae.

Little bluestem.

Col. No. 43. Guariyu arroyo on Route 3, south of Salto. Bunch plant to 1.2 m. high, very leafy.

331102. *AXONOPUS COMPRESSUS* (Swartz) Beauv. Gramineae.

Tropical carpetgrass.

Col. No. 34. Twelve km. east of Colonia, 40 km. from Rio de la Plata.

331103 and 331104. *BOTHRIOCHLOA LAGUROIDES* (DC.) Herter Gramineae.

331103. Col. No. 39. Route No. 2 at Km. 269.5. Bunch type plants, 40 cm. high, growing in natural stand of *Paspalum* and *Bothriochloa* species.

331104. Col. No. 64. Route No. 5. Km. marker 281 south of Peralta. Plants 61 to 76 cm. Dominant plant in pasture mixture.

331105. *CHLORIS* sp. Gramineae.

Col. No. 48. Along roadside Route No. 3 at Km. 458.3 south of Salto.

331106. *CITRULLUS LANATUS* (Thunb.) Mansf. Cucurbitaceae.

Watermelon.

Col. No. 29. Route No. 5, 74 km. north of Tacuarembó. Fruit round, 20 cm. in diameter, flesh red, rind green, seed black.

331107. *DESMODIUM* sp. Leguminosae.

Col. No. 54. Araujo arroyo, Route No. 26. Low growing, to 25 cm. high, erect.

331108. *ERYTHRINA CRISTA-GALLI* L. Leguminosae.

Coraltree.

Col. No. 32. 'Ceibo'. Playa Arenisca, Colonia. Tree 3.6 to 6.0 m. high; flowers bright red.

331109. *GALACTIA MARGINALIS* Benth. Leguminosae.

Col. No. 57. Twenty-six km. east of Route 3 on Route 26. Growing in dense stand of bahiagrass.

331101 to 331140—Continued

331110. *INDIGOFERA* sp. Leguminosae.

Col. No. 31. Fourteen km. northwest of Colonia, 100 m. from Rio de la Plata. Shrub 1.0 m. high; branches many, spreading.

331111. *LEPTOCORYPHIUM LANATUM* Nees Gramineae.

Col. No. 49. Six km. east of Route 3 on Route 26. Plants 1.2 m. high; bunch type.

331112 and 331113. *PASPALUM DILATATUM* Poir. Gramineae. Dallisgrass.

331112. Col. No. 63. Route 5, south of Peralta. Km. 281.

331113. Col. No. 66. Km. 314 marker on Route 5 near Pampa. Small type.

331114 to 331123. *PASPALUM NOTATUM* Fluegge. Bahiagrass.

331114. Col. No. 30. Playa Arenisca, 8 km. northwest of Colonia, on beach of Rio de la Plata.

331115. Col. No. 38. Plants growing along Route 2, 6.5 km. east of Mercedes, Soriano Department, at Km. 269.5 marker.

331116. Col. No. 42. Guaviya arroya on Route 3, south of Salto. Robust ecotype with long racemes.

331117. Col. No. 45. Twelve km. south of Sato on Route 3.

331118. Col. No. 46. One km. south of confluence of Arroya San Antonio and Rio Uruguay, in heavily grazed area, near Salto.

331119. Col. No. 52. Arroya Aranjó on Route 26.

331120. Col. No. 61. Football field, Rivera. Small form of bahiagrass.

331121. Col. No. 65. Km. 314 on Route 5.

331122. Col. No. 67. Near Pampa, Km. 314 marker on Route 5.

331123. Col. No. 68. Km. 314 on Route 5.

331124. *PASPALUM PAUCICILIATUM* (Parodi) Herter

Col. No. 53. Route 26, 6 km. east of Route 3. Prostrate type of growth. Sod forming.

331125. *PASPALUM PLICATULUM* Michx. Brownseed paspalum.

Col. No. 44. Twelve km. south of Salto.

331126. *PASPALUM PUMILUM* Nees

Col. No. 62. Eight km. west of Route 5 on Route 30. Plant 24.4 cm high; leaves 0.6 cm. wide; growth prostrate.

331127. *PASPALUM QUADRIFARIUM* Lam.

Col. No. 47. Six km. east of Route 3 on Route 26. To 1.2 m. high; robust, coarse leaf. Erect bunch type.

331128. *PASPALUM STELLATUM* Humb. & Bonpl.

Col. No. 60. Ten km. south of Rivera.

331129. *PASPALUM* sp.

Col. No. 35. Near Rio de la Plata, 14 km., east of Colonia. Sand dunes. Plants 38.0 cm. high; bunch type.

331130. *PASPALUM* sp.

Col. No. 40. Along Route 2 at Km. 269.5. Low-growing prostrate plants; 20 cm. high.

331101 to 331140—Continued

331131. *PENNISETUM LATIFOLIUM* Spreng. Gramineae.

Col. No. 59. Route 26, 6 km. east of Route 3. Plants 1.2 m. high. Perennial bunchgrass.

331132. *RHYNCHOSIA* sp. Leguminosae.

Col. No. 50. Route 26, 6 km. east of Route 3. Plants low, erect; abundant in natural stand of *Paspalum* species.

331133. *RHYNCHOSIA* sp.

Col. No. 51. Route 26, 20 km. east of Route 3. Low growing, leafy.

331134. *SESBANIA* sp. Leguminosae.

Col. No. 33. Growing on sand dune along Rio de la Plata, 10 km. northwest of Colonia. Shrub 3 m. high.

331135. *SESBANIA* sp.

Col. No. 37. Twelve km. east of Colonia, near Rio de la Planta. Perennial shrub, 1.5 m. high. Branches many, spreading.

331136 and 331137. *SETARIA CAESPITOSA* Hack. & Arech. Gramineae.

331136. Col. No. 41. Route 2 at Km. 269.5. Plants erect, bunch type, 50 cm. high.

331137. Col. No. 55. Arroya Araujo, Route 26, 6 km. east of Route 3. Erect bunchgrass; 50 cm. high.

331138. *SETARIA FIEBRIGII* Herrm.

Col. No. 56. Route 26, 6 km. east of Route 3.

331139. *SETARIA GLOBULIFERA* (Steud.) Griseb.

Col. No. 58. Route 26, 6 km. east of Route 3.

331140. *SOLANUM SISYMBRIFOLIUM* Lam. Solanaceae.

Col. No. 28. Local name Revienta Caballo; Tutia. East bank Rio Uruguay at Salto. Plants 1.2 m. high; thorns many; fruit red, 1.27 cm. diameter.

331141 to 331144. *VIGNA SINENSIS* (Torner) Savi Leguminosae.
Common cowpea.

From Nigeria. Seeds presented by Kenneth Kopf, United States Agency for International Development, Lagos. Received June 20, 1968.

331141. Gbira. Local. 331143. Large white. Local.

331142. Large brown. Local. 331144. 6956-2A.

331145. *CARTHAMUS TINCTORIUS* L. Compositae. **Safflower.**

From the Union of Soviet Socialist Republics. Seed presented by All-Union Institute of Plant Industry, Leningrad. Received June 20, 1968.

'Milyutin's 114'. Forage type. From Uzbekistan.

331146 to 331151. *HORDEUM VULGARE* L. Gramineae.

From Canada. Seed presented by B. L. Harvey, University of Saskatchewan, Saskatoon. Originally from the Soviet Union. Numbered June 21, 1968.

331146. H Hor 3340/65. 331149. H Hor 3421/65A.

331147. H Hor 3378/65A. 331150. H Hor 3422/65A.

331148. H Hor 3417/65A. 331151. H Hor 3472/65A.

331152 and 331153.

From the United States. Seed grown at Regional Plant Introduction Station, Ames, Iowa. Numbered June 21, 1968.

331152 and 331153—Continued

331152. *AEGILOPS SQUARROSA* L. Gramineae.

Component of P.I. 317400.

331153. *AEGILOPS TRIUNCIALIS* L.

Barb goatgrass.

Component of P.I. 317398.

331154 to 331160.

From Argentina. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Station, Tifton, and Experiment, Georgia. Numbered June 24, 1968.

331154. *CYNODON HIRSUTUS* Stent Gramineae.

Col. No. 71. Boxcar cleaning station on railroad right-of-way 8 km. west of Manfredi, near Km. 642 on Route 9. Prostrate, stoloniferous, sod-forming; 10 cm. high. Seed heads few.

331155. *PAPPOPHORUM* sp. Gramineae.

Col. No. 69. Road bank near Km. 640 on Route 9, west of Manfredi. To 1.5 m. high; stems coarse.

331156. *PASPALUM NOTATUM* Fluegge. Gramineae.

Bahiagrass.

Col. No. 86. Km. 644 on Route 9, west of Manfredi. Plants 76.20 cm. high, perennial, stoloniferous; stems coarse.

331157. *PASPALUM URVILLEI* Steud.

Vaseygrass.

Col. No. 87. Km. 644 on Route 9, west of Manfredi, near railroad right-of-way. Perennial, leafy bunchgrass; stems coarse.

331158. *PASPALUM* sp.

Col. No. 89. Km. 639 on Route 9, west of Manfredi. Perennial, prostrate, low growing; stems fine.

331159. *SETARIA ARGENTINA* Herrm. Gramineae.

Col. No. 68A. Road bank near Km. 641 on Route 9, 5 km. west of Manfredi. Leafy bunchgrass to 1 m. high; heavy seeder, spikes 13 cm. long.

331160. *STIPA HYALINA* Nees Gramineae.

Col. No. 70. Near railroad right-of-way, 8 Km. west of Manfredi on Route 9. Leafy bunchgrass, to 51 cm. high; leaves narrow, tough.

331161. DOMBEYA SCHIMPERIANA A. Rich. Sterculiaceae.

From Ethiopia. Seed collected by Robert E. Perdue, Jr., Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered June 24, 1968.

Col. No. 9602. Along Dodola Road, 15 km. east of Shashemene-Negele Road, Arusi Province. Common tree to 2.0 m. high, 76 cm. diameter breast high.

331162 to 331164.

From the United States. Plants grown at United States Plant Introduction Station, Miami, Florida. Numbered June 24, 1968.

331162 and 331163. *DOMBEYA BURGESSIAE* Gerrard Sterculiaceae.

331162. M-13674.

331163. M-18317.

331164. *MACHAERIUM ACULEATUM* Raddi Leguminosae.

M-11535. Original seed collected in Brazil, February 1944. Multiple-stem tree to 20 feet high.

331165. LESQUERELLA FENDLERI Wats. **Cruciferae.**

From the United States. Seed collected by Arthur S. Barclay, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered June 24, 1968.

Col. No. 2097. Along U. S. Highway 70, 11 miles northwest of Bylas, Graham County, Ariz. Elevation 2,750 feet. Abundant on caliche hills; plants selected for erect habit, capsule size, productivity.

331166. FICUS CARICA L. **Moraceae.** **Common fig.**

From India. Cuttings presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Numbered June 24, 1968.

'Poona Local'.

331167 to 331183.

From Argentina. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Obtained from Instituto Nacional de Tecnologia Agropecuaria, Manfredi. Numbered June 24, 1968.

331167. AGROPYRON SCABRIFOLIUM (Doell) Parodi **Gramineae.**

Col. No. 91. Perennial bunchgrass, 0.9 m. high, erect.

331168. AGROPYRON SCABRIGLUME (Hack.) Parodi.

Col. No. 92. Bunchgrass, 0.9 m. high, erect; stems coarse.

331169. BROMUS AULETICUS Trin. ex Nees **Gramineae.**

Col. No. 93.

331170. BROMUS BREVIS Steud.

Col. No. 95.

331171. BROMUS INTERMEDIUS Guss.

Col. No. 81. Originally from Cordoba. Bunchgrass to 1 m. high; prolific seeder.

331172. BROMUS UNIOLOIDES HBK.

Col. No. 94.

331173. ERAGROSTIS CURVULA (Schrad.) Nees **Gramineae.**

Weeping lovegrass.

Col. No. 88. Perennial bunchgrass, 50 to 80 cm. high. Very leafy, tough.

331174 to 331176. HELIANTHUS (hybrids) **Compositae.**

331174. Col. No. 73. 'Cordobes INTA'. ('Saratov' × 'Klein') × wild *Helianthus annuus*). Maturity 105 days. Commercial variety.

331175. Col. No. 74. 'Impira INTA'. (*Helianthus argophyllus* × 'Saratov'). Maturity 115 days.

331176. Col. No. 75. 'Manfredi INTA'. ('Saratov' × 'Klein') × wild *Helianthus annuus*). Maturity 125 days. Commercial variety.

331177. LOTUS CORNICULATUS L. **Leguminosae.** **Birdsfoot trefoil.**

Col. No. 83. Originally from Cordoba. Semiprostrate; to 30.48 cm. high; good seed producer. Seed shatters.

331178. MEDICAGO sp. **Leguminosae.**

Col. No. 84. Very decumbent, 7.6 cm. high.

331179. MEDICAGO sp.

Col. No. 85. 'Polyhybrida'. Annual, prostrate, 10 cm. high.

331167 to 331183—Continued

- 331180.** *PANICUM VIRGATUM* L. Gramineae. Switchgrass.
Col. No. 90. Perennial bunchgrass, erect, leafy; stems coarse.
- 331181.** *PHASEOLUS ACUTIFOLIUS* A. Gray Leguminosae.
Col. No. 79. Local name Tepari bean. Edible bean in field plots.
- 331182.** *SORGHUM BICOLOR* (L.) Moench Gramineae.
Col. No. 72. 'Granador INTA'. Obtained from Senor Parodi. Seed brown. Grown commercially in Manfredi area.
- 331183.** *VICIA DASYCARPA* Ten. Leguminosae. Woollypod vetch.
Col. No. 82.

331184 to 331201.

From Argentina. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Obtained from Instituto Nacional de Tecnologia Agropecuaria, Manfredi. Numbered June 25, 1968.

- 331184 and 331185.** *ARACHIS DIOGOTI* Hoehne Leguminosae.
All seed grown in 1966-67.
- 331184.** Col. No. 181. INTA 9835.
- 331185.** Col. No. 182. INTA 9841.
- 331186.** *ARACHIS HYPOGAEA* L.
Col. No. 96. Irradiated material. White testa. MF 65X MI. XI-43. Seed grown in 1967.
- 331187 and 331188.** *ARACHIS PARAGUARIENSIS* Chod. & Hassl.
- 331187.** Col. No. 187. INTA K.C. 11488. Seed grown 1965-66.
- 331188.** Col. No. 188. INTA K.C. 11462. Seed grown 1966-67.
- 331189.** *ARACHIS PUSILLA* Benth.
Col. No. 178. INTA 10038. Seed grown in 1966-67.
- 331190.** *ARACHIS RIGONII* A. Krapovickas & W. C. Gregory
Col. No. 184. INTA 10034. Seed grown in 1966-67.
- 331191 to 331195.** *ARACHIS VILLOSA* var. *CORRENTINA* Burkart
All seed grown in 1966-67.
- 331191.** Col. No. 173. INTA 7830.
- 331192.** Col. No. 174. INTA 7897.
- 331193.** Col. No. 175. INTA 9530 and 9531.
- 331194.** Col. No. 176. INTA 9548. Original local type.
- 331195.** Col. No. 186. INTA K.C. 12593.
- 331196 and 331197.** *ARACHIS VILLOSA* Benth.
All seed grown in 1966-67.
- 331196.** Col. No. 177. INTA 22585.
- 331197.** Col. No. 179. (No INTA number).
- 331198.** *ARACHIS* sp.
Col. No. 77. INTA 12404. Taprooted. Seed grown in 1966-67.
- 331199.** *ARACHIS* sp.
Col. No. 180. INTA 9812. Seed grown in 1965-66.

331184 to 331201—Continued

331200. *ARACHIS* sp.

Col. No. 183. INTA 10602. Seed grown in 1966-67.

331201. *ARACHIS* sp.

Col. No. 185. INTA 9993. Seed grown 1965-66.

331202 to 331206. ILEX (hybrids) Aquifoliaceae.

From the United States. Selections made by J. L. Creech and W. L. Ackerman at the United States Plant Introduction Station, Glenn Dale, Md. Numbered June 25, 1968.

Selections from an F_1 progeny resulting from a cross of *Ilex cornuta*, P.I. 65860 \times *I. ciliospinosa*, P.I. 78144 made in 1952.

331202. 'Albert Close'. Female evergreen shrub, compact, short, pyramidal, very short internodes, dense twiggy growth. Leaves deep green, semiglossy, spinose, ovate, $1\frac{1}{2}$ to $2\frac{1}{2}$ cm. long, 1 to $1\frac{1}{2}$ cm. wide, mostly 3 spines. Fruits red, round, peasize, pedicels short.

331203. 'William Cowgill'. Female evergreen shrub, compact, pyramidal. Leaves medium green, glossy, spinose, lanceolate, $2\frac{1}{2}$ to 4 cm. long, $1\frac{1}{4}$ to 2 cm. wide, mostly 7 spines. New growth pinkish, turning green. Fruits red, round, peasize, pedicels short, borne in clusters.

331204. 'Howard Dorsett'. Male evergreen shrub, compact, pyramidal. Leaves medium green, glossy, spinose, oblong lanceolate, 3 to 5 cm. long, $1\frac{1}{2}$ to 2 cm. wide, mostly 9 spines. New growth pinkish, turning green. Considered good companion plant to 'William Cowgill'.

331205. 'Edward Goucher'. Female evergreen shrub, compact, narrow columnar. Leaves deep green, glossy, spinose, lanceolate, $1\frac{3}{4}$ to $2\frac{1}{2}$ cm. long, $\frac{3}{4}$ to $1\frac{1}{4}$ cm. wide, mostly 7 spines. Fruits red, ovate, pea size, pedicels short, heavy bearing.

331206. 'Harry Gunning'. Male evergreen shrub, compact, globular. Leaves medium green, oblong lanceolate, 3 to $4\frac{1}{2}$ cm. long, $1\frac{1}{4}$ to $1\frac{3}{4}$ cm. wide, mostly 7 spines.

331207 to 331210.

From Hong Kong. Seed presented by Hong Kong Herbarium, Urban Council and Urban Services Department. Received June 25, 1968.

331207. *CELTIS SINENSIS* Pers. Ulmaceae. Chinese hackberry.
No. 225.

331208. *FRAXINUS RETUSA* Champ. ex Benth. Oleaceae.
No. 142.

331209. *RHODOLEIA CHAMPIONI* Hook. Hamamelidaceae.
No. 94.

331210. *STYRAX SUBERIFOLIA* Hook. & Arn. Styraceae.
No. 209.

331211. ILEX MITIS Radlk. Aquifoliaceae.

From the Republic of South Africa. Seed presented by National Botanic Gardens, Kirstenbosch, Newlands, Cape Province. Received June 25, 1968.

No. 372.

331212 to 331265.

From Ethiopia. Seed collected October-November 1967 by B. M. Leese and L. V. Peters, Crops Research Division, United States Department of Agriculture, Beltsville, Md., and K. O. Rachie, Rockefeller Foundation, New York, N.Y. Received June 25, 1968.

331212 to 331240. HORDEUM VULGARE L. Gramineae.

331212. Col. No. 63-B. Market in Harrar, Shoa Province. Six row type.

331213. Col. No. 117-B. Seventy-three km. west of Addis Ababa, Shoa Province. Plants one m. high; highly pigmented.

331214. Col. No. 125-B. Three km. west of Guder, Shoa Province. Heads two row; awns rough, pigmented.

Market in Asmara, Eritrea Province.

331215. Col. No. 288-B. Seed medium, yellow, gray and brownish black. Mixed with *Lolium temulentum*.

331216. Col. No. 289-B. Seed medium, dark gray, light and yellow. Mixed with *Lolium temulentum*.

331217. Col. No. 290-B. Seed medium, light gray.

331218. Col. No. 291-B. Seed yellow, dark and light gray.

331219. Col. No. 376-B. Local name Garbu. Seventy-four km. east of Shashamane, Shoa Province. Elevation 2,575 m. Mostly two row, covered, awns rough.

Thirteen km. east of Ababa, Bale Province. Elevation 3,500 m.

331220. Col. No. 384-B. Glumes and lemma pigmented; awns rough.

331221. Col. No. 387-B. Six row, covered; awns rough; pigmented veins in lemma.

331222. Col. No. 388-B. No data.

331223. Col. No. 420-B. Market in Soddo, Sidamo Province. Seed mixture, mostly two row. Mixed with *Lolium temulentum*.

331224. Col. No. 601-B. Forty km. south of Assella, Arussi Province. Elevation 2,500 m. Plants demonstrate varying degrees of resistance to rust. Heads 6 row, variously pigmented.

331225. Col. No. 687-B. Market in Jimma, Kaffa Province. Seed mixed. Maji, Kaffa Province. Elevation 2,130 m.

331226. Col. No. R-26. Six row; straw yellowish. Mixed with *Lolium temulentum*.

331227. Col. No. R-27. Seed large, black, naked. Mixed with *Lolium temulentum*.

331228. Col. No. R-56. Bedele, 300 km. west of Addis Ababa, Shoa Province. Slate gray.

Market in Debre Berhan, Shoa Province.

331229. Col. No. R-61. Mixture of types.

331230. Col. No. R-63. Mixture of types.

331231. Col. No. R-257. Market in Chuahe, Begemder Province. Lemmas yellow and dark gray. Mixed with *Lolium temulentum*.

Market in Addis Zennen, Begemder Province.

331232. Col. No. R-277. Lemmas dark gray. Mixed with *Lolium temulentum*.

331233. Col. No. R-281. Heads 2 row; lemmas white, yellow and black. Mixed with *Lolium temulentum*.

331212 to 331265—Continued

331212 to 331240—Continued

331234. Col. No. R-332. 101 km. south of Dejen, Shoa Province. Elevation 3,200 m. Heads 2 row; glume color variable.
Market in Chencho, Shoa Province.
331235. Col. No. R-346. Lemmas light yellow and gray.
331236. Col. No. R-347. Lemmas black.
331237. Col. No. P-65. Twenty km. north of Maichew, Tigre Province. Elevation 3,500 m. Heads 2 row; awns rough.
Adaba, Bale Province. Elevation 2,400 m. Local name Garbu. Rain-fall 674 mm. Soil heavy clay.
331238. Col. No. P-497. Two row, covered.
331239. Col. No. P-498. Two row, covered.
331240. Col. No. P-500. Seed mixed.

331241 to 331264. TRITICUM AESTIVUM L. Gramineae. Common wheat.
Market in Harrar, Shoa Province.

331241. Col. No. 57-B. Mixture of types. Mixed with *Sorghum bicolor* and *Lolium temulentum*.
331242. Col. No. 62-B. Mixture of types.
331243. Col. No. 64-B. Appears to be emmer. Mixed with *Hordeum vulgare*.

Market in Asmara, Eritrea Province. Local name Sinday.

331244. Col. No. 286-B. Seed medium, white and red. Mixed with *Lolium temulentum*.
331245. Col. No. 287-B. Seed medium large, wide. White.
Adaba, Bale Province. Elevation 2,600 m.
331246. Col. No. 377-B. Glumes and lemma pinkish; awns rugose.
331247. Col. No. 378-B. Heads somewhat flattened; seed elliptical; awns rugose.

Market in Soddo, Sidamo Province.

331248. Col. No. 421-B. Mixed with *Lolium temulentum*.
331249. Col. No. 423-B. Spring white type. Mixed with *Lolium temulentum*.
331250. Col. No. 427-B. Boditti, 40 km. west of Shasamane, Shoa Province. Mixed with *Lolium temulentum*.
331251. Col. No. 626-B. Ten km. south of Butajira, Shoa Province. Awned, clean, no disease.
331252. Col. No. 665-B. Market in Bilida, Kaca Province. Seed red. Mixed with *Lolium temulentum*.
331253. Col. No. 794-B. Cara, town near the Shembu Swamp, Wollega Province. Elevation 2,500 m. Volcanic soil. Wheat growing better than in any other place in Ethiopia.

Near Maji, Kaffa Province. Elevation 2,130 m.

331254. Col. No. R-24. Mixed with *Lolium temulentum*.
331255. Col. No. R-25. Mixed with *Hordeum vulgare*.
331256. Col. No. R-41. Gore, Illubabor Province. White, soft; spring type. Mixed with *Avena sativa* and *Lolium temulentum*.
Market in Debre Berhan, Shoa Province.

331212 to 331265—Continued**331241 to 331264—Continued**

331257. Col. No. R-70. Seed white; spring type.

331258. Col. No. R-74. Seed red and purple, pigmented. Mixed.

Market in Chancho, Shoa Province.

331259. Col. No. R-344. Mixed with *Lolium temulentum*.

331260. Col. No. R-345. Seed purplish red. Mixed with *Lolium temulentum*.

Adaba, Bale Province. Elevation 2,400 m. Rainfall 674 mm. Soil heavy or clayey. Local name Sinday.

331261. Col. No. P-493. Seed purple. Mixed with *Lolium temulentum*.

331262. Col. No. P-494. Mixed with *Avena sativa* and *Lolium temulentum*.

331263. Col. No. P-496. Mixed with *Avena sativa* and *Lolium temulentum*.

331264. Col. No. P-499. Mixed.

331265. TRITICUM SPELTA L.**Spelt.**

Col. No. 425-B. Boditti, 40 km. west of Shasamane, Shoa Province.

331266. ERAGROSTIS TEF (Zuccagni) Trotter Gramineae. Teff.

From Brazil. Plant collected by W. R. Langford and R. A. Hammons, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Obtained from Institute of Botany, Sao Paulo. Received July 3, 1968.

Originally from Africa. Ornamental plant used as border around walks.

331267 to 331339.

From Argentina. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Obtained from Instituto Nacional de Tecnologia Agropecuaria, Manfredi. Received July 5, 1968.

331267 to 331337. ARCHIS HYPOGAEA L. Leguminosae.

331267. Col. 80. Plot 604. Local name: Preto. Valencia. Testa black. Origin Brazil.

331268. Col. 101. 'Colorado Manfredi'. Valencia; common cultivar.

331269. Col. 102. Plot 3003. Mutation induced by irradiation. Plant small, compact; pods 3 segmented.

331270. Col. 103. Plot 3003. Mutation induced by irradiation. Plant small, compact; pods 3 segmented.

331271. Col. 106. Plot 3011. 'Colorado Manfredi' × 'Blanco Rio II' × 'Blanco Manfredi' × *A. monticola*. F₂ 1968.

331272. Col. 107. Plot 3011. F₂ 1968.

331273. Col. 108. Plot 3012. F₂ 1968.

331274. Col. 109. Plot 3012. Spreading Valencia.

331275. Col. 110. Plot 3013. Valencia. Pods 2 segmented. F₂ 1968.

331276. Col. 111. Plot 3014. Valencia.

331277. Col. 112. Plot 3014. Valencia. F₂ 1968.

331278. Col. 113. Plot 3015. Valencia. F₂ 1968.

331279. Col. 114. Plot 3016. F₂ 1968. One parent resistant to leaf spot.

331267 to 331339—Continued

331267 to 331337—Continued

331280. Col. 115. Plot 3016. Valencia. F₂ 1968.
331281. Col. 116. Plot 3017. Valencia. F₂ 1968.
331282. Col. 117. Plot 3018. Valencia. F₂.
331283. Col. 118. Plot 3019. Valencia.
331284. Col. 119. Plot 3020. Valencia. Stems purple. F₂ 1968.
331285. Col. 120. Plot 3020. Valencia.
331286. Col. 121. Plot 3021. F₂. For testa inheritance study.
331287. Col. 122. Plot 3021. F₂. For testa inheritance study.
331288. Col. 123. Plot 3022. F₂. For testa inheritance study.
331289. Col. 124. Plot 3025. Valencia. F₂. For testa inheritance study.
331290. Col. 125. Plot 3026. Valencia. F₂. For testa inheritance study.
331291. Col. 126. Plot 3026. F₂. Possibly tolerant to *Cercospora*.
331292. Col. 127. Plot 3027. Valencia hybrid. Tolerant to *Cercospora*.
331293. Col. 128. Plot 3027. Valencia-Virginia. F₂. Tolerant to *Cercospora*.
331294. Col. 129. Plot 3028. 'Colorado Manfredi' × 'Colorado Largo' × 'Virginia Bunch'. Virginia spreading-Valencia.
331295. Col. 130. Plot 3028. Virginia spreading-Valencia. F₂ 1968.
331296. Col. 131. Plot 3030. Virginia spreading. F₂.
331297. Col. 132. Plot 3030. Virginia bunch. Leafy; branches many; testa red. F₂.
331298. Col. 133. 'Manfredi Colorado' × Ga. 170-11-6-1. Bunch, short top; pods many. F₂ 1968.
331299. Col. 134. Plot 3047. Spanish-Valencia. F₂ 1968.
331300. Col. 135. Plot 3058. Virginia bunch. Pods small; branches many. F₁ intervarietal-interspecific hybrid.
331301. Col. 136. Selection from Cruceno. Valencia bunch. Testa red. Tolerant to *Cercospora*. Origin Bolivia.
331302. Col. 137. Plot 3060. Interspecific hybrid involving *A. monticola*. F₁ 1968.
331303. Col. 138. Plot 3067. Valencia-Virginia bunch from interspecific hybrid involving *A. monticola*. F₁ 1968.
331304. Col. 139. Plot 3075. Valencia-Virginia bunch from interspecific hybrid involving *A. monticola*. Pods larger than P.I. 331303. F₁ 1968.
331305. Col. 140. Plot 3098. Valencia-Virginia from interspecific cross involving *A. monticola*. F₁ 1968.
331306. Col. 141. Plot 3117. Valencia. From interspecific cross involving *A. monticola*. F₁ 1968.
331307. Col. 142. Plot 3143. Valencia bunch. Leafy; pods 3 segmented. Cross involving 'Overo' as one parent. F₁ 1968.
331308. Col. 143. Plot 3150. Valencia. Cross involving *Cercospora* tolerant germ plasm 'Overo'. F₁ 1968.
331309. Col. 144. Plot 3161. Valencia rummer. *A. monticola* in pedigree. F₁ 1968.

331267 to 331339—Continued

331267 to 331337—Continued

331310. Col. 145. Plot 3156. Valencia runner. Cross involving *Cercospera* tolerant germ plasm 'Overo'. F₄ 1968.
331311. Col. 146. Plot 3192. Valencia bunch. Testa maroon. From cross involving flesh, purple and red testa parents. F₄ 1968.
331312. Col. 147. Plot 3198. Valencia spreading. Testa purple; pods 3 to 4 segmented. For testa inheritance study.
331313. Col. 148. Plot 3203. 'Colorado Manfredi' × ('Blanco Rio II' × 'Veteado de Peru'). Valencia. Testa flesh with purple streaks. F₄ 1968.
331314. Col. 149. Plot 3279. Selection from 'Colorado Manfredi' × NC 335-2-2. Virginia bunch. Pods small. Tolerant to *Cercospora*. F₄ 1968.
331315. Col. 150. Plot 3300. 'Manfredi 68' × ('Blanco Rio II' × 'Veteado de Peru'). Virginia-Valencia bunch. Testa purple-streaked; pods 2 to 3 segmented. Tolerant to *Cercospora*. F₅ 1968.
331316. Col. 151. Plot 213. Local designation L.E. 39. Spanish bunch. Leafspots larger than normal. Seeds from 2 plants.
331317. Col. 152. Plot 232. 'Mac Span'. Spanish. Originally from Texas.
331318. Col. 153. Plot 233. Local designation Mf 44-S-14. Spanish. Manfredi selection from 'Mac Span' variety.
331319. Col. 154. Plot 234. 'Mac Span'. Spanish. Pods large. Probably from Australia.
331320. Col. 155. Plot 318. Spanish bunch. Testa white; medium maturity.
331321. Col. 156. Plot 319. 'Blanco Tipo II'. Spanish bunch. Testa white.
331322. Col. 157. Plot 320. Spanish bunch. Testa white.
331323. Col. 158. Plot 454. 'Porto Alegre'. Valencia. Testa purple; stem green, not purple.
331324. Col. 159. Plot 461. 'Campina V-52'. Valencia. Testa purple. Origin Campinas.
331325. Col. 160. Plot 466. Valencia. Testa purple; stem green.
331326. Col. 161. Plot 563. Runner. Testa white; seed white.
331327. Col. 162. Plot 566. 'Colorado-Largo'. Virginia-Valencia. Testa red, clear. Seed from two plants. Origin Bolivia.
331328. Col. 163. Plot 569. 'Colorado Largo'. Virginia runner. Testa red; leaves green. Medium late to late maturity. Origin Bolivia.
331329. Col. 164. Plot 577. 'Coripata'. Virginia runner-Valencia. Leaf spot tolerant. Origin Bolivia.
331330. Col. 165. Plot 580. 'Overo'. Virginia. Testa variegated, white on red. Tolerant to leaf spot. Origin Bolivia.
331331. Col. 166. Plot 583. 'Overo'. Virginia-Valencia. Testa red. Tolerant to leaf spot. Origin Bolivia.
331332. Col. 167. Plot 586. 'Overo'. Virginia runner. Testa red; pods medium size. Tolerant to leaf spot. Origin Bolivia.
331333. Col. 168. Plot 588. Virginia runner. Prostrate, testa deep red. Tolerant to leaf spot. Origin Bolivia.

331267 to 331339—Continued

331267 to 331337—Continued

331334. Col. 169. Plot 590. 'Criollo'. Prostrate; pods small; branches alternate; stem purple. Origin Bolivia.

331335. Col. 170. Plot 598. Extreme Valencia. Testa variegated, white with purple streaks; pods large. Origin Peru.

331336. Col. 171. Plot 615. 'Cuzco'. Prostrate; testa red. Origin Peru.

331337. Col. 172. Plot 628. Virginia. Prostrate. Tolerant to leaf leaf spot. Origin Bolivia.

331338 and 331339. ARACHIS MONTICOLA Krapovickas & Regoni

331338. Col. 104. Plot 3010. Prostrate, 3.5 m. diameter; pods 1 to 2 segmented; soil adheres. Isthmus between first and second segment of pod. Descended from original plant collected by Director Baez, Victor Regoni and A. Krapovickas in 1948.

331339. Col. 105. Plot 3010. Similar to P.I. 331338, but leaves larger; pods few. Plants less vigorous. *A. monticola* is highly variable in this nursery. Field nursery plot descended from original collection *A. monticola* by Regoni, Krapovickas and Baez in 1948.

331340 to 331360.

From Uganda. Seed collected by L. V. Peters, Crops Research Division, United States Department of Agriculture, Serere Experiment Station, Soroti. Received July 9, 1968.

331340. ACACIA sp. Leguminosae.

Col. P-212. Forty miles north of Moroto.

331341. ACACIA sp.

Col. P-213. Forty miles north of Moroto.

331342. ACACIA sp.

Col. P-216. One hundred five miles north of Mbale.

331343. ACACIA sp.

Col. P-217. Ninety-five miles north of Mbale.

331344. ACACIA sp.

Col. P-245. Thirty-five miles northwest of Attiak.

331345. CAJANUS CAJAN (L.) Millsp. Leguminosae. Pigeon-pea.

Col. P-219. Eighty miles north of Mbale.

331346. PANICUM MILIACEUM L. Gramineae. Proso millet.

Col. P-296. Mbarara market, north of Buganda.

331347. PANICUM sp.

Col. P-215. One hundred five miles north of Mbale.

331348 to 331353. PENNISETUM SPICATUM (L.) Willd. Gramineae.

Pearl millet.

331348. Col. P-222. Mbale market.

331349. Col. P-233. Gulu market.

331350. Col. P-235. Thirty-two miles northeast of Gulu.

331351. Col. P-237. Kitgum market.

331352. Col. P-240. Attiak market.

331353. Col. P-279. Kampala market.

331340 to 331360—Continued

331354. PENNISETUM sp.

Col. P-232. Labora Experiment Station.

331355. PENNISETUM sp.

Col. P-281. Sixty-five miles northwest of Kampala.

331356 to 331358. PHASEOLUS VULGARIS L. Leguminosae. Common bean.

331356. Col. P-220. Forty-five miles north of Mbale.

331357. Col. P-274. Kitoba market.

331358. Col. P-275. Kitoba market.

331359. VIGNA SINENSIS (Torner) Savi Leguminosae. Common cowpea.

Col. P-276. Kitoba market.

331360. ZEA MAYS L. Gramineae.

Corn.

Col. P-310. Ten miles northwest of Kabale.

331361 to 331431.

From Ethiopia. Seed collected by B. M. Leese and L. V. Peters, United States Department of Agriculture, Corps Research Division, Beltsville, Md., and K. O. Rachie, Rockefeller Foundation, New York, N. Y. Received July 9, 1968.

331361. ACACIA sp. Leguminosae.

Col. P-80. Eighty km. south of Asmara, Eritrea Province.

331362. ACACIA sp.

Col. 106-B. Near Errer, Shoa Province. Elevation 1,200 m. Pods lanceolate; seeds ovate and thickened.

331363. ACACIA sp.

Col. 107-B. Twenty km. west of Errer, Shoa Province. Elevation 1,200 m. Shrub 6 m. high; leaves ovate to elongate, folded and flattened; seeds ovate and flattened.

331364. ACACIA sp.

Col. 108-B. Awash Valley, Shoa Province. Elevation 1,050 m. Similar to P.I. 331363; seeds round and flattened.

331365. ACACIA sp.

Col. 109-B. Twenty km. west of Errer, Shoa Province. Elevation 1,200 m. Pods broadly lanceolate; seeds broadly ovate and flattened.

331366. ACACIA sp.

Col. 110-B. Near Bicket, north of the Almar Mountains, Shoa Province. Elevation 1,200 m. Tree; fruits profuse; leaves shedding.

331367. ACACIA sp.

Col. 139-B. Robi, Shoa Province. Elevation 1,500 m. Pods 2 by 10 to 12 cm.

331368. ACACIA sp.

Col. 169-B. Seventy-five km. south of Kembolcha, Wollo Province. Elevation 1,500 m. Pods 1 by 12 to 15 cm.

331369. ACACIA sp.

Col. 215-B. Bati, Wollo Province. Elevation 1,600 m. To 3.0 m. high; pods medium long; seed biconvex.

331361 to 331431—Continued

331370. AGROPYRON sp. Gramineae.

Col. 386-B. Eleven km. east of Adaba, Bale Province. Elevation 3,500 m. Plant 0.4 m. high, leafy; leaves medium wide; good seed producer.

331371. AGROPYRON sp.

Col. 379-B. Thirteen km. east of Adaba, Bale Province. Elevation 3,500 m. Mixed with *Bromus* and *Silene*.

331372. ASTRAGALUS sp. Leguminosae.

Col. 392-B. Fifteen km. east of Adaba, Bale Province. Elevation 3,500 m.

331373. AVENA sp. Gramineae.

Col. 115-B. Sixty km. west of Addis Ababa near Addis Alem, Shoa Province. Plants to 1.8 m. high.

331374. AVENA sp.

Col. R-333. One hundred km. south of Dejen, Gojjam Province.

331375. AVENA sp.

Col. 375-B. 'Sinara'. Seventy-four km. east of Shashamane, Shoa Province. Elevation 2,575 m.

331376. BRASSICA sp. Cruciferae.

Col. 292-B. 'Gomenzer'. Market in Asmara, Eritrea Province. Seed medium small, dark reddish brown.

331377. BRASSICA sp.

Col. 293-B. 'Gomenzer'. Market in Asmara, Eritrea Province. Seed medium large, reddish brown.

331378. BRASSICA sp.

Col. 666-B. Market in Bileda, Kaffa Province.

331379. BRIZA sp. Gramineae.

Col. 113-B. Along the valley road, 12 km. east of Mieso, Harrar Province. Secondary grass associated with *Panicum* and *Ficus*.

331380. CASSIA sp. Leguminosae.

Col. P-50. Forty-five km. north of Weldiya, Wollo Province. Elevation 1,800 m. Plant 0.3 m. high; browsed.

331381. CICER ARIETINUM L. Leguminosae.

Chickpea.

Col. R-75. 'Shimbra'. Market in Debre Berhain, Shoa Province. Seed small, brown and black.

331382. CIRSIUM sp. Compositae.

Col. 390-B. Thirteen km. east of Adaba, Bale Province. Elevation 3,500 m. Ray flowers, spoon type, serrated.

331383. CUCUMIS sp. Cucurbitaceae.

Col. 322-B. One hundred twenty-one km. south of Asmara, Eritrea Province. Elevation 1,400 m. Fruit 8.0 by 10.0 cm.

331384. DIANTHUS sp. Caryophyllaceae.

Col. 385-B. Eleven km. east of Adaba, Bale Province. Elevation 3,500 m.

331385. ECHINOCHLOA sp. Gramineae.

Col. 105-B. North side of Ahmar Mountains near Ourso, Harrar Province. Dominant grass.

331361 to 331431—Continued

331386. *ECHINOCHLOA* sp.

Col. 161-B. Forty km. south of Kembolcha, Shoa Province.

331387. *ECHINOCHLOA* sp.

Col. 335-B. One hundred seventy km. south of Asmara, near Axum, Eritrea Province. Elevation 1,900 m.

331388. *ERAGROSTIS* sp. Gramineae.

Col. R-165. Tessenei, Societe Imprese Africane. Glumes tan; large prolific spikelets with 30-40 florets, forming digits.

331389. *ERAGROSTIS* sp.

Col. R-232. One hundred thirty-four km. south of Axum, Tigre Province. Elevation 1,400 m.

331390. *ERAGROSTIS* sp.

Col. R-307. 'Tuf Tufol'. Six km. south of Debre Marcos, Gojjam Province. Elevation 2,500 m.

331391. *ERAGROSTIS* sp.

Col. 323-B. One hundred twenty-one km. south of Asmara, Eritrea Province. Elevation 1,400 m. Plants 0.9 m. high.

331392. *HYPARRHENIA* sp. Gramineae.

Col. 30-B. Two hundred fifteen km. east of Nazareth, Shoa Province. Elevation 1,600 m.

331393. *LEPIDIUM SATIVUM* L. Cruciferae.

Garden cress.

Col. 673-B. Shebe market on the Monga road, Kaffa Province.

331394. *LOLIUM TEMULENTUM* L. Gramineae.

Darnel.

Col. 379-B. Adaba, Bale Province. Elevation 2,600 m. Glumes 5 times as long as lemma; caryopsis broadly ovate. Awns on lemma.

331395. *LOTUS* sp. Leguminosae.

Col. 391-B. Fifteen km. east of Adaba, Bale Province. Elevation 3,500 m.

331396. *LUPINUS* sp. Leguminosae.

Col. 29-R. Pods to 10 cm. long; seed light tan, rugose and spotted.

331397. *MISCANTHUS* sp. Gramineae.

Col. 196-B. Forty km. south of Kembolcha, Wollo Province. Elevation 1,500 m. To 4 m. high; stems hollow; leaves bilateral; heads sterile.

331398. *PANICUM* sp. Gramineae.

Col. R-36. Tepi, Illubabor Province. Plant to 1.5 m. high; leaves to 2 cm. wide; juicy stem and midrib; panicle open, heavily seeded; seed covered by short glume, long lemma, slightly pigmented. Shatters. Distinct sweet odor.

331399. *PANICUM* sp.

Col. 112-B. Twelve km. east of Mieso along the valley road, Harrar Province. Plant 1.5 m. high, growing among *Ficus* trees.

331400. *PANICUM* sp.

Col. 187-B. Sixty km. south of Kembolcha, Wollo Province. Elevation 1,500 m.

331401. *PANICUM* sp.

Col. R-238. One hundred forty km. south of Axum, Tigre Province. Elevation 1,400 m. Seed very large.

331361 to 331431—Continued

331402. PANICUM sp.

Col. 711-B. Northwest of Jimma and north of Belelle along the Didessa River, Kaffa Province. Plants 1.2 m. high; growing with wild sorghum and *Hyparrhenia rufa*.

331403. PANICUM sp.

Col. 769-B. Thirty km. west of Nekempt, Wollega Province.

331404. PHALARIS PARADOXA L. Gramineae. Hood canarygrass.

Col. 602-B. Forty km. south of Asella, Arussi Province. Elevation 2,500 m. To 0.9 m. high, very leafy. Growing in barley.

331405. PHASEOLUS LUNATUS L. Leguminosae. Lima bean.

Col. R-28. Maji, Kaffa Province. Mixed with *P. vulgaris* and *P. acutifolius*.

331406. PHASEOLUS TRILOBATUS (L.) Schreb.

Col. P-17. Thirty km. north of Debre Sina, Shoa Province. Elevation 1,500 m. Twining legume climbing sorghum plants in cultivated field.

331407 to 331411. PHASEOLUS VULGARIS L. Common bean.

331407. Col. R-19. 'Adanquari'. Bako, Gemu Gofa Province. Elevation 1,290 m. Mixed size and color.

331408. Col. 72-B. Market in Alamyra, Harrar Province. Elevation 1,900 m. Seed red.

331409. Col. 73-B. Market in Harrar, Harrar Province. Seed mostly white.

331410. Col. 366-B. Market 10 km. south of Awasa, Shoa Province. Seed mixed.

331411. Col. 426-B. Doditti, 40 km. west of Shashamane, Shoa Province. Seed mixed.

331412 to 331414. PISUM SATIVUM L. Leguminosae. Pea.

331412. Col. R-21. 'Attar'. Bako, Gemu Gofa Province. Elevation 1,290 m. Seed mixed, greenish gray to tawny green.

331413. Col. R-44. Shewa Gimira, Kaffa Province. Seed medium small, light green to brown.

331414. Col. 795-B. Cara, near Shimbu Swamp, Wollega Province. Elevation 2,500 m. Seed eaten in immature stage.

331415. SCABIOSA sp. Dipsacaceae.

Col. 380-B. Eleven km. east of Adaba, Bale Province. Elevation 3,500 m.

331416. SETARIA sp. Gramineae.

Col. 116-B. Sixty km. west of Addis Ababa near Addis Alem, Shoa Province.

331417. SETARIA sp.

Col. 147-B. Robi, Shoa Province. Roadside ditch. Elevation 1,200 m.

331418. STIPA sp. Gramineae.

Col. R-52. Gambela, Illubabor Province. Plants 1.8 m. high; panicle long, open; leaves 1.2 cm. wide.

331419. TRIFOLIUM sp. Leguminosae.

Col. R-315. In the Blue Nile Gorge, south of Dejen, Gojjam Province. Plant small, semiprostrate; flower reddish purple; pods two seeded; seed dark brown.

331361 to 331431—Continued**331420. TRIFOLIUM sp.**

Col. 337-B. Near Axum, 170 km. south of Asmara, Tigre Province. Elevation 1,900 m. Plants 0.3 m. high; head similar to *T. hybridum*.

331421 and 331422. VICIA FABA L. Leguminosae. Broadbean.

331421. Col. R-20. 'Bakela'. Bako, Gemu Gofa Province. Seed medium large, tawny gray.

331422. Col. R-66. 'Bakala'. Market in Debra Berhan, Shoa Province. Seed small, greenish tan.

331423 to 331425. VIGNA SINENSIS (Torner) Savi Leguminosae. Common cowpea.

331423. Col. P-24. Thirty-two km. north of Debre Sina, Shoa Province. Seed 'Clay' or 'Iron' type.

331424. Col. R-35. Tepi, Illubabor Province. Pod 18 cm. long with 15 seed; seed clay color.

331425. Col. R-51. Gambela, Illubabor Province. Pods to 25 cm. long with 19 seed. Seed with black eyes and brown underlay.

331426. VIGNA sp.

Col. 294-B. 'Gwaya'. Market in Asmara, Eritrea Province. 'Seed medium, light reddish, tawny, black.

331427. VIGNA sp.

Col. 295-B. 'Gwaya'. Market in Asmara, Eritrea Province. Seed medium, creamy.

331428. Undetermined. Labiatae.

Col. 296-B. Market in Asmara, Eritrea Province.

331429. Undetermined. Compositae.

Col. 393-B. Fifteen km. east of Adaba, Bale Province. Elevation 3,500 m.

331430. Undetermined. Sapindaceae.

Col. 114-B. Twelve km. east of Mieso along the valley road, Harrar Province. Elevation 1,200 m. Shrub to 6 m. high with drought resistant habit.

331431. Undetermined. Compositae.

Col. 381-B. Eleven km. east of Adaba, Bale Province. Elevation 3,500 m. Flower lavender, very attractive, resembles English daisy.

331432 to 331436. ORYZA SATIVA L. Gramineae. Rice.

From Japan. Seed presented by the National Institute of Agricultural Sciences, Hiratsuka, Kanagawa. Received July 11, 1968.

331432. 'Ariake'. Var. 09-0012. **331435.** 'Shiranui'. Var. 09-0011.

331433. 'Jukkoku'. Var. 92-1242. **331436.** 'Zensho 26'. Var. 05-0022.

331434. 'Kokumasari'. Var. 09-0009.

331437 and 331438.

From Italy. Seed presented by Giardino Botanico Coloniale di Palermo, Palermo. Received July 11, 1968.

331437. *CYTISUS NIGRICANS* L. Leguminosae. **Spike broom.**

331438. *CYTISUS TRIFLORUS* L'Herit.

331439 to 331459. ZEA MAYS L. Gramineae. Corn.

From Ethiopia. Seed collected by B. M. Leese, Crops Research Division, United States Department of Agriculture, Beltsville, Md., and K. O. Rachie, Rockefeller Foundation, New York, N. Y. Received July 11, 1968.

331439. Col. R-18. Local name Bakolo. Bako, Gemu Gofa Province. Elevation 1,290 m. Seed medium; white. Dent.
331440. Col. R-23. Local name Bakolo. Maji, Gemu Gofa Province. Elevation 2,130 m. Seed medium large; white to red. Dent.
331441. Col. R-33. Tepi, Kaffa Province. Ear 18 cm. long; 18 rows; seed yellow with some purple. Dent.
331442. Col. R-34. Tepi, Kaffa Province. Ear 18 cm. long; 14 rows; seed white with some purple. Flint.
331443. Col. R-40. Gori, Illubabor Province. Seed white. Flint.
331444. Col. R-43. Ghimeeria, Kaffa Province. Seed white. Dent.
331445. Col. R-46. Gilo River, near the Sudan border, Illubabor Province. Seed yellow. Flint.
331446. Col. R-50. Gambela, Illubabor Province. Elevation 540 m. Seed yellow—one percent each yellowish red and purple. Flint.
331447. Col. R-54. Bedele, 300 km. west of Addis Ababa, Illubabor Province. Ear 20 cm. long; 18 rows; seed medium small; white, five percent yellow. Dent.
331448. Col. R-55. Bedele, 300 km. west of Addis Ababa, Illubabor Province. Ear 15 cm. long; 16 rows; seed small. Cross pollinated.
331449. Col. R-57. Hosana, 200 km. south of Addis Ababa, Shoa Province. Elevation 1,950 m. Seed white. Dent. Mixed.
331450. Col. R-58. Hosana, 200 km. south of Addis Ababa, Shoa Province. Elevation 1,950 m. Seed white. Dent. Mixed.
331451. Col. 176-B. Local name Bokolo. Seventy km. south of Kembolcha, Shoa Province. Fourteen rows; seed white and yellow. Dent.
331452. Col. 281-B. Local name Bokolo. Market in Asmara, Eritrea Province. Seed medium; red. Dent.
331453. Col. 282-B. Local name Bokolo. Market in Asmara, Eritrea Province. Seed medium; white, some yellow and red. Dent.
331454. Col. 283-B. Local name Bokolo. Market in Asmara, Eritrea Province. Seed white and yellow, some blue and red. Dent.
331455. Col. R-260. Market in Chuahe, Tigre Province. Seed white.
331456. Col. R-273. Market in Addis Zennen, Begemder Province. Seed white, red and blue.
331457. Col. R-301. One hundred ninety-seven km. south of Bahar Dar, Begemder Province. Elevation 1,950 m. Ear 20 cm. long; seed white, red and blue. Flint.
331458. Col. 406-B. Seventy km. west of Shashamane, Shoa Province. Elevation 1,800 m. Cob white; seed white. Flint.
331459. Col. 718-B. Local name Sedacha. Fifteen km. west of Asendabo toward the Gibi Gibi River (Shomi River), Kaffa Province. This material has been selected for three generations within the same family.

331460. GOSSYPIUM HIRSUTUM L. Malvaceae.

From Seychelles. Seed presented by Veevers-Carter, Astove. Received July 12, 1968.

331461 to 331658. ORYZA SATIVA L. Gramineae.**Rice.**

From the Philippines. Seed presented by the International Rice Research Institute, Manila. Received July 12, 1968.

331461. IR509-1-3-2-3. Chianung 242/2 x FF36.
 331462. IR509-1-15-3-2. Chianung 242/2 x FF36.
 331463. IR509-10-15-3-2. Chianung 242/2 x FF36.
 331464. IR510-10-2-1. FF36 x B583A1-4-2.
 331465. IR510-12-2-1. FF36 x B583A1-4-2.
 331466. IR510-15-2-3. FF36 x B583A1-4-2.
 331467. IR511-16-3-1. FF36 x (CP231 x Kh. 68).
 331468. IR498-1-31-1. [(CP-SLO)/2 x T(N)1] x Zenith.
 331469. IR498-1-78-1. [(CP-SLO)/2 x T(N)1] z Zenith.
 331470. IR498-1-116-3. [(CP-SLO)/2 x T(N)1] x Zenith.
 331471. IRA94-1-17-3. (Bluebelle/3 x T(N)1) x Zenith.
 331472. IR503-6-3-6. (Peta/3 x T(N)1) x (B589A4-18/2 x T(N)1).
 331473. IR503-1-45-1. (Peta/3 x T(N)1) x (B589A4-18/2 x T(N)1).
 331474. IR503-1-63-3. (Peta/3 x T(N)1) x (B589A4-18/2 x T(N)1).
 331475. IR503-1-91-3. (Peta/3 x T(N)1) x (B589A4-18/2 x T(N)1).
 331476. IR532-1-10-2. (Peta/3 x T(N)1) x TKM-6.
 331477. IR532-1-14-1. (Peta/3 x T(N)1) x TKM-6.
 331478. IR532-1-17-1. (Peta/3 x T(N)1) x TKM-6.
 331479. IR532-1-18-2. (Peta/3 x T(N)1) x TKM-6.
 331480. IR532-1-21-2. (Peta/3 x T(N)1) x TKM-6.
 331481. IR532-1-33-1. (Peta/3 x T(N)1) x TKM-6.
 331482. IR532-1-33-3. (Peta/3 x T(N)1) x TKM-6.
 331483. IR532-1-65-3. (Peta/3 x T(N)1) x TKM-6.
 331484. IR532-1-116-2. Peta/3 x T(N)1) x TKM-6.
 331485. IR532-1-128-3. (Peta/3 x T(N)1) x TKM-6.
 331486. IR532-1-141-2. (Peta/3 x T(N)1) x TKM-6.
 331487. IR532-1-155-1. (Peta/3 x T(N)1) x TKM-6.
 331488. IR532-1-177-2. (Peta/3 x T(N)1) x TKM-6.
 331489. IR532-1-223-1. (Peta/3 x T(N)1) x TKM-6.
 331490. IR506-53-4-1. IR8 x (B589A4-18/2 x T(N)1).
 331491. IR506-65-3-1. IR8 x (B589A4-18/2 x T(N)1).
 331492. IR506-67-6-3. IR8 x (B589A4-18/2 x T(N)1).
 331493. IR506-78-1-2. IR8 x (B589A4-18/2 x T(N)1).
 331494. IR506-101-6-2. IR8 x (B589A4-18/2 x T(N)1).
 331495. IR506-110-2-1. IR8 x (B589A4-18/2 x T(N)1).
 331496. IR506-1-47-2. IR8 x (B589A4-18/2 x T(N)1).
 331497. IR506-1-70-1. IR8 x (B589A4-18/2 x T(N)1).
 331498. IR506-1-89-2. IR8 x (B589A4-18/2 x T(N)1).
 331499. IR533-6-1-2. [(CP-SLO)/2 x Sigadis] x (Peta/3 x T(N)1).
 331500. IR533-6-62-3. [(CP-SLO)/2 x Sigadis] x (Peta/3 x T(N)1).

331461 to 331658—Continued

331501. IR533-8-2-3. [(CP-SLO)/2 x Sigadis] x (Peta/3 x T(N)1).
 331502. IR533-1-38-2. [CP-SLO)/2 x Sigadis] x (Peta/3 x T(N)1).
 331503. IR537-6-6-2. [(CP-SLO)/2 x 81B-25] x (Peta/3 x T(N)1).
 331504. IR547-54-1-2. T(N)1 x Dawn.
 331505. IR8 (68)-3 ck. Peta x Dgwg.
 331506. IR548-28-2-1. Belle Patna x T(N)1.
 331507. IR548-1-13-2. Belle Patna x T(N)1.
 331508. IR548-1-15-3. Belle Patna x T(N)1.
 331509. IR548-1-50-2. Belle Patna x T(N)1.
 331510. IR184-51-1-2-1-1-3. B581A6-545 x 81B-25.
 331511. IR117-21-2-1-1-1-2. B561A6-545 x BPI-76.
 331512. IR334-5-1-3-3-2-3. (CP-SLO)/2 x BPI-76.
 331513. IR334-20-1-2-1-3-3. (CP-SLO)/2 x BPI-76.
 331514. IR298-12-1-1-1-3-3. [BPI-76 x (CP-SLO) x Peta].
 331515. IR140-136-2-3-1-2. (CP231 x SLO-17) x Mas.
 331516. IR291-13-1-1-1-2-2. B589A4-18-1/2 x T(N)1.
 331517. IR151-P130-3-1. Dawn x T(N)1.
 331518. IR151-P134-2-3. Dawn x T(N)1.
 331519. IR151-P136-2-3. Dawn x T(N)1.
 331520. IR151-P190-3-3. Dawn x T(N)1.
 331521. IR151-P251-2-3. Dawn x T(N)1.
 331522. IR151-P276-2-2. Dawn x T(N)1.
 331523. IR224-16-1-3-3-2-1. (CP231 x SLO-17) x Dawn.
 331524. IR224-16-2-3-2-3-1. (CP231 x SLO-17) x Dawn.
 331525. IR224-20-3-2-1-2-2. (CP231 x SLO-17) x Dawn.
 331526. IR224-20-3-2-3-2-2. (CP231 x SLO-17) x Dawn.
 331527. IR280-6-6-1-1X3-2. CI9300 x Dawn.
 331528. IR178-118-3-1-2-3-2. Dawn x 81B-25.
 331529. IR271-10-2-1-1-2-3-2. Dawn/2 x Sigadis.
 331530. IR271-22-16-5-2-2-1. Dawn/2 x Sigadis.
 331531. IR409-1-8-2-2-2-2. Dawn/3 x Sigadis.
 331532. IR456-3-2-2-3-2. Dawn/2 x (CP-SLO).
 331533. IR456-15-6-1-2-2. Dawn/2 x (CP-SLO).
 331534. IR456-15-6-3-1-2. Dawn/2 x (CP-SLO).
 331535. IR626-1-119-3. IR8-288-3 x (Peta/5 x Belle Patna).
 331536. IR626-1-124-3. IR8-288-3 x (Peta/5 x Belle Patna).
 331537. IR626-1-157-1. IR8-288-3 x (Peta/5 x Belle Patna).
 331538. IR781-428. IR8/2 x [Yukara x T(N)1].
 331539. IR667-1-23-3. IR8 x [Yukara x T(N)1].
 331540. IR667-1-25-2. IR8 x [Yukara x T(N)1].
 331541. IR474-11-3. Sukanandi x T(N)1.
 331542. IR474-15-2. Sukanandi x T(N)1.

331461 to 331658—Continued

331543. IR474-25-1. Sukanandi x T(N)1.
 331544. IR474-30-2. Sukanandi x T(N)1.
 331545. IR474-81-2. Sukanandi x T(N)1.
 331546. IR279-25-2-9-1-2. B581A6-545/2 x (Bbt.50-Jojutla).
 331547. IR238-29-2-2-1-2-2. (CP231 x SLO 17) x Nahng Mon S-4.
 331548. IR293-6-2-1. (CP231 x SLO 17)/2 x 81B-25.
 331549. IR682Z23-2. [(CP231 x SLO 17) x BPI-76 x (CP-SLO) x Peta].
 331550. IR682-50-3. (CP231 x SLO 17) x [BPI-76 x (CP-SLO) x Peta].
 331551. IR478-99-3. (CP231 x SLO-17) x Sukanandi.
 331552. IR579-14-1. IR8 x Tadukan.
 331553. IR579-52-2. IR8 x Tadukan.
 331554. IR579-85-2. IR8 x Tadukan.
 331555. IR579-145. IR8 x Tadukan.
 331556. IR579-147. IR8 x Tadukan.
 331557. IR579-160. IR8 x Tadukan.
 331558. IR579-163. IR8 x Tadukan.
 331559. IR585-3-10-2-1. IR8 x (BPI-76 x T. 176).
 331560. IR586-19-1-2. IR8 x (BPI-76/2 x T. 172).
 331561. IR586-11-3. IR8 x (BPI-76/2 x T. 172).
 331562. IR586-48-1. IR8 x (BPI-76/2 x T. 172).
 331563. IR586-60-1. IR8 x (BPI-76/2 x T. 172).
 331564. IR586-65-2. IR8 x (PBI-76/2 x T. 172).
 331565. IR586-157-2. IR8 x (PBI-76/2 x T. 172).
 331566. IR593-17-3. IR8 x F3 1(CP231 x SLO 17) x N. Mon S-41.
 331567. IR665-79-2. IR8 x (Peta/5 x Belle Patna).
 331568. IR666-3-2. IR8 x Yukara.
 331569. IR667-53-3. IR8 x [Yukara x T(N)1].
 331570. IR667-65-1. IR8 x [Yukara x T(N)1].
 331571. IR667-70-3. IR8 x [Yukara x T(N)1].
 331572. IR667-80-2. IR8 x [Yukara x T(N)1].
 331573. IR667-81-1. IR8 x [Yukara x T(N)1].
 331574. IR667-89-2. IR8 x [Yukara x T(N)1].
 331575. IR667-110-3. IR8 x [Yukara x T(N)1].
 331576. IR667-137-3. IR8 x [Yukara x T(N)1].
 331577. IR667-145-2. IR8 x [Yukara x T(N)1].
 331578. IR329-23-1-3-3-2-1-3. Bluebelle/2 x L. Yai 34.
 331579. IR659-10-2-3. Bluebelle/6 x T(N)1.
 331580. IR659-10-7-2. Bluebelle/6 x T(N)1.
 331581. IR659-10-8-3. Bluebelle/6 x T(N)1.
 331582. IR659-10-10-3. Bluebelle/6 x T(N)1.
 331583. IR659-15-2-2. Bluebelle/6 x T(N)1.
 331584. IR659-15-5-1. Bluebelle/6 x T(N)1.

331461 to 331658—Continued

331585. IR665-2. IR8 x (Peta/5 x Belle Patna).
331586. IR665-12. IR x (Peta/5 x Belle Patna).
331587. IR781-144-1. IR8/2 x [Yukara x T(N)1].
331588. IR781-152-1. IR8/2 x [Yukara x T(N)1].
331589. IR781-169-2. IR8/2 x [Yukara x T(N)1].
331590. IR781-194-1. IR8/2 x [Yukara x T(N)1].
331591. IR781-197-2. IR8/2 x [Yukara x T(N)1].
331592. IR708-B3-3. IR708-b3-3. Dawn/2 x [(CP231 x SLO-7) x T(N)1].
331593. IR708-B3-4. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331594. IR708-B3-13. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331595. IR708-B3-21. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331596. IR708-B4-9. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331597. IR708-B4-10. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331598. IR708-B4-21. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331599. IR708-B4-22. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331600. IR708-B6-1. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331601. IR708-B6-4. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331602. IR708-B6-7. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331603. IR708-B6-14. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331604. IR708-B6-16. Dawn/2 x [(CP231 x SLO-17) x T(N)1].
331605. IR583-2-2-2. IR8 x FF36.
331606. IR583-10-1-1. IR8 x FF36.
331607. IR583-10-1-2. IR8 x FF36.
331608. IR583-13-3-1. IR8 x FF36.
331609. IR583-14-1-2. IR8 x FF36.
331610. IR583-14-3-2. IR8 x FF36.
331611. IR583-23-1-1. IR8 x FF36.
331612. IR583-25-1-3. IR8 x FF36.
331613. IR583-39-2-1. IR8 x FF36.
331614. IR583-40-1-3. IR8 x FF36.
331615. IR583-40-2-1. IR8 x FF36.
331616. IR583-40-2-2. IR8 x FF36.
331617. IR8-288-3-14-4. Peta x Dgwg.
331618. IR8-288-3-41-7. Peta x Dgwg.
331619. IR8-288-3-41-11. Peta x Dgwg.
331620. IR8-288-3-68-14. Peta x Dgwg.
331621. IR8-288-3-71-6. Peta x Dgwg.
331622. IR8-288-3-71-11. Peta x Dgwg.
331623. IR8-288-3-71-12. Peta x Dgwg.
331624. IR532E160-571. Peta/3 x TN1) x TKM-6.
331625. IR532E210-685. (Peta/3 x TN1) x TKM-6.

331461 to 331658—Continued

331626. IR532E213-693. (Peta/3 x TN1) x TKM-6.
 331627. IR532E230-710. (Peta/3 x T(N)1) x TKM-6.
 331628. IR532S233-720. (Peta/3 x T(N)1) x TKM-6.
 331629. IR532E239-748. (Peta/3 x T(N)1) x TKM-6.
 331630. IR532E257-780. (Peta/3 x T(N)1) x TKM-6.
 331631. IR532E420-1183. (Peta/3 x T(N)1) x TKM-6.
 331632. IR532S423-1199. (Peta/3 x T(N)1) x TKM-6.
 331633. IR532E527-1528. (Peta/3 x T(N)1) x TKM-6.
 331634. IR532E576-1678. (Peta/3 x T(N)1) x TKM-6.
 331635. IR533-1-89. [(CP231 x SLO-17)/2 x Sigadis] x [Peta/3 x T(N)1].
 331636. IR533-1-88. [(CP231 x SLO-17)/2 x Sigadis] x [(Peta/3 x T(N)1)].
 331637. IR533-1-63. [(CP231 x SLO-17)/2 x Sigadis] x [Peta/3 x T(N)1].
 331638. [T(N)1 x Kt 20-73] F8.
 331639. Taichung Intermediate Trial.
 331640. IR140-136. (CP231 x SLO-17) x Mas.
 331641. IR111-26-10. (CP231 x SLO-17) x BPI-76.
 331642. IR180-43. (CP231 x SLO-17) x 81B-25.
 331643. IR293-6-1. (CP231 x SLO-17)/2 x 81B-25.
 331644. IR271-22-16-2. Dawn/2 x Sagadis.
 331645. Tokai Senbon x Basmati 370.
 331646. IR527-1-57. T(N)1 x ADT-27.
 331647. IR528-1-11. (Peta/3 x TN1) x ADT-27.
 331648. IR537-6-6. (CP-SLO/2 x 81B-25) x (Peta/3 x TN1).
 991649. Short Sigadis.
 331650. IR305-4-9-1-2. Sigadis/2 x TN1.
 331651. IR509-1-2-2. Ch. 242 x FF-36.
 331652. IR496-1-74-2. (CP-SLO/2 x TN1) x (KN1 x B5464).
 331653. R496-1-6. (CP-SLO/2 x TN1) x (KN1 x B5464).
 331654. IR502-1-28. (L. Yai 34 x TN1) x B583A1-4-2.
 331655. IR154-45-2-2-3-2. (CP-SLO) x TN1.
 331656. IR144-95-1-2-3-2. (CP-SLO) x TN1.
 331657. IR154-148-2-1-2. (CP-SLO) x TN1.
 331658. IR273-6-6-2-3. (CP-SLO)/2 x TN1.

331659. DATURA METEL L. Solanaceae.**Hindu datura.**

From France. Seed presented by Botanic Gardens, University of Montpellier, Montpellier. Received July 22, 1968.

331660. BAPHIA OBOVATA Schinz Leguminosae.

From Zambia. Seed presented by J. Anton-Smith, Mount Makulu Research Station, Chilanga. Received July 22, 1968.

Tree, small. Flowers white; eye yellow; calyx pink. Grows in almost pure sand.

331661. SOLANUM NIGRUM L. Solanaceae. Black nightshade.

From Tanzania. Seed presented by P. A. H. Rijkbusch, Tanganyika Sisal Growers' Association, Sisal Research Station—Milingano, Ngomeni, Tanga. Numbered July 22, 1968.

Local name Mnavu. Market in Tanga.

331662 to 331703.

From Ethiopia. Seed collected by B. M. Leese and L. V. Peters, Crops Research Division, United States Department of Agriculture, Beltsville, Md., and K. O. Rachie, Rockefeller Foundation, New York, N. Y. Numbered July 22, 1968.

331662 to 331698. PENNISETUM SPICATUM (L.) Willd. Gramineae.

Pearl millet.

331662. Col. 33-B. Mieso, Harrar Province. Elevation 450 m. Bristles obscure.

331663. Col. 37-B. Fifteen km. north of Mieso, Harrar Province. Elevation 450 m. Seed steel gray.

331664. Col. 50-B. Market in Dire Dawa, Harrar Province. Fifteen km. west of Dire Dawa, Harrar Province, in the valley. Elevation 1,250 m.

331665. Col. 77-B. Heads medium, short in length, compact to very compact; seed medium, light slate gray.

331666. Col. 78-B. Heads medium large, semispindle shape, compact; seed medium, light slate gray.

331667. Col. 79-B. Head large, cylindrical, slightly tapered, semicompact; seed medium, slate gray; bristles obscure.

331668. Col. 80-B. Head medium small, lanceolate, compact to very compact; seed medium to small, slate gray.

Hurso, 30 km. south of Dire Dawa, Harrar Province. Elevation 1,200 m.

331669. Col. 85-B. Heads medium long, cylindrical, tapered, very compact; seed medium, slate gray.

331670. Col. 86-B. Heads medium long, cylindrical, tapered, compact; seed medium, slate gray; bristles obscure.

331671. Col. 87-B. Heads spindle lanceolate; rachis bowed, compact; seed medium, slate gray.

331672. Col. 88-B. Heads medium, cylindrical lanceolate, compact; seed light gray.

331673. Col. 89-B. Heads medium large, semicompact, spindle lanceolate; seed medium, pearly gray; bristles obscure, short.

331674. Col. 90-B. Heads medium, cylindrical, very compact; seed conical, slate gray; bristles obscure.

East of Mieso toward Afdem, Harrar Province. Elevation 1,400 m.

331675. Col. 96-B. Heads medium, spindle, semicompact; seed medium small to medium large, light slate gray.

331676. Col. 97-B. Heads medium, spindle, compact; seed slate gray.

331677. Col. 98-B. Heads medium large, spindle, semicompact; seed medium, slate gray, bristles very obscure.

331678. Col. 99-B. Heads medium small, cylindrical, semicompact; seed medium, slate gray.

331679. Col. 100-B. Heads medium long, cylindrical, compact to very compact; seed medium, slate gray.

Market in Asmara, Eritrea Province.

331662 to 331703—Continued**331662 to 331698—Continued**

331680. Col. 279-B. Local name Biltoob. Seed gray to yellowish.
331681. Col. 280-B. Seed light gray to yellowish. Sixty-two km. west of Asmara, Eritrea Province.
331682. Col. P-138. Bristled; seed yellow.
331683. Col. P-141. Bristles purple; glumes purple.
331684. Col. P-142. Bristles purple.
331685. Col. P-143. Local name Biltoob. Bristles short.
331686. Col. P-144. Local name Biltoob. Seed yellow.
331687. Col. P-145. Seed yellow. One hundred km. west of Asmara, Eritrea Province.
331688. Col. P-153. Local name Biltoob. Bristles purple.
331689. Col. P-154. Seed yellow. One hundred five km. west of Asmara, Eritrea Province.
331690. Col. P-161. Local name Biltoob. Seed yellow.
331691. Col. P-162. Seed yellow.
331692. Col. P-173. Local name Biltoob. One hundred twenty-six km. west of Asmara, Eritrea Province. Seed yellow.
331693. Col. P-180. Local name Biltoob. One hundred thirty km. west of Asmara, Eritrea Province. Heads large; seed yellow.
331694. Col. P-182. Local name Biltoob. One hundred thirty-one km. west of Asmara, Eritrea Province. Seed yellow.
331695. Col. P-184. Local name Biltoob. One hundred thirty-seven km. west of Asmara, Eritrea Province. Heads bristled. Market in Dire Dawa, Harrar Province. Local name Duku.
331696. Col. P-427. Seed gray.
331697. Col. P-434. Seed gray.
331698. Col. P-648. Local name Biltoob. Market in Asmara, Eritrea Province. Seed mixed yellow, gray and orange.

331699. PENNISETUM sp.

Col. R-226. Eighty-three km. south of Axum, Tigre Province. Plants 0.9 m. high; heads 8 cm. long.

331700. PENNISETUM sp.

Col. R-227. One hundred seven km. south of Axum, Tigre Province. Elevation 1,500 m. Heads 8 cm. long, purple.

331701. PENNISETUM sp.

Col. R-237. One hundred forty km. south of Axum, Tigre Province. Elevation 1,400 m.

331702. PENNISETUM sp.

Col. R-248. Two hundred km. south of Axum, Tigre Province. Elevation 1,450 m.

331703. PENNISETUM sp.

Col. 336-B. Near Axum, in Tigre Province, 170 km. south of Asmara. Elevation 1,900 m.

331704 to 331716.

From Ethiopia. Seed collected by L. V. Peters, Crops Research Division, United States Department of Agriculture, Serere Experiment Station, Soroti, Uganda. Received July 22, 1968.

331704 to 331716—Continued**331704. HORDEUM VULGARE L. Gramineae.**

Col. P-608. Local name G'ebbs. Market in Labibela, Wollo Province. Seed covered, light and dark. Probably mixed. Two and six row.

331705. HORDEUM sp.

Col. P-607. Local name G'ebbs. Market in Lalibela, Wollo Province. Seed covered, light and dark. Two row.

331706. TRITICUM sp. Gramineae.

Col. P-606. Local name Sinday. Market in Lalibela, Wollo Province. Seed mixed, white, some purple. Durum. Some *Lolium temulentum*.

331707 to 331716. ZEA MAYS L. Gramineae. Corn.

Local name Bokolo. Market in Dembidolo, Wollega Province. Elevation 1,560 m.

331707. Col. P-502. Seed mixed color.

331708. Col. P-505. Seed mixed color.

331709. Col. P-509. Seed mixed.

Local name Bokolo. Market in Gambela, Illubabor Province. Elevation 530 m.

331710. Col. P-576. Ear small, 13 cm. long; seed yellow, flint type; 14 rows.

331711. Col. P-577. Ear small, 13 cm. long; seed yellow, flint type; 14 rows.

331712. Col. P-578. Ear 13 cm. long; seed yellow, flint type; 14 rows.

331713. Col. P-579. Ear 15 cm. long; seed mixed yellow and white, flint type; 12 rows.

331714. Col. P-580. Ear 13 cm. long; seed light and dark purple, yellow and white; flint; 12 rows.

331715. Col. P-581. Ear 13 cm. long; seed purple, yellow and white, flint; 14 rows.

331716. Col. P-588. Seed mixed white, yellow and purple.

331717 to 331743. SORGHUM BICOLOR (L.) Moench Gramineae.

From Australia. Seed presented by Dekalb Shand Seed Company, Ltd., Sydney. All seed grown in registered Plant Quarantine Station, Armidale. Received July 22, 1968.

331717. Row T 77, plant 1. CK 60 ms2.

331718. Row T 77, plant 2. CK 60 ms2.

331719. Row T 77, plant 3. CK 60 ms2.

331720. Row T 77, plant 4. CK 60 ms2.

331721. Row Q 76, plant 1. Martin ms2.

331722. Row Q 76, plant 2. Martin ms2.

331723. Row Q 76, plant 3. Martin ms2.

331724. Row Q 76, plant 4. Martin ms2.

331725. Row R 76, plant 1. Martin ms1.

331726. Row R 76, plant 2. Martin ms1.

331727. Row R 76, plant 3. Martin ms1.

331728. Row R 76, plant 4. Martin ms1.

331717 to 331743—Continued

331729. Row S 76, plant 1. CK 60 ms1.
 331730. Row S 76, plant 2. CK 60 ms1.
 331731. Row S 76, plant 3. CK 60 ms1.
 331732. Row S 76, plant 4. CK 60 ms1.
 331733. Row T 66, bulk. CK 60 day st.
 331734. Row Q 76, plant 1. Martin day st.
 331735. Row Q 76, plant 2. Martin day st.
 331736. Row R 75, plant 1. CK 60 al.
 331737. Row R 75, plant 2. CK 60 al.
 331738. Row S 75, bulk. CK 60 al.
 331739. Row T 75, plant 1. Martin lg.
 331740. Row T 75, plant 2. Martin lg.
 331741. Row Q 74, plant 1. Martin lg.
 331742. Row Q 74, plant 2. Martin lg.
 331743. Row Q 74, plant 3. Martin lg.

**331744. ARAUCARIA ANGUSTIFOLIA (Bertol.) Kuntze Pinaceae.
Brazilian araucaria.**

From Brazil. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton and Experiment, Ga. Received July 23, 1968.

Col. 399. 'Parana Pine'. Central Market at Porto Alegre, Rio Grande do Sul. Major timber tree in States of Parana and Santa Catarina. Seed edible.

331745. HIBISCUS sp. Malvaceae.

From Japan. Seed presented by Y. Tachibana, Botanical Garden of Osaka City University, Osaka. Received July 25, 1968.

Reported to flower 3 months after planting.

331746 to 331778.

From Portugal. Seed presented by Jardim e. Museu Agricola do Ultramar, Belem-Lisboa -3. Numbered July 29, 1968.

331746 to 331775. ARACHIS HYPOGAEA L. Leguminosae.

331746. No. 22a. 'Bombay'.
 331747. No. 22e. 'Cote d'Ivoire 236'.
 331748. No. 102. 'Jekolo CJ 24'.
 331749. No. 130. 'Lumbalada'.
 331750. No. 271. '267 M Valencia Loudima'.
 331751. No. 323. '174 A Virginia red'.
 331752. No. 375. 'Amendoim de Andaluzia, Espanha'.
 331753. No. 383. 'Virginia Bunch'.
 331754. No. 457. 'Cuba'.
 331755. No. 650. 'Gandayaka 1 403'.
 331756. No. 653. 'Nicaramadonga CJ 15'.
 331757. No. 656. 'Gandayaka 1'.
 331758. No. 661. 'Huxululu'.

331746 to 331778—Continued**331746 to 331775—Continued**

331759. No. 662. 'Jumbo'.
 331760. No. 663. 'Indigena de 3 graos 34/15'.
 331761. No. 666. 'Amendoim da Guine—Macedo Coelho'.
 331762. No. 669. 'Java 34/11'.
 331763. No. 671. 'Bamby 31-33'.
 331764. No. 673. 'Virginia Bunch 335 A'.
 331765. No. 679. 'Virginia Niangoloko'.
 331766. No. 681. 'Bamby 28-206-343 M'.
 331767. No. 690. 'Spanish Bunch'.
 331768. No. 691. 'Amendoim de Odeceixe, Algarve'.
 331769. No. 692. '305 A Rose de Loudima'.
 331770. No. 699. '304 A Rose de Loudima'.
 331771. No. 701. 'Rose de Loudima 20 Lignees'.
 331772. No. 709. 'Rustembourg'.
 331773. No. 711. 'Amendoim do Bie—Angola'.
 331774. No. 714. 'Amenloim de Ponta Delgada, S. Miquel, Acores'.
 331775. No. 914. 'Amendoim Vermelho'.
 331776 to 331778. *RICINUS COMMUNIS* L. Euphorbiaceae. Castorbean.
 331776. No. 588. 'K 871'.
 331777. No. 596. 'Verona'.
 331778. No. 606. 'Sanguinea'.

**331779 to 331789. EUCHLAENA MEXICANA Schrad. Gramineae.
Teosinte.**

From Mexico. Seed presented by the International Maize and Wheat Improvement Center, Londres 40, Mexico 6, D. F.

Numbered July 29, 1968.

331779. Col. K-65-2. Miraflores, Mexico State. Chalco-Amecameca region. Elevation 2,280 m.
 331780. Col. K-67-1. Temamatla, Mexico State. Chalco-Amecameca region. Elevation 2,250 m.
 331781. Col. K-67-2. Juchitepec, Mexico State. Chalco-Amecameca region. Elevation 2,470 m.
 331782. Col. K-67-3. Tepetlixpa, Mexico State. Chalco-Amecameca region. Elevation 2,320 m.
 331783. Col. K-67-8. Guerrero State. Iguala-Teloloapan region. Elevation 1,570 m.
 331784. Col. K-67-12. Guerrero State. Teloloapan-Arcelia region. Elevation 1,130 m.
 331785. Col. K-67-13. Michoacan State. Huetamo-Tiquicheo region. Elevation 800 m.
 331786. Col. K-67-17. Luvianos, Mexico State. Toluca-Tejupilco region. Elevation 1,390 m.
 331787. Col. K-67-20. Mexico State. Valle de Bravo-Tingambato region. Elevation 1,110 m.
 331788. Col. K-67-22. Michoacan State. Tingambato-Tuzantla region. Elevation 950 m.

331779 to 331789—Continued

331789. Col. K-67-25. Michoacan State. Zitacuaro-Tuzantla region.
Elevation 1,235 m.

331790 to 331792.

From Argentina. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Numbered July 31, 1968.

331790. *BRACHIARIA* sp. Gramineae.

Col. 604. Instituto Nacional de Tecnologia Agropecuaria Experiment Station, El Sombrerito, Corrientes Province.

331791. *ELEUSINE TRISTACHYA* Lam. Gramineae.

Col. 607. On Route 725 at San Javier, Santa Fe Province. Bunchgrass to 25 cm high.

331792. *RHYNCHOSIA* sp. Leguminosae.

Col. 609. Near city of General Paz, Corrientes Province.

331793 to 331795. *GLYCINE MAX* (L.) Merr. Leguminosae.**Soybean.**

From Viet-Nam. Seed presented by Shin Han Kwon, Food and Agriculture Organization, United Nations, Saigon. Numbered July 31, 1968.

331793. 'Dia-Phyng'. Seed small, yellow, nearly round.

331794. Unknown line. Seed medium, yellow, brown hilum.

331795. Unknown line. Seed small, yellow, hilum dark brown.

331796. *TRITICUM AESTIVUM* L. Gramineae. Common wheat.

From Italy. Seed presented by Plant Production and Protection Division, Food and Agriculture Organization, Rome. Numbered July 31, 1968.

'Sembel 2' (FAO 25.2 8). Originated with Department of Agriculture, Asmara, Ethiopia.

331797 and 331798. *LEUCAENA LEUCOCEPHALA* (Lam.) De Wit Leguminosae. Leadtree.

From Australia. Seed presented by Department of Primary Industries, Agriculture Branch, William Street, Brisbane. Numbered July 31, 1968.

331797. 'El Salvador'.

331798. 'Peruvian'.

331799. *PRUNUS PERSICA* (L.) Batsch Rosaceae. Peach.

From the United States. Scions grown at College of Agriculture, University of Georgia, Athens, Georgia. Originally from Tanga, Tanzania. Numbered July 31, 1968.

331800 to 333282.

From Israel. Seed presented by Faculty of Agriculture, Hebrew University of Jerusalem, Rehovot, under Public Law 480 Project A10-CR-1. Numbered August 1968.

331800 to 332307. *HORDEUM VULGARE* L. Gramineae.

Accession numbers assigned to original seed by the Institut f. Kulturpflanzenforschung der Deutschen Akademie der Wissenschaften zu Berlin, Systematische Abteilung, Gatersleben, Germany.

331800. 42/58

331802. 138/60

331801. 110/57

331803. 142/58

331800 to 333282—Continued

331800 to 332307—Continued

331804.	200/57	331845.	980/59
331805.	236/61	331846.	983/59
331806.	268/61	331847.	987/59
331807.	301/61	331848.	988/61
331808.	325/61	331849.	991/61
331809.	373/61	331850.	1136/59
331810.	381/61	331851.	1227/58
331811.	419/61	331852.	1265/61
331812.	721/61	331853.	1283/60
331813.	724/61	331854.	1286/57
331814.	728/60	331855.	1300/59
331815.	741/59	331856.	1303/61
331816.	757/61	331857.	1308/57
331817.	764/61	331858.	1310/61
331818.	770/61	331859.	1424/58
331819.	771/61	331860.	1447/58
331820.	788/61	331861.	1451/58
331821.	791/58	331862.	1454/58
331822.	802/60	331863.	1462/58
331823.	802/61	331864.	1468/58
331824.	803/61	331865.	1475/58
331825.	805/60	331866.	1476/58
331826.	805/61	331867.	1504/58
331827.	808/61	331868.	1512/58
331828.	810/60	331869.	1515/58
331829.	811/61	331870.	1558/58
331830.	812/61	331871.	1575/58
331831.	823/61	331872.	1581/58
331832.	833/58	331873.	1595/58
331833.	835/61	331874.	1599/58
331834.	836/61	331875.	1611/58
331835.	841/58	331876.	1622/58
331836.	848/59	331877.	1633/58
331837.	850/61	331878.	1668/60
331838.	852/60	331879.	1677/58
331839.	857/61	331880.	1688/59
331840.	872/57	331881.	1690/61
331841.	874/59	331882.	1730/58
331842.	880/61	331883.	1739/59
331843.	885/61	331884.	1806/61
331844.	962/58	331885.	1814/60

331800 to 333282—Continued**331800 to 332307—Continued**

331886.	1823/60	331927.	2102/58
331887.	1825/60	331928.	2110/58
331888.	1829/60	331929.	2112/58
331889.	1833/61	331930.	2115/58
331890.	1835/60	331931.	2118/58
331891.	1838/62	331932.	2121/58
331892.	1839/60	331933.	2122/58
331893.	1841/60	331934.	2129/58
331894.	1847/61	331935.	2137/58
331895.	1850/60	331936.	2147/58
331896.	1852/61	331937.	2150/58
331897.	1854/60	331938.	2154/58
331898.	1855/61	331939.	2157/58
331899.	1856/60	331940.	2169/58
331900.	1858/60	331941.	2171/58
331901.	1859/60	331942.	2174/58
331902.	1860/61	331943.	2196/58
331903.	1861/60	331944.	2210/58
331904.	1884/60	331945.	2278/61
331905.	1927/61	331946.	2291/58
331906.	1938/61	331947.	2362/58
331907.	1946/60	331948.	2375/58
331908.	1968/60	331949.	2376/58
331909.	1981/60	331950.	2377/58
331910.	1990/60	331951.	2396/59
331911.	1991/60	331952.	2403/56
331912.	2003/60	331953.	2421/58
331913.	2005/61	331954.	2435/58
331914.	2006/60	331955.	2463/60
331915.	2010/61	331956.	2466/60
331916.	2012/60	331957.	2623/58
331917.	2022/60	331958.	2974/58
331918.	2027/60	331959.	2976/60
331919.	2057/58	331960.	398/59
331920.	2064/58	331961.	984/60
331921.	2070/59	331962.	987/59
331922.	2073/58	331963.	991/61
331923.	2075/58	331964.	1023/59
331924.	2082/58	331965.	1106/58
331925.	2085/58	331966.	1117/59
331926.	2097/58	331967.	1272/61

331800 to 333282—Continued

331800 to 332307—Continued

331968.	1332/58	332009.	67-92-2
331969.	1339/58	332010.	67-92-3
331970.	1361/59	332011.	66-92-4
331971.	1665/59	332012.	67-92-5
331972.	1667/59	332013.	67-92-6
331973.	2299/58	332014.	67-92-7
331974.	2360/60	332015.	67-92-8
331975.	2467/59	332016.	67-92-9
331976.	3215/58	332017.	67-93-1
331977.	W Hor 304/61	332018.	67-93-2
331978.	W Hor 308/60	332019.	67-93-3
331979.	W Hor 800/61	332020.	67-93-4
331980.	W Hor 2267/60	332021.	67-93-5
331981.	A.S 142/60	332022.	67-93-6
331982.	67-3-2	332023.	67-93-8
331983.	67-3-3	332024.	67-93-9
331984.	67-4-1	332025.	67-93-10
331985.	67-5-2	332026.	67-96-1
331986.	67-7-1	332027.	67-96-3
331987.	67-8-7	332028.	67-96-4
331988.	67-10-2	332029.	67-96-5
331989.	67-28-1	332030.	67-96-6
331990.	67-28-2	332031.	67-96-10
331991.	67-28-3	332032.	67-97-1
331992.	67-28-4	332033.	67-97-12
331993.	67-28-5	332034.	67-98-1
331994.	67-28-6	332035.	67-99-1
331995.	67-45-1	332036.	67-100-1
331996.	67-46-2	332037.	67-103-1
331997.	67-47-1	332038.	67-103-2
331998.	67-47-2	332039.	67-104-1
331999.	67-47-3	332040.	67-104-2
332000.	67-47-8	332041.	67-104-3
332001.	67-48-1	332042.	67-104-4
332002.	67-48-2	332043.	67-104-5
332003.	67-56-1	332044.	67-104-6
332004.	67-89-1	332045.	67-104-7
332005.	67-89-2	332046.	67-104-8
332006.	67-89-3	332047.	67-104-9
332007.	67-91-1	332048.	67-105-1
332008.	67-92-1	332049.	67-105-2

331800 to 333282—Continued

331800 to 332307—Continued

332050.	67-105-3	332091.	67-111-12
332051.	67-105-4	332092.	67-112-1
332052.	67-105-5	332093.	67-112-2
332053.	67-105-6	332094.	67-112-3
332054.	67-105-7	332095.	67-112-4
332055.	67-105-10	332096.	67-112-5
332056.	67-105-11	332097.	67-112-6
332057.	67-105-12	332098.	67-112-7
332058.	67-106-1	332099.	67-113-2
332059.	67-106-2	332100.	67-113-3
332060.	67-106-3	332101.	67-113-4
332061.	67-106-4	332102.	67-113-5
332062.	67-106-5	332103.	67-113-6
332063.	67-106-7	332104.	67-113-7
332064.	67-106-8	332105.	67-114-1
332065.	67-106-9	332106.	67-114-3
332066.	67-106-11	332107.	67-114-4
332067.	67-107-1	332108.	67-114-5
332068.	67-107-2	332109.	67-114-6
332069.	67-107-3	332110.	67-114-7
332070.	67-107-4	332111.	67-114-8
332071.	67-107-5	332112.	67-114-9
332072.	67-107-6	332113.	67-115-1
332073.	67-107-7	332114.	67-115-2
332074.	67-107-8	332115.	67-115-3
332075.	67-107-9	332116.	67-115-4
332076.	67-107-10	332117.	67-115-5
332077.	67-107-11	332118.	67-115-6
332078.	67-108-2	332119.	67-115-7
332079.	67-108-4	332120.	67-115-8
332080.	67-108-5	332121.	67-115-9
332081.	67-109-1	332122.	67-115-10
332082.	67-109-1	332123.	67-115-11
332083.	67-110-2	332124.	67-116-1
332084.	67-111-2	332125.	67-116-2
332085.	67-111-3	332126.	67-116-3
332086.	67-111-5	332127.	67-116-4
332087.	67-111-6	332128.	67-116-5
332088.	67-111-7	332129.	67-127
332089.	67-111-10	332130.	67-144-2
332090.	67-111-11	332131.	67-144-3

331800 to 333282—Continued

331800 to 332307—Continued

332132.	67-152-1	332173.	67-165-6
332133.	67-152-2	332174.	67-165-7
332134.	67-152-3	332175.	67-165-9
332135.	67-152-4	332176.	67-165-10
332136.	67-152-5	332177.	67-165-11
332137.	67-152-6	332178.	67-167-1
332138.	67-152-7	332179.	67-167-2
332139.	67-152-8	332180.	67-167-3
332140.	67-152-9	332181.	67-167-4
332141.	67-152-10	332182.	67-167-5
332142.	67-153-9	332183.	67-167-6
332143.	67-153-10	332184.	67-169-1
332144.	67-153-11	332185.	67-169-2
332145.	67-156-1	332186.	67-170-1
332146.	67-156-2	332187.	67-170-2
332147.	67-156-3	332188.	67-170-3
332148.	67-156-4	332189.	67-170-4
332149.	67-156-5	332190.	67-170-5
332150.	67-156-6	332191.	67-170-6
332151.	67-156-7	332192.	67-170-7
332152.	67-156-8	332193.	67-170-9
332153.	67-156-9	332194.	67-175-1
332154.	67-156-10	332195.	67-175-2
332155.	67-156-11	332196.	67-175-3
332156.	67-156-12	332197.	67-175-4
332157.	67-160-2	332198.	67-175-9
332158.	67-160-3	332199.	67-175-10
332159.	67-160-4	332200.	67-175-11
332160.	67-160-5	332201.	67-175-12
332161.	67-160-6	332202.	67-176-1
332162.	67-160-7	332203.	67-176-2
332163.	67-160-8	332204.	67-176-3
332164.	67-160-9	332205.	67-176-4
332165.	67-161-1	332206.	67-176-5
332166.	67-161-2	332207.	67-176-6
332167.	67-161-3	332208.	67-176-7
332168.	67-165-1	332209.	67-176-8
332169.	67-165-2	332210.	67-179-1
332170.	67-165-3	332211.	67-181-1
332171.	67-165-4	332212.	67-181-2
332172.	67-165-5	332213.	67-182-1

331800 to 333282—Continued

331800 to 332307—Continued

332214.	67-182-2	332255.	67-247-2
332215.	67-182-3	332256.	67-247-3
332216.	67-182-4	332257.	67-247-4
332217.	67-182-5	332258.	67-248-1
332218.	67-182-6	332259.	67-248-2.
332219.	67-183-1	332260.	67-248-3
332220.	67-183-2	332261.	67-248-4
332221.	67-184-2	332262.	67-248-5
332222.	67-184-3	332263.	67-248-7
332223.	67-185-1	332264.	67-248-8
332224.	67-185-4	332265.	67-261
332225.	67-186-1	332266.	67-275-1
332226.	67-186-2	332267.	67-278-1
332227.	67-186-3	332268.	67-278-2
332228.	67-186-4	332269.	67-332-2
332229.	67-186-5	332270.	67-332-3
332230.	67-186-6	332271.	67-332-4
332231.	67-187-1	332272.	67-332-5
332232.	67-187-2	332273.	67-332-6
332233.	67-187-3	332274.	67-332-7
332234.	67-190-2	332275.	67-332-8
332235.	67-193-1	332276.	67-355-3
332236.	67-194-1	332277.	67-365-1
332237.	67-194-2	332278.	67-365-2
332238.	67-194-3	332279.	67-365-3
332239.	67-200-1	332280.	67-365-4
332240.	67-200-2	332281.	67-365-5
332241.	67-200-3	332282.	67-365-6
332242.	67-202-1	332283.	67-371-1
332243.	67-204-1	332284.	67-382-1
332244.	67-204-2	332285.	67-382-2
332245.	67-204-3	332286.	67-382-3
332246.	67-204-4	332287.	67-382-4
332247.	67-204-5	332288.	67-382-5
332248.	67-204-6	332289.	67-382-6
332249.	67-204-8	332290.	67-382-7
332250.	67-245-1	332291.	67-382-8
332251.	67-245-2	332292.	67-382-9
332252.	67-245-3	332293.	67-382-10
332253.	67-245-6	332294.	67-382-11
332254.	67-247-1	332295.	67-431

331800 to 333282—Continued

331800 to 332307—Continued

332296. 67-433

332297. 67-434

332298. 67-435

332299. 67-436

332300. 67-437

332301. 67-438

332302. 67-440

332303. 67-441

332304. 67-442

332305. 67-443

332306. 67-444

332307. 67-445

332308 to 333239. HORDEUM SPONTANEUM C. Koch Gramineae.

332308. 67-446-1

332309. 67-446-2

332310. 67-446-3

332311. 67-446-4

332312. 67-446-5

332313. 67-446-6

332314. 67-446-7

332315. 67-446-8

332316. 67-446-9

332317. 67-446-10

332318. 67-446-11

332319. 67-446-12

332320. 67-446-13

332321. 67-446-14

332322. 67-446-15

332323. 67-446-16

332324. 67-446-17

332325. 67-446-18

332326. 67-446-19

332327. 67-446-20

332328. 67-446-21

332329. 67-446-22

332330. 67-446-23

332331. 67-446-24

332332. 67-446-25

332333. 67-446-26

332334. 67-446-27

332335. 67-446-28

332336. 67-446-29

332337. 67-446-30

332338. 67-446-31

332339. 67-446-32

332340. 67-446-33

332341. 67-446-34

332342. 67-446-35

332343. 67-446-36

332344. 67-446-37

332345. 67-446-38

332346. 67-446-39

332347. 67-446-40

332348. 67-446-41

332349. 67-446-42

332350. 67-446-43

332351. 67-446-44

332352. 67-446-45

332353. 67-446-46

332354. 67-446-47

332355. 67-446-48

332356. 67-446-49

332357. 67-446-50

332358. 67-446-51

332359. 67-446-52

332360. 67-446-53

332361. 67-446-54

332362. 67-446-55

332363. 67-446-56

332364. 67-446-57

332365. 67-446-58

332366. 67-446-59

332367. 67-446-60

332368. 67-446-61

332369. 67-446-62

332370. 67-446-63

332371. 67-446-64

332372. 67-446-65

332373. 67-446-66

332374. 67-446-67

332375. 67-446-68

331800 to 333282—Continued**332308 to 333239—Continued**

332376.	67-446-69	332417.	67-446-110
332377.	67-446-70	332418.	67-446-111
332378.	67-446-71	332419.	67-446-112
332379.	67-446-72	332420.	67-446-113
332380.	67-446-73	332421.	67-446-114
332381.	67-446-74	332422.	67-446-115
332382.	67-446-75	332423.	67-446-116
332383.	67-446-76	332424.	67-446-117
332384.	67-446-77	332425.	67-446-118
332385.	67-446-78	332426.	67-446-119
332386.	67-446-79	332427.	67-446-120
332387.	67-446-80	332428.	67-446-121
332388.	67-446-81	332429.	67-446-122
332389.	67-446-82	332430.	67-446-123
332390.	67-446-83	332431.	67-446-124
332391.	67-446-84	332432.	67-446-125
332392.	67-446-85	332433.	67-446-126
332393.	67-446-86	332434.	67-446-127
332394.	67-446-87	332435.	67-446-128
332395.	67-446-88	332436.	67-446-129
332396.	67-446-89	332437.	67-446-130
332397.	67-446-90	332438.	67-446-131
332398.	67-446-91	332439.	67-446-132
332399.	67-446-92	332440.	67-446-133
332400.	67-446-93	332441.	67-446-134
332401.	67-446-94	332442.	67-446-135
332402.	67-446-95	332443.	67-446-136
332403.	67-446-96	332444.	67-446-137
332404.	67-446-97	332445.	67-446-138
332405.	67-446-98	332446.	67-446-139
332406.	67-446-99	332447.	67-446-140
332407.	67-446-100	332448.	67-446-141
332408.	67-446-101	332449.	67-446-142
332409.	67-446-102	332450.	67-446-143
332410.	67-446-103	332451.	67-446-144
332411.	67-446-104	332452.	67-446-145
332412.	67-446-105	332453.	67-446-146
332413.	67-446-106	332454.	67-446-147
332414.	67-446-107	332455.	67-446-148
332415.	67-446-108	332456.	67-446-149
332416.	67-446-109	332457.	67-446-150

331800 to 333282—Continued

332308 to 333239—Continued

332458.	67-446-151	332499.	67-446-192
332459.	67-446-152	332500.	67-446-193
332460.	67-446-153	332501.	67-446-194
332461.	67-446-154	332502.	67-446-195
332462.	67-446-155	332503.	67-446-196
332463.	67-446-156	332504.	67-446-197
332464.	67-446-157	332505.	67-446-198
332465.	67-446-158	332506.	67-446-199
332466.	67-446-159	332507.	67-446-200
332467.	67-446-160	332508.	67-446-201
332468.	67-446-161	332509.	67-446-202
332469.	67-446-162	332510.	67-446-203
332470.	67-446-163	332511.	67-446-204
332471.	67-446-164	332512.	67-446-205
332472.	67-446-165	332513.	67-446-206
332473.	67-446-166	332514.	67-446-207
332474.	67-446-167	332515.	67-446-208
332475.	67-446-168	332516.	67-446-209
332476.	67-446-169	332517.	67-446-210
332477.	67-446-170	332518.	67-446-211
332478.	67-446-171	332519.	67-446-212
332479.	67-446-172	332520.	67-446-213
332480.	67-446-173	332521.	67-446-214
332481.	67-446-174	332522.	67-446-215
332482.	67-446-175	332523.	67-446-216
332483.	67-446-176	332524.	67-446-217
332484.	67-446-177	332525.	67-446-218
332485.	67-446-178	332526.	67-446-219
332486.	67-446-179	332527.	67-446-220
332487.	67-446-180	332528.	67-446-221
332488.	67-446-181	332529.	67-446-222
332489.	67-446-182	332530.	67-446-223
332490.	67-446-183	332531.	67-446-224
332491.	67-446-184	332532.	67-446-225
332492.	67-446-185	332533.	67-446-226
332493.	67-446-186	332534.	67-446-227
332494.	67-446-187	332535.	67-446-228
332495.	67-446-188	332536.	67-446-229
332496.	67-446-189	332537.	67-446-230
332497.	67-446-190	332538.	67-446-231
332498.	67-446-191	332539.	67-446-232

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332540.	67-446-233	332581.	67-446-274
332541.	67-446-234	332582.	67-446-275
332542.	67-446-235	332583.	67-446-276
332543.	67-446-236	332584.	67-446-277
332544.	67-446-237	332585.	67-446-278
332545.	67-446-238	332586.	67-446-279
332546.	67-446-239	332587.	67-446-280
332547.	67-446-240	332588.	67-446-281
332548.	67-446-241	332589.	67-446-282
332549.	67-446-242	332590.	67-446-283
332550.	67-446-243	332591.	67-446-284
332551.	67-446-244	332592.	67-446-285
332552.	67-446-245	332593.	67-446-286
332553.	67-446-246	332594.	67-446-287
332554.	67-446-247	332595.	67-446-288
332555.	67-446-248	332596.	67-446-289
332556.	67-446-249	332597.	67-446-290
332557.	67-446-250	332598.	67-446-291
332558.	67-446-251	332599.	67-446-292
332559.	67-446-252	332600.	67-446-293
332560.	67-446-253	332601.	67-446-294
332561.	67-446-254	332602.	67-446-295
332562.	67-446-255	332603.	67-446-296
332563.	67-446-256	332604.	67-446-297
332564.	67-446-257	332605.	67-446-298
332565.	67-446-258	332606.	67-446-299
332566.	67-446-259	332607.	67-446-300
332567.	67-446-260	332608.	67-446-301
332568.	67-446-261	332609.	67-446-302
332569.	67-446-262	332610.	67-446-303
332570.	67-446-263	332611.	67-446-304
332571.	67-446-264	332612.	67-446-305
332572.	67-446-265	332613.	67-446-306
332573.	67-446-266	332614.	67-446-307
332574.	67-446-267	332615.	67-446-308
332575.	67-446-268	332616.	67-446-309
332576.	67-446-269	332617.	67-446-310
332577.	67-446-270	332618.	67-446-311
332578.	67-446-271	332619.	67-446-312
332579.	67-446-272	332620.	67-446-313
332580.	67-446-273	332621.	67-446-314

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332622.	67-446-315	332663.	67-446-356
332623.	67-446-316	332664.	67-446-357
332624.	67-446-317	332665.	67-446-358
332625.	67-446-318	332666.	67-446-359
332626.	67-446-319	332667.	67-446-360
332627.	67-446-320	332668.	67-446-361
332628.	67-446-321	332669.	67-446-362
332629.	67-446-322	332670.	67-446-363
332630.	67-446-323	332671.	67-446-364
332631.	67-446-324	332672.	67-446-365
332632.	67-446-325	332673.	67-446-366
332633.	67-446-326	332674.	67-446-367
332634.	67-446-327	332675.	67-446-368
332635.	67-446-328	332676.	67-446-369
332636.	67-446-329	332677.	67-446-370
332637.	67-446-330	332678.	67-446-371
332638.	67-446-331	332679.	67-446-372
332639.	67-446-332	332680.	67-446-373
332640.	67-446-333	332681.	67-446-374
332641.	67-446-334	332682.	67-446-375
332642.	67-446-335	332683.	67-446-376
332643.	67-446-336	332684.	67-446-377
332644.	67-446-337	332685.	67-446-378
332645.	67-446-338	332686.	67-446-379
332646.	67-446-339	332687.	67-446-380
332647.	67-446-340	332688.	67-446-381
332648.	67-446-341	332689.	67-446-382
332649.	67-446-342	332690.	67-446-383
332650.	67-446-343	332691.	67-446-384
332651.	67-446-344	332692.	67-446-385
332652.	67-446-345	332693.	67-446-386
332653.	67-446-346	332694.	67-446-387
332654.	67-446-347	332695.	67-447-1
332655.	67-446-348	332696.	67-447-2
332656.	67-446-349	332697.	67-447-3
332657.	67-446-350	332698.	67-447-4
332658.	67-446-351	332699.	67-447-5
332659.	67-446-352	332700.	67-447-6
332660.	67-446-353	332701.	67-447-7
332661.	67-446-354	332702.	67-447-8
332662.	67-446-355	332703.	67-447-9

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332704.	67-447-10	332745.	67-447-51
332705.	67-447-11	332746.	67-447-52
332706.	67-447-12	332747.	67-447-53
332707.	67-447-13	332748.	67-447-54
332708.	67-447-14	332749.	67-447-55
332709.	67-447-15	332750.	67-447-56
332710.	67-447-16	332751.	67-447-57
332711.	67-447-17	332752.	67-447-58
332712.	67-447-18	332753.	67-447-59
332713.	67-447-19	332754.	67-447-60
332714.	67-447-20	332755.	67-447-61
332715.	67-447-21	332756.	67-447-62
332716.	67-447-22	332757.	67-447-63
332717.	67-447-23	332758.	67-447-64
332718.	67-447-24	332759.	67-447-65
332719.	67-447-25	332760.	67-447-66
332720.	67-447-26	332761.	67-447-67
332721.	67-447-27	332762.	67-447-68
332722.	67-447-28	332763.	67-447-69
332723.	67-447-29	332764.	67-447-70
332724.	67-447-30	332765.	67-447-71
332725.	67-447-31	332766.	67-447-72
332726.	67-447-32	332767.	67-447-73
332727.	67-447-33	332768.	67-447-74
332728.	67-447-34	332769.	67-447-75
332729.	67-447-35	332770.	67-447-76
332730.	67-447-36	332771.	67-447-77
332731.	67-447-37	332772.	67-447-78
332732.	67-447-38	332773.	67-447-79
332733.	67-447-39	332774.	67-447-80
332734.	67-447-40	332775.	67-447-81
332735.	67-447-41	332776.	67-447-82
332736.	67-447-42	332777.	67-447-83
332737.	67-447-43	332778.	67-447-84
332738.	67-447-44	332779.	67-447-85
332739.	67-447-45	332780.	67-447-86
332740.	67-447-46	332781.	67-447-87
332741.	67-447-47	332782.	67-447-88
332742.	67-447-48	332783.	67-447-89
332743.	67-447-49	332784.	67-447-90
332744.	67-447-50	332785.	67-447-91

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332786.	67-447-92	332827.	67-447-133
332787.	67-447-93	332828.	67-447-134
332788.	67-447-94	332829.	67-447-135
332789.	67-447-95	332830.	67-447-136
332790.	67-447-96	332831.	67-447-137
332791.	67-447-97	332832.	67-447-138
332792.	67-447-98	332833.	67-447-139
332793.	67-447-99	332834.	67-447-140
332794.	67-447-100	332835.	67-447-141
332795.	67-447-101	332836.	67-447-142
332796.	67-447-102	332837.	67-447-143
332797.	67-447-103	332838.	67-447-144
332798.	67-447-104	332839.	67-447-145
332799.	67-447-105	332840.	67-447-146
332800.	67-447-106	332841.	67-447-147
332801.	67-447-107	332842.	67-447-148
332802.	67-447-108	332843.	67-447-149
332803.	67-447-109	332844.	67-447-150
332804.	67-447-110	332845.	67-447-151
332805.	67-447-111	332846.	67-447-152
332806.	67-447-112	332847.	67-447-153
332807.	67-447-113	332848.	67-447-154
332808.	67-447-114	332849.	67-447-155
332809.	67-447-115	332850.	67-447-156
332810.	67-447-116	332851.	67-447-157
332811.	67-447-117	332852.	67-447-158
332812.	67-447-118	332853.	67-447-159
332813.	67-447-119	332854.	67-447-160
332814.	67-447-120	332855.	67-447-161
332815.	67-447-121	332856.	67-447-162
332816.	67-447-122	332857.	67-447-163
332817.	67-447-123	332858.	67-447-164
332818.	67-447-124	332859.	67-447-165
332819.	67-447-125	332860.	67-447-166
332820.	67-447-126	332861.	67-447-167
332821.	67-447-127	332862.	67-447-168
332822.	67-447-128	332863.	67-447-169
332823.	67-447-129	332864.	67-447-170
332824.	67-447-130	332865.	67-447-171
332825.	67-447-131	332866.	67-447-172
332826.	67-447-132	332867.	67-447-173

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332868.	67-447-174	332909.	67-447-215
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332870.	67-447-176	332911.	67-447-217
332871.	67-447-177	332912.	67-447-218
332872.	67-447-178	332913.	67-447-219
332873.	67-447-179	332914.	67-447-220
332874.	67-447-180	332915.	67-447-221
332875.	67-447-181	332916.	67-447-222
332876.	67-447-182	332917.	67-447-223
332877.	67-447-183	332918.	67-447-224
332878.	67-447-184	332919.	67-447-225
332879.	67-447-185	332920.	67-447-226
332880.	67-447-186	332921.	67-447-227
332881.	67-447-187	332922.	67-447-228
332882.	67-447-188	332923.	67-447-229
332883.	67-447-189	332924.	67-447-230
332884.	67-447-190	332925.	67-448-1
332885.	67-447-191	332926.	67-448-2
332886.	67-447-192	332927.	67-448-3
332887.	67-447-193	332928.	67-448-4
332888.	67-447-194	332929.	67-448-5
332889.	67-447-195	332930.	67-448-6
332890.	67-447-196	332931.	67-448-7
332891.	67-447-197	332932.	67-448-8
332892.	67-447-198	332933.	67-448-9
332893.	67-447-199	332934.	67-448-10
332894.	67-447-200	332935.	67-448-11
332895.	67-447-201	332936.	67-448-12
332896.	67-447-202	332937.	67-448-13
332897.	67-447-203	332938.	67-448-14
332898.	67-447-204	332939.	67-448-15
332899.	67-447-205	332940.	67-448-16
332900.	67-447-206	332941.	67-448-17
332901.	67-447-207	332942.	67-448-18
332902.	67-447-208	332943.	67-448-19
332903.	67-447-209	332944.	67-448-20
332904.	67-447-210	332945.	67-448-21
332905.	67-447-211	332946.	67-448-22
332906.	67-447-212	332947.	67-448-23
332907.	67-447-213	332948.	67-448-24
332908.	67-447-214	332949.	67-448-25

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332950.	67-448-26	332991.	67-448-67
332951.	67-448-27	332992.	67-448-68
332952.	67-448-28	332993.	67-448-69
332953.	67-448-29	332994.	67-448-70
332954.	67-448-30	332995.	67-448-71
332955.	67-448-31	332996.	67-448-72
332956.	67-448-32	332997.	67-448-73
332957.	67-448-33	332998.	67-448-74
332958.	67-448-34	332999.	67-448-75
332959.	67-448-35	333000.	67-448-76
332960.	67-448-36	333001.	67-448-77
332961.	67-448-37	333002.	67-448-78
332962.	67-448-38	333003.	67-448-79
332963.	67-448-39	333004.	67-448-80
332964.	67-448-40	333005.	67-448-81
332965.	67-448-41	333006.	67-448-82
332966.	67-448-42	333007.	67-448-83
332967.	67-448-43	333008.	67-448-84
332968.	67-448-44	333009.	67-448-85
332969.	67-448-45	333010.	67-448-86
332970.	67-448-46	333011.	67-448-87
332971.	67-448-47	333012.	67-448-88
332972.	67-448-48	333013.	67-448-89
332973.	67-448-49	333014.	67-448-90
332974.	67-448-50	333015.	67-448-91
332975.	67-448-51	333016.	67-448-92
332976.	67-448-52	333017.	67-448-93
332977.	67-448-53	333018.	67-448-94
332978.	67-448-54	333019.	67-448-95
332979.	67-448-55	333020.	67-448-96
332980.	67-448-56	333021.	67-448-97
332981.	67-448-57	333022.	67-448-98
332982.	67-448-58	333023.	67-448-99
332983.	67-448-59	333024.	67-448-100
332984.	67-448-60	333025.	67-448-101
332985.	67-448-61	333026.	67-448-102
332986.	67-448-62	333027.	67-448-103
332987.	67-448-63	333028.	67-448-104
332988.	67-448-64	333029.	67-448-105
332989.	67-448-65	333030.	67-448-106
332990.	67-448-66	333031.	67-448-107

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333035.	67-448-111	333076.	67-448-152
333036.	67-448-112	333077.	67-448-153
333037.	67-448-113	333078.	67-448-154
333038.	67-448-114	333079.	67-448-155
333039.	67-448-115	333080.	67-448-156
333040.	67-448-116	333081.	67-448-157
333041.	67-448-117	333082.	67-448-158
333042.	67-448-118	333083.	67-448-159
333043.	67-448-119	333084.	67-448-160
333044.	67-448-120	333085.	67-448-161
333045.	67-448-121	333086.	67-448-162
333046.	67-448-122	333087.	67-448-163
333047.	67-448-123	333088.	67-448-164
333048.	67-448-124	333089.	67-448-165
333049.	67-448-125	333090.	67-448-166
333050.	67-448-126	333091.	67-448-167
333051.	67-448-127	333092.	67-448-168
333052.	67-448-128	333093.	67-448-169
333053.	67-448-129	333094.	67-448-170
333054.	67-448-130	333095.	67-448-171
333055.	67-448-131	333096.	67-448-172
333056.	67-448-132	333097.	67-448-173
333057.	67-448-133	333098.	67-448-174
333058.	67-448-134	333099.	67-448-175
333059.	67-448-135	333100.	67-448-176
333060.	67-448-136	333101.	67-448-177
333061.	67-448-137	333102.	67-448-178
333062.	67-448-138	333103.	67-448-179
333063.	67-448-139	333104.	67-448-180
333064.	67-448-140	333105.	67-448-181
333065.	67-448-141	333106.	67-448-182
333066.	67-448-142	333107.	67-448-183
333067.	67-448-143	333108.	67-448-184
333068.	67-448-144	333109.	67-448-185
333069.	67-448-145	333110.	67-448-186
333070.	67-448-146	333111.	67-448-187
333071.	67-448-147	333112.	67-448-188
333072.	67-448-148	333113.	67-448-189

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333116.	67-448-192	333157.	67-449-17
333117.	67-448-193	333158.	67-449-18
333118.	67-448-194	333159.	67-449-19
333119.	67-448-195	333160.	67-449-20
333120.	67-448-196	333161.	67-449-21
333121.	67-448-197	333162.	67-449-22
333122.	67-448-198	333163.	67-449-23
333123.	67-448-199	333164.	67-449-24
333124.	67-448-200	333165.	67-449-25
333125.	67-448-201	333166.	67-449-26
333126.	67-448-202	333167.	67-449-27
333127.	67-448-203	333168.	67-449-28
333128.	67-448-204	333169.	67-449-29
333129.	67-448-205	333170.	67-449-30
333130.	67-448-206	333171.	67-449-31
333131.	67-448-207	333172.	67-449-32
333132.	67-448-208	333173.	67-449-33
333133.	67-448-209	333174.	67-449-34
333134.	67-448-210	333175.	67-449-35
333135.	67-448-211	333176.	67-449-36
333136.	67-448-212	333177.	67-449-37
333137.	67-448-213	333178.	67-449-38
333138.	67-448-214	333179.	67-449-39
333139.	67-448-215	333180.	67-449-40
333140.	67-448-216	333181.	67-449-41
333141.	67-449-1	333182.	67-449-42
333142.	67-449-2	333183.	67-449-43
333143.	67-449-3	333184.	67-449-44
333144.	67-449-4	333185.	67-449-45
333145.	67-449-5	333186.	67-449-46
333146.	67-449-6	333187.	67-449-47
333147.	67-449-7	333188.	67-449-48
333148.	67-449-8	333189.	67-449-49
333149.	67-449-9	333190.	67-449-50
333150.	67-449-10	333191.	67-449-51
333151.	67-449-11	333192.	67-449-52
333152.	67-449-12	333193.	67-449-53
333153.	67-449-13	333194.	67-449-54
333154.	67-449-14	333195.	67-449-55

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333196.	67-449-56	333218.	67-449-78
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333198.	67-449-58	333220.	67-449-80
333199.	67-449-59	333221.	67-449-81
333200.	67-449-60	333222.	67-449-82
333201.	67-449-61	333223.	67-449-83
333202.	67-449-62	333224.	67-449-84
333203.	67-449-63	333225.	67-449-85
333204.	67-449-64	333226.	67-449-86
333205.	67-449-65	333227.	67-449-87
333206.	67-449-66	333228.	67-449-88
333207.	67-449-67	333229.	67-449-89
333208.	67-449-68	333230.	67-449-90
333209.	67-449-69	333231.	67-449-91
333210.	67-449-70	333232.	67-449-92
333211.	67-449-71	333233.	67-449-93
333212.	67-449-72	333234.	67-449-94
333213.	67-449-73	333235.	67-449-95
333214.	67-449-74	333236.	67-449-96
333215.	67-449-75	333237.	67-449-97
333216.	67-449-76	333238.	67-449-98
333217.	67-449-77	333239.	67-449-99

333240 to 333282. HORDEUM BULBOSUM L. Gramineae. Bulbous barley

333240.	66-18	333258.	66-113
333241.	66-39	333259.	66-114
333242.	66-40	333260.	66-115
333243.	66-44	333261.	66-116
333244.	66-49	333262.	66-117
333245.	66-82	333263.	66-118
333246.	66-97	333264.	66-119
333247.	66-98	333265.	66-120
333248.	66-99	333266.	66-121
333249.	66-101	333267.	66-122
333250.	66-104	333268.	66-124
333251.	66-105	333269.	66-125
333252.	66-10C	333270.	66-126
333253.	66-107	333271.	66-127
333254.	66-108	333272.	66-128
333255.	66-110	333273.	66-129
333256.	66-111	333274.	66-130
333257.	66-112	333275.	66-131

331800 to 333282—Continued**333240 to 333282—Continued**

333276. 66-132	333280. 66-136
333277. 66-133	333281. 66-137
333278. 66-134	333282. 66-138
333279. 66-135	

333283 to 336898.

From Israel. Seed presented by Faculty of Agriculture, Hebrew University of Jerusalem, Rehovot, under Public Law 480 Project A10-CR-1. Numbered Aug. 1, 1968.

The numbers in parentheses, following a PI number, stand for the races of rust—stem, crown, or both—to which the sample is resistant.

333283 to 335618. AVENA STERILIS L. Gramineae. Animated oats.

333283. 6-1-11	333314. 6-20-12
333284. 6-1-12	333315. 6-20-13
333285. 6-1-13	333316. 6-20-15
333286. 6-3-12	333317. 6-21-12
333287. 6-5-11	333318. 6-30-11
333288. 6-5-13	333319. 6-30-12
333289. 6-5-14	333320. 6-30-13
333290. 6-6-11	333321. 6-33-12
333291. 6-8-12	333322. 6-35-12
333292. 6-10-11	333323. 6-35-15
333293. 6-10-12	333324. 6-41-12
333294. 6-10-13	333325. 6-42-11
333295. 6-11-11	333326. 6-43-11
333296. 6-12-11	333327. 6-43-14
333297. 6-13-13	333328. 6-44-12
333298. 6-14-13	333329. 6-44-13
333299. 6-14-16	333330. 6-52-2-31-1
333300. 6-14-17	333331. 6-52-2-31-2-1
333301. 6-15-11	333332. 652-2-31-3
333302. 6-15-12	333333. 6-52-2-31-3-1
333303. 6-15-13	333334. 6-52-2-31-3-2
333304. 6-15-16	333335. 6-52-2-41
333305. 6-15-17	333336. 6-52-2-42
333306. 6-15-18	333337. 6-52-2-43
333307. 6-18-11	333338. 6-52-2-44
333308. 6-18-12	333339. 6-52-2-45
333309. 6-18-13	333340. 6-52-11
333310. 6-18-14	333341. 6-54-11
333311. 6-18-15	333342. 6-55-11
333312. 6-19-11	333343. 6-55-13
333313. 6-20-11	333344. 6-55-15

333283 to 336898—Continued

333283 to 335618—Continued

333345.	6-55-16	333386.	6-76-4-7-101
333346.	6-55-17	333387.	6-76-4-7-102
333347.	6-58-13	333388.	6-76-4-7-103
333348.	6-58-14	333389.	6-76-4-8-1
333349.	6-58-15	333390.	6-76-4-8-102
333350.	6-69-11	333391.	6-76-4-8-103
333351.	6-69-12	333392.	6-76-4-8-105
333352.	6-69-13	333393.	6-76-4-9-1
333353.	6-70-2-41	333394.	6-76-4-9-101
333354.	6-70-2-44	333395.	6-76-4-10-1
333355.	6-71-11	333396.	6-76-4-10-101
333356.	6-71-13	333397.	6-76-5-1-1
333357.	6-71-14	333398.	6-76-5-1-102
333358.	6-71-16	333399.	6-76-5-3-1
333359.	6-72-11	333400.	6-76-5-4-1
333360.	6-72-13	333401.	6-76-5-5-1
333361.	6-74-12	333402.	6-76-5-6-6
333362.	6-76-2-1-1	333403.	6-76-5-6-41
333363.	6-76-2-2-1	333404.	6-76-5-6-42
333364.	6-76-2-2-102	333405.	6-76-5-6-43
333365.	6-76-2-3-1	333406.	6-76-5-6-44
333366.	6-76-2-4-1	333407.	6-76-5-6-45
333367.	6-76-2-5-1	333408.	6-76-5-8-1
333368.	6-76-2-5-102	333409.	6-76-5-8-1-1
333369.	6-76-2-5-103	333410.	6-76-5-8-1-2
333370.	6-76-3-1-1	333411.	6-76-5-8-103
333371.	6-76-3-1-101	333412.	6-76-5-13-1
333372.	6-76-3-1-104	333413.	6-76-5-13-104
333373.	6-76-3-1-105	333414.	6-76-5-15-1
333374.	6-76-4-1-1	333415.	6-76-5-15-103
333375.	6-76-4-1-103	333416.	6-76-11
333376.	6-76-4-2-1	333417.	6-76-13
333377.	6-76-4-2-102	333418.	6-78-12
333378.	6-76-4-2-103	333419.	6-79-12
333379.	6-76-4-3-1	333420.	6-80-11
333380.	6-76-4-3-101	333421.	6-80-12
333381.	6-76-4-4-1	333422.	6-80-13
333382.	6-76-4-5-1	333423.	6-81-11
333383.	6-76-4-6-1	333424.	6-81-12
333384.	6-76-4-6-102	333425.	6-81-13
333385.	6-76-4-7-1	333426.	6-81-16

333283 to 336898—Continued

333283 to 335618—Continued

333427.	6-81-17	333468.	6-82-5-15-8
333428.	6-81-18	333469.	6-82-5-22-1
333429.	6-81-19	333470.	6-82-5-22-3
333430.	6-82-5-1-1	333471.	6-82-5-22-4
333431.	6-82-5-1-2	333472.	6-82-5-23-1
333432.	6-82-5-1-3	333473.	6-82-5-27
333433.	6-82-5-1-4	333474.	6-82-5-28
333434.	6-82-5-1-4-1	333475.	6-82-5-29
333435.	6-82-5-1-4-2	333476.	6-82-5-37
333436.	6-82-5-1-8	333477.	6-82-11
333437.	6-82-5-2-1	333478.	6-82-12
333438.	6-82-5-2-2	333479.	6-82-14
333439.	6-82-5-2-2-1	333480.	6-82-16
333440.	6-82-5-2-3	333481.	6-83-12
333441.	6-82-5-2-3-1	333482.	6-85-11
333442.	6-82-5-2-3-2	333483.	6-89-3-3-1
333443.	6-82-5-2-4-1	333484.	6-89-3-23-1
333444.	6-82-5-3-1	333485.	6-89-3-24-1
333445.	6-82-5-3-2	333486.	6-89-3-31-1
333446.	6-82-5-3-3	333487.	6-89-3-33-1
333447.	6-82-5-3-6	333488.	6-89-3-34-1
333448.	6-82-5-4-1	333489.	6-89-3-37
333449.	6-82-5-4-2	333490.	6-89-3-42
333450.	6-82-5-4-4	333491.	6-89-12
333451.	6-82-5-5-1	333492.	6-90-3-2-1
333452.	6-82-5-5-4-4	333493.	6-90-3-2-2
333453.	6-82-5-5-6	333494.	6-90-3-2-3
333454.	6-82-5-5-9	333495.	6-90-3-2-4
333455.	6-82-5-5-10	333496.	6-90-3-4-1
333456.	6-82-5-6-1	333497.	6-90-3-4-7
333457.	6-82-5-6-2	333498.	6-90-3-4-9
333458.	6-82-5-6-3	333499.	6-90-3-4-10
333459.	6-82-5-6-7-5	333500.	6-90-3-5-1
333460.	6-82-5-7-1	333501.	6-90-3-5-2
333461.	6-82-5-7-1-1	333502.	6-90-3-5-3
333462.	6-82-5-7-6	333503.	6-90-3-5-4
333463.	6-82-5-7-7	333504.	6-90-3-5-7
333464.	6-82-5-7-8	333505.	6-90-3-5-9
333465.	6-82-5-15-1	333506.	6-90-3-6-1
333466.	6-82-5-15-2	333507.	6-90-3-6-2
333467.	6-82-5-15-3	333508.	6-90-3-6-3

333283 to 336898—Continued**333283 to 335618—Continued**

333509.	6-90-3-6-8	333550.	6-105-5-6-1
333510.	6-90-3-7-1	333551.	6-105-5-6-3
333511.	6-90-3-7-2	333552.	6-105-5-6-7
333512.	6-90-3-7-3	333553.	6-105-5-7-2
333513.	6-90-3-13-1	333554.	6-105-5-15-1
333514.	6-90-3-13-2	333555.	6-105-5-17-10
333515.	6-90-3-17-1	333556.	6-105-5-21-1
333516.	6-90-3-17-2	333557.	6-105-5-21-2
333517.	6-90-3-17-3	333558.	6-105-5-22-1
333518.	6-90-3-32-1-5	333559.	6-105-5-23-2
333519.	6-90-3-66	333560.	6-105-5-25-9
333520.	6-90-13	333561.	6-105-5-34-1
333521.	6-90-14	333562.	6-105-5-35-1
333522.	6-92-5-5-7	333563.	6-105-23-9-1
333523.	6-93-2-2-21-1	333564.	6-107-13
333524.	6-93-3-31	333565.	6-107-15
333525.	6-93-3-32	333566.	6-110-1-33-1
333526.	6-93-4-42	333567.	6-110-13
333527.	6-93-4-43	333568.	6-112-1-4-1
333528.	6-93-44	333569.	6-112-1-4-6
333529.	6-93-4-47	333570.	6-112-1-5-3
333530.	6-93-5-2-22-1	333571.	6-112-1-11-1
333531.	6-93-5-2-23-1	333572.	6-112-1-15-1
333532.	6-94-3-7-6	333573.	6-112-1-15-6
333533.	6-94-3-7-9	333574.	6-112-1-23-1
333534.	6-103-11	333575.	6-112-1-53
333535.	6-105-5-1-1	333576.	6-112-1-54
333536.	6-105-5-1-2	333577.	6-112-11
333537.	6-105-5-2-1	333578.	6-112-12
333538.	6-105-5-2-3	333579.	6-112-13
333539.	6-105-5-2-9	333580.	6-112-14
333540.	6-105-5-2-25-9	333581.	6-113-11
333541.	6-105-5-3-1	333582.	6-113-12
333542.	6-105-5-3-2	333583.	6-113-14
333543.	6-105-5-3-3	333584.	6-113-16
333544.	6-105-5-4-1	333585.	6-113-18
333545.	6-105-5-4-8	333586.	6-113-20
333546.	6-105-5-4-21-1	333587.	6-115-11
333547.	6-105-5-4-25-1	333588.	6-117-12
333548.	6-105-5-5-2	333589.	6-119-12
333549.	6-105-5-5-3	333590.	6-119-13

333283 to 336898—Continued

333283 to 335618—Continued

333591. 6-119-14
 333592. 6-119-15
 333593. 6-119-19
 333594. 6-120-12
 333595. 6-120-14
 333596. 6-120-15
 333597. 6-121-12
 333598. 6-121-13
 333599. 6-121-14
 333600. 6-122-17
 333601. 6-122-18
 333602. 6-122-19
 333603. 6-123-12
 333604. 6-123-14
 333605. 6-123-15
 333606. 6-123-16
 333607. 6-124-11
 333608. 6-124-12
 333609. 6-124-14
 333610. 6-124-15
 333611. 6-125-12
 333612. 6-125-14
 333613. 6-125-15
 333614. 6-126-11
 333615. 6-133-11
 333616. 6-133-12
 333617. 6-133-13
 333618. 6-133-14
 333619. 6-134-14
 333620. 6-134-16
 333621. 6-136-5-35-1
 333622. 6-136-11
 333623. 6-137-12
 333624. 6-137-13
 333625. 6-137-14
 333626. 6-138-11
 333627. 6-146-11
 333628. 6-146-12
 333629. 6-146-13
 333630. 6-148-11
 333631. 6-148-12

333632. 6-148-13
 333633. 6-148-14
 333634. 6-148-15
 333635. 6-148-16
 333636. 6-148-17
 333637. 6-148-18
 333638. 6-152-11
 333639. 6-152-12
 333640. 6-152-13
 333641. 6-152-14
 333642. 6-152-15
 333643. 6-153-4-1-1
 333644. 6-153-4-1-2
 333645. 6-153-4-11-1
 333646. 6-153-4-24-1
 333647. 6-153-4-24-2
 333648. 6-153-4-36
 333649. 6-153-4-37
 333650. 6-153-4-38
 333651. 6-153-4-39
 333652. 6-153-4-42
 333653. 6-153-4-44
 333654. 6-153-12
 333655. 6-153-13
 333656. 6-153-14
 333657. 6-153-15
 333658. 6-154-4-6-1
 333659. 6-163-11
 333660. 6-167-1-7-43
 333661. 6-167-1-43
 333662. 6-167-5-15-6
 333663. 6-167-5-21-1
 333664. 6-167-5-22-1
 333665. 6-167-5-22-2
 333666. 6-167-5-24-9
 333667. 6-167-5-26-1
 333668. 6-167-5-34-6
 333669. 6-167-5-36
 333670. 6-167-5-39
 333671. 6-167-5-40
 333672. 6-167-5-46

333283 to 336898—Continued

333283 to 335618—Continued

333673.	6-168-1-15-1	333714.	6-185-11
333674.	6-168-1-15-6	333715.	6-185-12
333675.	6-168-1-21-1	333716.	6-185-13
333676.	6-168-1-22-6	333717.	6-187-13
333677.	6-168-1-26-6	333718.	6-187-14
333678.	6-168-1-27-7	333719.	6-187-15
333679.	6-168-1-33-6	333720.	6-187-17
333680.	6-168-1-36	333721.	6-189-12
333681.	6-168-1-37	333722.	6-189-14
333682.	6-168-1-38	333723.	6-189-15
333683.	6-168-1-40	333724.	6-190-12
333684.	6-168-1-45-1	333725.	6-191-12
333685.	6-170-12	333726.	6-193-11
333686.	6-171-11	333727.	6-196-18
333687.	6-174-3-31-6	333728.	6-197-12
333688.	6-174-3-33-6	333729.	6-201-12
333689.	6-174-3-34-6	333730.	6-207-11
333690.	6-174-3-36-6	333731.	6-212-11
333691.	6-174-5-1-104	333732.	6-213-12
333692.	6-174-5-2-1	333733.	6-213-13
333693.	6-174-5-3-104	333734.	6-213-14
333694.	6-174-5-3-105	333735.	6-213-15
333695.	6-174-5-4-1	333736.	6-214-12
333696.	6-174-5-5-1	333737.	6-214-13
333697.	6-174-5-5a-201	333738.	6-214-14
333698.	6-174-5-8-1	333739.	6-216-2-2-31-6
333699.	6-174-5-8-2	333740.	6-216-2-2-32-6
333700.	6-174-5-9-1	333741.	6-216-2-11-6
333701.	6-176-1-33-1	333742.	6-216-2-12-1
333702.	6-176-1-33-6	333743.	6-216-2-12-6
333703.	6-176-1-35-6	333744.	6-216-2-13-6
333704.	6-181-13	333745.	6-216-2-24-2
333705.	6-182-11	333746.	6-216-2-32-6
333706.	6-182-12	333747.	6-216-2-35-6
333707.	6-182-13	333748.	6-216-2-36-6
333708.	6-182-14	333749.	6-216-2-44
333709.	6-182-15	333750.	6-216-2-46
333710.	6-182-17	333751.	6-216-2-47
333711.	6-182-18	333752.	6-217-1-35-6
333712.	6-183-16	333753.	6-218-11
333713.	6-183-17	333754.	6-218-13

333283 to 336898—Continued

333283 to 335618—Continued

333755.	6-219-11	333796.	6-240-11
333756.	6-221-12	333797.	6-240-12
333757.	6-221-16	333798.	6-242-11
333758.	6-222-11	333799.	6-246-11
333759.	6-222-12	333800.	6-250-11
333760.	6-222-13	333801.	6-250-12
333761.	6-222-15	333802.	6-250-13
333762.	6-222-16	333803.	6-250-14
333763.	6-223-11	333804.	6-251-11
333764.	6-223-12	333805.	6-251-12
333765.	6-224-11	333806.	6-252-12
333766.	6-224-12	333807.	6-254-11
333767.	6-224-13	333808.	6-254-15
333768.	6-224-14	333809.	6-257-1-4-1
333769.	6-224-16	333810.	6-257-1-5-7-1
333770.	6-225-11	333811.	6-257-1-13-6-1
333771.	6-225-12	333812.	6-257-1-14-1
333772.	6-225-13	333813.	6-257-1-21-1
333773.	6-226-11	333814.	6-257-1-21-2
333774.	6-226-13	333815.	6-257-1-22-1
333775.	6-226-14	333816.	6-257-1-22-2
333776.	6-226-15	333817.	6-257-1-23-1
333777.	6-227-14	333818.	6-257-1-31-6
333778.	6-229-11	333819.	6-257-1-31-7
333779.	6-230-15	333820.	6-257-1-32-6
333780.	6-231-11	333821.	6-257-1-35-1
333781.	6-231-12	333822.	6-257-1-36
333782.	6-231-13	333823.	6-257-1-37
333783.	6-231-15	333824.	6-257-1-40
333784.	6-231-16	333825.	6-257-1-42
333785.	6-232-11	333826.	6-257-14
333786.	6-232-14	333827.	6-257-15
333787.	6-232-15	333828.	6-257-17
333788.	6-235-11	333829.	6-258-11
333789.	6-236-11	333830.	6-258-12
333790.	6-236-12	333831.	6-260-11
333791.	6-236-13	333832.	6-260-12
333792.	6-236-14	333833.	6-261-11
333793.	6-236-15	333834.	6-261-14
333794.	6-239-11	333835.	6-261-15
333795.	6-239-15	333836.	6-261-16

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333837.	6-261-17	333878.	6-290-16
333838.	6-262-11	333879.	6-290-17
333839.	6-262-12	333880.	6-291-11
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334576.	6-1422	334617.	6-1448
334577.	6-1422-130	334618.	6-1449
334578.	6-1422-131	334619.	6-1449-101
334579.	6-1422-132	334620.	6-1450
334580.	6-1423	334621.	6-1450-1-4
334581.	6-1424	334622.	6-1451
334582.	6-1424-130	334623.	6-1451-120
334583.	6-1424-131	334624.	6-1452
334584.	6-1425	334625.	6-1453
334585.	6-1426	334626.	6-1454
334586.	6-1426-1	334627.	6-1454-1
334587.	6-1427	334628.	6-1456
334588.	6-1428	334629.	6-1456-130
334589.	6-1429	334630.	6-1457
334590.	6-1430	334631.	6-1458
334591.	6-1430-101	334632.	6-1460
334592.	6-1431-102	334633.	6-1462
334593.	6-1433	334634.	6-1462-1
334594.	6-1433-130	334635.	6-1462-111
334595.	6-1434	334636.	6-1462-114
334596.	6-1434-113	334637.	6-1462-115
334597.	6-1435-130	334638.	6-1462-115-415
334598.	6-1436	334639.	6-1462-116
334599.	6-1437	334640.	6-1462-119
334600.	6-1438	334641.	6-1463
334601.	6-1438-130	334642.	6-1466
334602.	6-1438-131	334643.	6-1468
334603.	6-1439	334644.	6-1469
334604.	6-1439-1	334645.	6-1469-2
334605.	6-1440	334646.	6-1470-1
334606.	6-1440-130	334647.	6-1472-112
334607.	6-1441	334648.	6-1475
334608.	6-1441-130	334649.	6-1479
334609.	6-1442	334650.	6-1480-1
334610.	6-1442-130	334651.	6-1481
334611.	6-1443	334652.	6-1483
334612.	6-1443-1	334653.	6-1496-1
334613.	6-1444	334654.	6-1501-1
334614.	6-1444-1	334655.	6-1506-1
334615.	6-1445	334656.	6-1507

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334657.	6-1511-1	334698.	6-1567-131
334658.	6-1516-1	334699.	6-1567-132
334659.	6-1521-1	334700.	6-1568-130
334660.	6-1524-1-4	334701.	6-1569-130
334661.	6-1524-2-1	334702.	6-1570
334662.	6-1526-1	334703.	6-1570-1
334663.	6-1527	334704.	6-1572
334664.	6-1531-1	334705.	6-1572-130
334665.	6-1535	334706.	6-1573
334666.	6-1538	334707.	6-1575
334667.	6-1539	334708.	6-1576
334668.	6-1540	334709.	6-1576-1-4
334669.	6-1541-8-2	334710.	6-1576-1-6
334670.	6-1541-9	334711.	6-1576-1-8
334671.	6-1541-10	334712.	6-1576-2
334672.	6-1541-10-4	334713.	6-1576-2-1
334673.	6-1541-112	334714.	6-1577
334674.	6-1542-6	334715.	6-1577-130
334675.	6-1542-7	334716.	6-1577-131
334676.	6-1542-8	334717.	6-1578
334677.	6-1545	334718.	6-1578-130
334678.	6-1546	334719.	6-1578-131-3
334679.	6-1546-3	334720.	6-1579
334680.	6-1552	334721.	6-1580
334681.	6-1552-130	334722.	6-1580-130
334682.	6-1553	334723.	6-1581
334683.	6-1554-1	334724.	6-1581-130
334684.	6-1559-130	334725.	6-1582
334685.	6-1561	334726.	6-1583
334686.	6-1561-130	334727.	6-1584-1
334687.	6-1561-131	334728.	6-1585
334688.	6-1562	334729.	6-1590
334689.	6-1562-130	334730.	6-1590-1
334690.	6-1563	334731.	6-1591
334691.	6-1563-103	334732.	6-1591-130
334692.	6-1563-105	334733.	6-1591-132
334693.	6-1563-114	334734.	6-1593
334694.	6-1563-130	334735.	6-1594
334695.	6-1564-130	334736.	6-1594-1
334696.	6-1566-130	334737.	6-1595
334697.	6-1567-130	334738.	6-1597

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334740.	6-1599	334781.	6-1629-4
334741.	6-1599-130	334782.	6-1630-1
334742.	6-1600	334783.	6-1633
334743.	6-1601	334784.	6-1634
334744.	6-1602	334785.	6-1635
334745.	6-1602-1	334786.	6-1635-6
334746.	6-1603	334787.	6-1635-9
334747.	6-1603-1	334788.	6-1635-24
334748.	6-1604	334789.	6-1636
334749.	6-1605	334790.	6-1636-7
334750.	6-1606	334791.	6-1638
334751.	6-1606-1	334792.	6-1640
334752.	6-1607	334793.	6-1641-1
334753.	6-1608	334794.	6-1645
334754.	6-1608-1	334795.	6-1651-1
334755.	6-1609	334796.	6-1652
334756.	6-1609-1	334797.	6-1653
334757.	6-1610	334798.	6-1653-1
334758.	6-1610-1-1	334799.	6-1656-1
334759.	6-1611	334800.	6-1663
334760.	6-1612	334801.	6-1664-1-1
334761.	6-1612-1	334802.	6-1664-1-2
334762.	6-1613	334803.	6-1665
334763.	6-1613-1	334804.	6-1666
334764.	6-1614-1	334805.	6-1666-21-1
334765.	6-1614-2	334806.	6-1666-21-3
334766.	6-1615-1	334807.	6-1667
334767.	6-1616	334808.	6-1667-21-2
334768.	6-1616-1	334809.	6-1667-21-3
334769.	6-1617	334810.	6-1667-22-1
334770.	6-1618	334811.	6-1667-111
334771.	6-1622	334812.	6-1669
334772.	6-1623	334813.	6-1670
334773.	6-1624-1	334814.	6-1676
334774.	6-1625	334815.	6-1676-1-1
334775.	6-1625-1	334816.	6-1676-5-1
334776.	6-1626	334817.	6-1677-1
334777.	6-1628	334818.	6-1680-1-1
334778.	6-1629	334819.	6-1682
334779.	6-1629-2	334820.	6-1682-1-1

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334823.	6-1682-4	334864.	6-1696-8
334824.	6-1682-5	334865.	6-1696-9
334825.	6-1682-6	334866.	6-1696-22
334826.	6-1682-7	334867.	6-1697
334827.	6-1682-8	334868.	6-1697-1
334828.	6-1682-9	334869.	6-1697-1-2
334829.	6-1683	334870.	6-1697-3
334830.	6-1683-2	334871.	6-1698
334831.	6-1683-6	334872.	6-1698-1
334832.	6-1683-7	334873.	6-1698-2
334833.	6-1683-8	334874.	6-1698-3
334834.	6-1683-23	334875.	6-1703
334835.	6-1684	334876.	6-1703-5
334836.	6-1685-1	334877.	6-1703-6
334837.	6-1686	334878.	6-1703-8
334838.	6-1691	334879.	6-1703-10
334839.	6-1691-2	334880.	6-1703-11
334840.	6-1691-3	334881.	6-1703-13
334841.	6-1691-8	334882.	6-1703-14
334842.	6-1691-9	334883.	6-1703-15
334843.	6-1691-10	334884.	6-1703-21-1
334844.	6-1691-11	334885.	6-1703-23-4
334845.	6-1692	334886.	6-1703-24
334846.	6-1692-10-2	334887.	6-1705
334847.	6-1692-14	334888.	6-1707-1
334848.	6-1692-15	334889.	6-1709
334849.	6-1692-20	334890.	6-1710
334850.	6-1692-23	334891.	6-1710-1
334851.	6-1692-24	334892.	6-1710-2
334852.	6-1693	334893.	6-1710-3
334853.	6-1694	334894.	6-1711
334854.	6-1694-2-1	334895.	6-1711-11
334855.	6-1694-5	334896.	6-1715
334856.	6-1695	334897.	6-1717
334857.	6-1695-1	334898.	6-1717-2
334858.	6-1696	334899.	6-1717-3
334859.	6-1696-1-1	334900.	6-1718
334860.	6-1696-2-1	334901.	6-1718-10
334861.	6-1696-5	334902.	6-1718-11

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334905.	6-1718-22-1	334946.	6-1744-112-407
334906.	6-1718-22-2	334947.	6-1744-113
334907.	6-1718-34	334948.	6-1744-115
334908.	6-1723	334949.	6-1744-116
334909.	6-1723-1	334950.	6-1744-116-406
334910.	6-1723-2	334951.	6-1744-117
334911.	6-1723-3	334952.	6-1745
334912.	6-1723-4	334953.	6-1746
334913.	6-1723-141	334954.	6-1746-1
334914.	6-1725-101	334955.	6-1747
334915.	6-1725-112	334956.	6-1748
334916.	6-1727	334957.	6-1752
334917.	6-1728	334958.	6-1752-1
334918.	6-1729	334959.	6-1753
334919.	6-1729-1	334960.	6-1753-1
334920.	6-1730	334961.	6-1753-2
334921.	6-1730-1	334962.	6-1753-3-5
334922.	6-1730-104	334963.	6-1754-1
334923.	6-1731	334964.	6-1755-101
334924.	6-1731-1	334965.	6-1755-103
334925.	6-1731-132	334966.	6-1756
334926.	6-1732	334967.	6-1756-131
334927.	6-1733	334968.	6-1758
334928.	6-1734	334969.	6-1758-114
334929.	6-1735	334970.	6-1758-120
334930.	6-1736	334971.	6-1758-120-413
334931.	6-1736-2	334972.	6-1758-131
334932.	6-1736-17-3	334973.	6-1759-1
334933.	6-1737	334974.	6-1760
334934.	6-1737-3	334975.	6-1760-1
334935.	6-1737-6	334976.	6-1761
334936.	6-1737-8	334977.	6-1761-31
334937.	6-1738-1	334978.	6-1762-6
334938.	6-1743-2-2	334979.	6-1762-7-2
334939.	6-1743-2-4	334980.	6-1762-7-4
334940.	6-1743-2-5	334981.	6-1762-8-1
334941.	6-1744	334982.	6-1762-8-3
334942.	6-1744-2-1	334983.	6-1762-8-4
334943.	6-1744-3	334984.	6-1763-18

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334986.	6-1763-20	335027.	6-1780-113
334987.	6-1763-21	335028.	6-1780-114
334988.	6-1764-1	335029.	6-1780-114-405
334989.	6-1764-2	335030.	6-1781
334990.	6-1764-3	335031.	6-1782
334991.	6-1766-1	335032.	6-1782-1
334992.	6-1766-2	335033.	6-1783-1
334993.	6-1767-1	335034.	6-1785
334994.	6-1767-2	335035.	6-1785-1
334995.	6-1767-3	335036.	6-1785-112
334996.	6-1767-3-5	335037.	6-1785-112-410
334997.	6-1767-3-6	335038.	6-1785-116
334998.	6-1767-4	335039.	6-1787
334999.	6-1768-1	335040.	6-1787-1
335000.	6-1768-2	335041.	6-1787-2
335001.	6-1769-1	335042.	6-1788
335002.	6-1770	335043.	6-1788-1
335003.	6-1770-12	335044.	6-1789
335004.	6-1771-1	335045.	6-1789-8
335005.	6-1772	335046.	6-1789-9
335006.	6-1772-15	335047.	6-1789-14
335007.	6-1772-15-4	335048.	6-1789-24
335008.	6-1772-15-5	335049.	6-1789-25
335009.	6-1772-16	335050.	6-1790-1
335010.	6-1773-15	335051.	6-1791
335011.	6-1773-16	335052.	6-1792
335012.	6-1773-17	335053.	6-1795
335013.	6-1773-18	335054.	6-1795-1
335014.	6-1773-18-2	335055.	6-1795-1-3
335015.	6-1773-18-3	335056.	6-1795-1-5
335016.	6-1775	335057.	6-1795-119
335017.	6-1775-1	335058.	6-1795-119-407
335018.	6-1777	335059.	6-1796
335019.	6-1777-1	335060.	6-1797-3-2
335020.	6-1778	335061.	6-1797-6-2
335021.	6-1779	335062.	6-1797-12-2
335022.	6-1779-1	335063.	6-1797-15
335023.	6-1779-101	335064.	6-1798
335024.	6-1780	335065.	6-1799
335025.	6-1780-1	335066.	6-1799-1

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335068.	6-1799-3	335109.	6-1833-12-2
335069.	6-1799-4	335110.	6-1833-22-1
335070.	6-1800	335111.	6-1833-22-2
335071.	6-1801	335112.	6-1833-23-1
335072.	6-1802	335113.	6-1833-24-1
335073.	6-1802-1	335114.	6-1833-25-1
335074.	6-1802-1-1	335115.	6-1833-32-1
335075.	6-1802-1-2	335116.	6-1833-43-1
335076.	6-1803-1	335117.	6-1834
335077.	6-1805	335118.	6-1834-1
335078.	6-1806	335119.	6-1835-1
335079.	6-1806-1	335120.	6-1835-2
335080.	6-1813-1	335121.	6-1835-3
335081.	6-1814	335122.	6-1836-1
335082.	6-1814-1	335123.	6-1836-2
335083.	6-1815-1	335124.	6-1836-3
335084.	6-1816	335125.	6-1836-4
335085.	6-1817	335126.	6-1836-5
335086.	6-1818-1	335127.	6-1837-14
335087.	6-1819	335128.	6-1837-15
335088.	6-1819-1	335129.	6-1837-16
335089.	6-1821	335130.	6-1837-17
335090.	6-1821-1	335131.	6-1837-17-4
335091.	6-1822	335132.	6-1838
335092.	6-1822-1	335133.	6-1838-10
335093.	6-1823	335134.	6-1838-11
335094.	6-1823-1	335135.	6-1838-12
335095.	6-1824	335136.	6-1839-16
335096.	6-1826	335137.	6-1839-17
335097.	6-1826-130	335138.	6-1839-18
335098.	6-1828	335139.	6-1839-19
335099.	6-1828-1	335140.	6-1839-19-2
335100.	6-1826-5	335141.	6-1840-1
335101.	6-1829-2	335142.	6-1840-2
335102.	6-1829-4	335143.	6-1841-18
335103.	6-1831	335144.	6-1841-19
335104.	6-1831-1	335145.	6-1841-20
335105.	6-1832	335146.	6-1842-1
335106.	6-1832-1	335147.	6-1843-1
335107.	6-1833	335148.	6-1843-2

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335152.	6-1845-21	335193.	6-1862
335153.	6-1846-1	335194.	6-1863-1
335154.	6-1847	335195.	6-1864
335155.	6-1847-1	335196.	6-1864-2
335156.	6-1847-2	335197.	6-1864-3
335157.	6-1847-3	335198.	6-1864-4
335158.	6-1847-3-2	335199.	6-1865
335159.	6-1849	335200.	6-1865-1-8
335160.	6-1849-1	335201.	6-1865-1-9
335161.	6-1849-2	335202.	6-1865-1-10
335162.	6-1850	335203.	6-1866-2
335163.	6-1850-17-1	335204.	6-1868
335164.	6-1851-1	335205.	6-1868-1
335165.	6-1851-2	335206.	6-1869-1
335166.	6-1851-3	335207.	6-1869-2
335167.	6-1851-4	335208.	6-1869-3
335168.	6-1852-1	335209.	6-1870
335169.	6-1852-1-3	335210.	6-1870-1
335170.	6-1852-1-4	335211.	6-1870-2
335171.	6-1853-1	335212.	6-1870-4
335172.	6-1854-1	335213.	6-1870-6
335173.	6-1854-2	335214.	6-1870-7
335174.	6-1854-2-3	335215.	6-1870-8
335175.	6-1854-2-5	335216.	6-1870-10
335176.	6-1854-3	335217.	6-1870-13
335177.	6-1855-1	335218.	6-1871
335178.	6-1856	335219.	6-1872
335179.	6-1857	335220.	6-1873
335180.	6-1857-12	335221.	6-1873-1-2
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335182.	6-1857-14	335223.	6-1873-6
335183.	6-1858-1	335224.	6-1873-7-1
335184.	6-1859-2	335225.	6-1873-7-2
335185.	6-1859-3	335226.	6-1873-7-3
335186.	6-1859-4	335227.	6-1873-8-2
335187.	6-1859-5	335228.	6-1873-10
335188.	6-1860-1	335229.	6-1873-11-1
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 335247. 6-1890-1
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 335249. 6-1895-1
 335250. 6-1901-1
 335251. 6-1903
 335252. 6-1910-1
 335253. 6-1915
 335254. 6-1915-22
 335255. 6-1916
 335256. 6-1916-2-1
 335257. 6-1916-3
 335258. 6-1916-4
 335259. 6-1917
 335260. 6-1917-1-1
 335261. 6-1917-1-2
 335262. 6-1917-1-3
 335263. 6-1917-1-4
 335264. 6-1917-3
 335265. 6-1917-6
 335266. 6-1917-10-1
 335267. 6-1917-10-2
 335268. 6-1917-21-2
 335269. 6-1917-22-1
 335270. 6-1917-22-2
 335271. 6-1917-23

335272. 6-1918
 335273. 6-1918-1-1
 335274. 6-1919
 335275. 6-1919-3
 335276. 6-1920
 335277. 6-1921
 335278. 6-1921-2
 335279. 6-1921-10
 335280. 6-1921-13
 335281. 6-1921-16-5
 335282. 6-1921-17-1
 335283. 6-1921-18
 335284. 6-1922
 335285. 6-1922-23
 335286. 6-1922-25-1
 335287. 6-1922-26
 335288. 6-1922-26-1
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 335290. 6-1923-11
 335291. 6-1923-12
 335292. 6-1923-13-1
 335293. 6-1923-13-2
 335294. 6-1924
 335295. 6-1925-1
 335296. 6-1926
 335297. 6-1926-1
 335298. 6-1929
 335299. 6-1931
 335300. 6-1931-1
 335301. 6-1937-1
 335302. 6-1938
 335303. 6-1939
 335304. 6-1942-1
 335305. 6-1945-1
 335306. 6-1946
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 335308. 6-1948
 335309. 6-1950-1
 335310. 6-1951
 335311. 6-1955-1
 335312. 6-1957

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335313.	6-1958	335354.	6-2034
335314.	6-1959	335355.	6-2034-1
335315.	6-1960	335356.	6-2035-1
335316.	6-1961	335357.	6-2036
335317.	6-1966-130	335358.	6-2037
335318.	6-1970	335359.	6-2039
335319.	6-1971-1	335360.	6-2040
335320.	6-1972	335361.	6-2040-1-6
335321.	6-1977	335362.	6-2041-1
335322.	6-1978	335363.	6-2043-111
335323.	6-1978-1	335364.	6-2047
335324.	6-1981	335365.	6-2047-1
335325.	6-1982	335366.	6-2048-1
335326.	6-1983-1	335367.	6-2049
335327.	6-1987	335368.	6-2049-1
335328.	6-1988	335369.	6-2050
335329.	6-1988-1	335370.	6-2051-1
335330.	6-1994	335371.	6-2052
335331.	6-1996-1	335372.	6-2056-1
335332.	6-1997-1	335373.	6-2061
335333.	6-1998-1	335374.	6-2062
335334.	6-2000-1	335375.	6-2064-1
335335.	6-2003-1	335376.	6-2065
335336.	6-2008-1	335377.	6-2067
335337.	6-2009	335378.	6-2068
335338.	6-2015-1	335379.	6-2069
335339.	6-2020	335380.	6-2070
335340.	6-2021-1	335381.	6-2070-3-4
335341.	6-2021-102	335382.	6-2070-3-5
335342.	6-2022-1	335383.	6-2071
335343.	6-2023-1	335384.	6-2072-1
335344.	6-2024-1	335385.	6-2074-6-1
335345.	6-2025	335386.	6-2074-6-2
335346.	6-2025-101	335387.	6-2077-1
335347.	6-2026	335388.	6-2085-1
335348.	6-2026-21	335389.	6-2095-1
335349.	6-2027	335390.	6-2097-111
335350.	6-2031-1	335391.	6-2102-1
335351.	6-2032	335392.	6-2108
335352.	6-2032-1	335393.	6-2109-1
335353.	6-2033-1	335394.	6-2111-302

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335395.	6-2115-1	335436.	6-2235-402
335396.	6-2121-1	335437.	6-2240-401
335397.	6-2124-1-2	335438.	6-2242-301
335398.	6-2126-1-1	335439.	6-2247-401
335399.	6-2128-1	335440.	6-2260-404
335400.	6-2128-3	335441.	6-2263-402
335401.	6-2128-4	335442.	6-2265-301
335402.	6-2128-5	335443.	6-2266-301
335403.	6-2129	335444.	6-2266-303
335404.	6-2130	335445.	6-2266-304
335405.	6-2133-2	335446.	6-2269-301
335406.	6-2133-8-1	335447.	6-2272-304
335407.	6-2133-16-1	335448.	6-2275-302
335408.	6-2134	335449.	6-2276-301
335409.	6-2135	335450.	6-2291-410
335410.	6-2136-4-1	335451.	6-2292-401
335411.	6-2136-4-2	335452.	6-2299-401
335412.	6-2136-6-1	335453.	6-2314-401
335413.	6-2137-1-4	335454.	6-2320-301
335414.	6-2140-4-2	335455.	6-2326-401
335415.	6-2140-4-3	335456.	6-2328-401
335416.	6-2141-1-1	335457.	6-2375-401
335417.	6-2141-1-3	335458.	6-2377-301
335418.	6-2143-2	335459.	6-2385-401
335419.	6-2144-1-3	335460.	6-2404-304
335420.	6-2145-1	335461.	6-2463-301
335421.	6-2146	335462.	6-2470-301
335422.	6-2147	335463.	6-2473-301
335423.	6-2149	335464.	6-2475-301
335424.	6-2150	335465.	6-2483-301
335425.	6-2158	335466.	6-2489-405
335426.	6-2175-303	335467.	6-2490-402
335427.	6-2196-301	335468.	6-2503-303
335428.	6-2196-302	335469.	6-2504-302
335429.	6-2196-303	335470.	6-2504-303
335430.	6-2196-305	335471.	6-2507-302
335431.	6-2197-301	335472.	6-2509-301
335432.	6-2211-301	335473.	6-2509-302
335433.	6-2213-402	335474.	6-2510-301
335434.	6-2219-402	335475.	D11 (70)-15-1
335435.	6-2230-301	335476.	D11 (70)-20-1

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335477.	D11 (70)-20-4	335518.	D40-31-9-2
335478.	D11 (70)-21-1	335519.	D40-31-10-1
335479.	D11 (70)-21-3	335520.	D40-32-1
335480.	D11 (70)-22-4	335521.	D40-32-3
335481.	D11 (71)-14-1	335522.	D40-32-3-2
335482.	D11 (71)-25-1	335523.	D40-32-10-1
335483.	D11 (71)-25-2	335524.	D40-32-10-2
335484.	D11 (71)-33-1	335525.	D40-33-1
335485.	D11 (71)-46-1	335526.	D40-33-2
335486.	D11 (71)-46-7	335527.	D40-33-9
335487.	D11 (264)	335528.	D40-35-1
335488.	D27-23	335529.	D40-35-2
335489.	D40-4-8	335530.	D40-35-3
335490.	D40-4-9	335531.	D40-35-8
335491.	D40-4-10	335532.	D40-39
335492.	D40-11-1	335533.	D40-41
335493.	D40-11-2	335534.	D40-42
335494.	D40-11-10	335535.	D40-42-2
335495.	D40-13-10	335536.	D40-43
335496.	D40-13-12	335537.	D40-44
335497.	D40-13-13	335538.	D40-45
335498.	D40-14-10	335539.	D40-47
335499.	D40-15-1	335540.	D40 (264)
335500.	D40-15-2	335541.	D60 (205)
335501.	D40-15-8	335542.	D60 (264)
335502.	D40-19-9	335543.	D65
335503.	D40-21-7	335544.	D65-21
335504.	D40-21-9	335545.	D65-22
335505.	D40-22	335546.	D65-24
335506.	D40-22-8-1	335547.	D65-25
335507.	D40-22-9	335548.	D136-6-1
335508.	D40-22-10	335549.	D136-6-2
335509.	D40-23-2-1	335550.	D136-6-6
335510.	D40-23-9	335551.	D136-6-9
335511.	D40-23-10	335552.	D136-7-1
335512.	D40-24-2-1	335553.	D136-7-3
335513.	D40-24-6-1	335554.	D136-7-4-3
335514.	D40-31-1	335555.	D136-7-4-4
335515.	D40-31-6	335556.	D136-7-6
335516.	D40-31-7-1	335557.	D136-11-1
335517.	D40-31-9-1	335558.	D136-11-1-1

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335559.	D136-11-2	335589.	D136-41-1
335560.	D136-11-7	335590.	D136-41-7
335561.	D136-11-10	335591.	D136-41-8
335562.	D136-22-3	335592.	D136-41-9
335563.	D136-22-5	335593.	D136 (264)
335564.	D136-22-6	335594.	D137 (264)
335565.	D136-22-7	335595.	D143-1-4
335566.	D136-24-1	335596.	D143-1-5
335567.	D136-24-1-1	335597.	D143-1-6
335568.	D136-24-1-2	335598.	D143-4-2
335569.	D136-24-1-3	335599.	D143-4-5
335570.	D136-24-1-4	335600.	D143-5-3
335571.	D136-24-1-5	335601.	D143-5-5
335572.	D136-24-2	335602.	D143-6-5
335573.	D136-24-3	335603.	D143-23-5
335574.	D136-24-8	335604.	D143-24-6
335575.	D136-31-1	335605.	D143-25-5
335576.	D136-31-2	335606.	D143-31-5
335577.	D136-31-7	335607.	D143-32-5
335578.	D136-33-1	335608.	D143-32-6
335579.	D136-33-2	335609.	D143 (264)
335580.	D136-33-3	335610.	D167-21
335581.	D136-33-6	335611.	D167-22
335582.	D136-33-9	335612.	D167-23
335583.	D136-35-1	335613.	D167-24
335584.	D136-35-6-1	335614.	D167-25
335585.	D136-35-8	335615.	D204-21
335586.	D136-36	335616.	D204-22
335587.	D136-38	335617.	D204-23
335588.	D136-41	335618.	D204-25
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335619.	7-6-2	335629.	7-24-8
335620.	7-20-2	335630.	7-24-8-32
335621.	7-22-3	335631.	7-24-8-34
335622.	7-23-5	335632.	7-24-10
335623.	7-24-3	335633.	7-35-1
335624.	7-24-3-31	335634.	7-35-3
335625.	7-24-3-32	335635.	7-37-1-31
335626.	7-24-3-33	335636.	7-37-1-32
335627.	7-24-3-34	335637.	7-37-1-33
335628.	7-24-3-36	335638.	7-37-1-34

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335639. 7-37-1-35
 335640. 7-37-3-32
 335641. 7-40-4
 335642. 7-51-1
 335643. 7-66-10
 335644. 7-80-4
 335645. 7-83-2
 335646. 7-85-1
 335647. 7-100-4
 335648. 7-115-3
 335649. 7-120-1
 335650. 7-121-5
 335651. 7-123-1
 335652. 7-125-1
 335653. 7-133-1
 335654. 7-133-2
 335655. 7-136-1
 335656. 7-140-4
 335657. 7-143-6
 335658. 7-144-9
 335659. 7-150-2
 335660. 7-151-1
 335661. 7-151-2
 335662. 7-156-3
 335663. 7-156-5
 335664. 7-158-2
 335665. 7-161-7
 335666. 7-163-3
 335667. 7-171-2
 335668. 7-171-3
 335669. 7-177-7
 335670. 7-184-6
 335671. 7-186-1
 335672. 7-186-4
 335673. 7-189-2
 335674. 7-190-4
 335675. 7-190-5
 335676. 7-190-8
 335677. 7-191-6
 335678. 7-191-7
 335679. 7-191-10

335680. 7-192-1
 335681. 7-192-1-31
 335682. 7-192-1-32
 335683. 7-192-1-33
 335684. 7-192-7
 335685. 7-193-1
 335686. 7-196-2
 335687. 7-196-6
 335688. 7-197-8
 335689. 7-197-8-2
 335690. 7-201-5
 335691. 7-203-3
 335692. 7-206-9
 335693. 7-215-1
 335694. 7-215-2
 335695. 7-215-2-31
 335696. 7-215-2-32
 335697. 7-215-2-33
 335698. 7-215-2-34
 335699. 7-215-2-35
 335700. 7-215-2-36
 335701. 7-215-2-37
 335702. 7-217-3
 335703. 7-217-3-31
 335704. 7-217-3-32
 335705. 7-217-3-34
 335706. 7-217-3-35
 335707. 7-217-3-36
 335708. 7-218-2
 335709. 7-219-2
 335710. 7-219-4
 335711. 7-219-12
 335712. 7-220-2
 335713. 7-220-2-31
 335714. 7-220-2-32
 335715. 7-225-1
 335716. 7-228-1
 335717. 7-229-4
 335718. 7-231-9
 335719. 7-232-7
 335720. 7-234-4

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335721.	7-234-4-31	335762.	7-281-10-32
335722.	7-234-4-32	335763.	7-281-10-33
335723.	7-234-8	335764.	7-281-10-34
335724.	7-236-4	335765.	7-281-10-35
335725.	7-250-5	335766.	7-281-10-36
335726.	7-252-5	335767.	7-281-10-37
335727.	7-258-1	335768.	7-281-10-38
335728.	7-258-3	335769.	7-281-10-39
335729.	7-261-4	335770.	7-287-2
335730.	7-261-4-31	335771.	7-287-3
335731.	7-261-4-33	335772.	7-287-7
335732.	7-261-4-34	335773.	7-287-9
335733.	7-261-5	335774.	7-289-3
335734.	7-261-5-31	335775.	7-289-7
335735.	7-261-5-32	335776.	7-290-6
335736.	7-261-5-33	335777.	7-290-8
335737.	7-262-4	335778.	7-291-4
335738.	7-266-10	335779.	7-295-6
335739.	7-273-4	335780.	7-296-2
335740.	7-276-2	335781.	7-308-7
335741.	7-276-2-31	335782.	7-308-8
335742.	7-276-2-32	335783.	7-310-6
335743.	7-276-2-36	335784.	7-311-6
335744.	7-276-2-37	335785.	7-311-9
335745.	7-277-4	335786.	7-311-10
335746.	7-277-5	335787.	7-313-8
335747.	7-278-11	335788.	7-315-9
335748.	7-278-11-31	335789.	7-315-10
335749.	7-278-11-32	335790.	7-317-4
335750.	7-281-7	335791.	7-319-6
335751.	7-281-7-31	335792.	7-319-7
335752.	7-281-7-32	335793.	7-319-8
335753.	7-281-7-33	335794.	7-320-6
335754.	7-281-7-34	335795.	7-320-7
335755.	7-281-7-35	335796.	7-320-7-31
335756.	7-281-7-36	335797.	7-320-7-32
335757.	7-281-7-37	335798.	7-320-7-33
335758.	7-281-7-38	335799.	7-320-7-34
335759.	7-281-9	335800.	7-320-7-36
335760.	7-281-10	335801.	7-320-7-37
335761.	7-281-10-31	335802.	7-320-7-38

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335803.	7-320-7-39	335831.	7-346-6
335804.	7-320-7-40	335832.	7-347-6
335805.	7-320-8	335833.	7-347-7
335806.	7-320-10	335834.	7-347-9
335807.	7-321-6	335835.	7-352-1
335808.	7-321-7	335836.	7-352-5
335809.	7-321-8	335837.	7-353-1
335810.	7-321-9	335838.	7-354-6
335811.	7-321-10	335839.	7-354-7
335812.	7-323-6	335840.	7-354-9
335813.	7-323-8	335841.	7-355-6
335814.	7-325-4	335842.	7-355-10
335815.	7-325-6	335843.	7-362-2
335816.	7-325-7	335844.	7-362-3
335817.	7-325-10	335845.	7-367-3
335818.	7-326-1	335846.	7-370-2
335819.	7-326-9	335847.	7-370-3
335820.	7-326-10	335848.	7-377-9
335821.	7-327-2	335849.	7-378-3-31
335822.	7-328-2	335850.	7-378-3-33
335823.	7-328-4	335851.	7-378-3-34
335824.	7-328-5	335852.	7-378-3-35
335825.	7-328-9	335853.	7-378-3-36
335826.	7-328-10	335854.	7-378-3-38
335827.	7-329-6	335855.	7-379-7
335828.	7-334-4	335856.	7-381-6
335829.	7-344-7	335857.	7-383-6
335830.	7-346-4	335858.	7-385-3

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Animated oats.

335859.	6-27-6	335871.	6-74-3
335860.	6-40-3	335872.	6-76-2
335861.	6-52-2	335873.	6-76-2-1
335862.	6-52-2-1	335874.	6-76-2-2
335863.	6-52-2-31	335875.	6-76-2-3
335864.	6-54-8	335876.	6-76-2-4
335865.	6-59	335877.	6-76-2-5
335866.	6-64-7	335878.	6-76-3-1
335867.	6-70-2	335879.	6-76-4-1
335868.	6-70-2-1	335880.	6-76-4-2
335869.	6-70-2-3	335881.	6-76-4-3
335870.	6-70-2-4	335882.	6-76-4-4

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335883.	6-76-4-5	335924.	6-93-5-3
335884.	6-76-4-6	335925.	6-93-9
335885.	6-76-4-7	335926.	6-94-3-7-8
335886.	6-76-4-9	335927.	6-98
335887.	6-76-4-10	335928.	6-101
335888.	6-76-5-1	335929.	6-102
335889.	6-76-5-2	335930.	6-105
335890.	6-76-5-3	335931.	6-105-2
335891.	6-76-5-4	335932.	6-105-5
335892.	6-76-5-5	335933.	6-105-5-1
335893.	6-76-5-6	335934.	6-105-5-1-6
335894.	6-76-5-7	335935.	6-105-5-1-9
335895.	6-76-5-8	335936.	6-105-5-2
335896.	6-76-5-9	335937.	6-105-5-2-2
335897.	6-76-5-9-1	335938.	6-105-5-2-7
335898.	6-76-5-10	335939.	6-105-5-3
335899.	6-76-5-10-103	335940.	6-105-5-4
335900.	6-76-5-12	335941.	6-105-5-4-21
335901.	6-76-5-13	335942.	6-105-5-4-21-9
335902.	6-76-5-15	335943.	6-105-5-4-25
335903.	6-76-16	335944.	6-105-5-5
335904.	6-82-5	335945.	6-105-5-5-1
335905.	6-82-5-1	335946.	6-105-5-5-8
335906.	6-82-5-1-9	335947.	6-105-5-5-9
335907.	6-82-5-2	335948.	6-105-5-6
335908.	6-90-3-2	335949.	6-105-5-7
335909.	6-90-3-4	335950.	6-105-5-11
335910.	6-90-3-5	335951.	6-105-5-11-7
335911.	6-90-3-6	335952.	6-105-5-13
335912.	6-90-3-6-7	335953.	6-105-5-15
335913.	6-90-3-7	335954.	6-105-5-17
335914.	6-90-3-17	335955.	6-105-5-21
335915.	6-90-3-32-1	335956.	6-105-5-22
335916.	6-93-1	335957.	6-105-5-23
335917.	6-93-2	335958.	6-105-5-24
335918.	6-93-2-2-21-2	335959.	6-105-5-24-1
335919.	6-93-3	335960.	6-105-5-34
335920.	6-93-4	335961.	6-105-5-34-6
335921.	6-93-5	335962.	6-105-5-35
335922.	6-93-5-2	335963.	6-105-5-35-8
335923.	6-93-5-2-22	335964.	6-105-5-35-9

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335965.	6-105-5-42	336006.	6-164-5
335966.	6-105-5-48	336007.	6-167-5
335967.	6-105-5-49	336008.	6-167-5-21
335968.	6-105-5-50	336009.	6-167-5-22
335969.	6-106-6	336010.	6-167-5-24
335970.	6-107-9	336011.	6-167-5-24-6
335971.	6-110-1-2	336012.	6-167-5-26
335972.	6-110-1-6	336013.	6-167-5-37
335973.	6-110-1-36	336014.	6-167-6
335974.	6-110-1-38	336015.	6-167-7
335975.	6-110-2	336016.	6-168-1
335976.	6-110-6	336017.	6-168-1-21
335977.	6-112-1	336018.	6-168-1-22
335978.	6-112-1-5	336019.	6-168-1-26
335979.	6-112-1-11	336020.	6-168-1-27
335980.	6-112-1-15	336021.	6-168-1-33
335981.	6-112-1-49	336022.	6-168-1-45-6
335982.	6-112-1-50	336023.	6-174-3
335983.	6-112-1-55	336024.	6-174-3-4
335984.	6-112-10	336025.	6-174-3-31
335985.	6-115-2	336026.	6-174-3-32
335986.	6-115-2-4	336027.	6-174-3-33
335987.	6-116-4	336028.	6-174-3-34
335988.	6-123-2	336029.	6-174-3-35
335989.	6-125-3-9	336030.	6-174-5-1
335990.	6-128	336031.	6-174-5-2
335991.	6-136-5	336032.	6-174-5-3
335992.	6-136-5-30	336033.	6-174-5-4
335993.	6-136-5-32	336034.	6-174-5-5
335994.	6-136-5-33	336035.	6-174-5-7
335995.	6-136-5-35	336036.	6-174-5-8
335996.	6-138-8	336037.	6-174-5-9
335997.	6-153-1	336038.	6-176-1
335998.	6-153-4	336039.	6-176-1-33
335999.	6-153-4-1	336040.	6-176-1-35
336000.	6-153-4-6	336041.	6-176-2
336001.	6-153-4-11	336042.	6-176-3
336002.	6-153-4-21	336043.	6-187-5
336003.	6-153-4-24	336044.	6-189-4
336004.	6-153-4-25	336045.	6-195
336005.	6-153-4-41	336046.	6-211-9

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336047.	6-214-10	336088.	6-276-10
336048.	6-216-2	336089.	6-280-7
336049.	6-216-2-2	336090.	6-290
336050.	6-216-2-42	336091.	6-294-9
336051.	6-216-5	336092.	6-306-10
336052.	6-230-7	336093.	6-307-11
336053.	6-251-10	336094.	6-310-12
336054.	6-251-10-43	336095.	6-312-11
336055.	6-256-10	336096.	6-312-12
336056.	6-257-1	336097.	6-312-13
336057.	6-257-1-2	336098.	6-312-14
336058.	6-257-1-4	336099.	6-313-5
336059.	6-257-1-5	336100.	6-313-5-1
336060.	6-257-1-6	336101.	6-313-5-1-22
336061.	6-257-1-6-8	336102.	6-313-5-1-22-1
336062.	6-257-1-11	336103.	6-313-5-1-22-2
336063.	6-257-1-13	336104.	6-313-5-1-31
336064.	6-257-1-14	336105.	6-313-5-1-31-6
336065.	6-257-1-21	336106.	6-313-5-2
336066.	6-257-1-21-8	336107.	6-313-5-2-7
336067.	6-257-1-22	336108.	6-313-5-2-8
336068.	6-257-1-23	336109.	6-313-5-3
336069.	6-257-1-23-6	336110.	6-313-5-3-1
336070.	6-257-1-23-8	336111.	6-313-5-3-22
336071.	6-257-1-31	336112.	6-313-5-3-22-1
336072.	6-257-1-32	336113.	6-313-5-3-23
336073.	6-257-1-32-3	336114.	6-313-5-3-31
336074.	6-257-1-34	336115.	6-313-5-3-32
336075.	6-257-1-35	336116.	6-313-5-3-33
336076.	6-257-1-35-6	336117.	6-313-5-3-33-6
336077.	6-257-1-43	336118.	6-313-5-6
336078.	6-257-3	336119.	6-313-5-7
336079.	6-258-7	336120.	6-313-5-7-1
336080.	6-265-5	336121.	6-313-5-7-6
336081.	6-272-1	336122.	6-313-5-7-7
336082.	6-272-4	336123.	6-313-5-11
336083.	6-272-4-1	336124.	6-313-5-11-1
336084.	6-272-4-1-21	336125.	6-313-5-11-2
336085.	6-272-4-3	336126.	6-313-5-17
336086.	6-272-4-23	336127.	6-313-5-21
336087.	6-272-4-32	336128.	6-313-5-21-1

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336129.	6-313-5-21-6	336170.	6-325-15
336130.	6-313-5-21-7	336171.	6-325-16
336131.	6-313-5-22	336172.	6-326-12
336132.	6-313-5-22-1	336173.	6-327-11
336133.	6-313-5-22-7	336174.	6-327-12
336134.	6-313-5-22-8	336175.	6-328-11
336135.	6-313-5-23	336176.	6-328-12
336136.	6-313-5-23-1	336177.	6-328-13
336137.	6-313-5-23-7	336178.	6-328-14
336138.	6-313-5-23-8	336179.	6-328-15
336139.	6-313-5-27	336180.	6-328-16
336140.	6-313-5-27-1	336181.	6-329-12
336141.	6-313-5-27-6	336182.	6-330-11
336142.	6-313-5-31	336183.	6-330-12
336143.	6-313-5-33	336184.	6-330-13
336144.	6-313-5-33-6	336185.	6-330-14
336145.	6-313-5-34	336186.	6-330-15
336146.	6-313-5-34-6	336187.	6-330-16
336147.	6-313-5-36	336188.	6-331-11
336148.	6-313-5-37	336189.	6-331-12
336149.	6-313-5-41	336190.	6-331-14
336150.	6-313-5-44-7	336191.	6-331-16
336151.	6-313-5-45-1	336192.	6-331-18
336152.	6-313-5-45-2	336193.	6-333-12
336153.	6-313-5-45-7	336194.	6-333-16
336154.	6-313-11	336195.	6-335-11
336155.	6-316-14	336196.	6-335-12
336156.	6-316-15	336197.	6-335-13
336157.	6-317-11	336198.	6-335-14
336158.	6-319-2	336199.	6-336-3
336159.	6-322-12	336200.	6-336-3-5
336160.	6-323-11	336201.	6-336-3-5-6
336161.	6-323-14	336202.	6-336-3-7
336162.	6-323-15	336203.	6-336-3-7-6
336163.	6-323-16	336204.	6-336-3-10-6
336164.	6-324-11	336205.	6-336-3-10-7
336165.	6-324-12	336206.	6-336-3-24
336166.	6-324-13	336207.	6-336-3-31
336167.	6-324-15	336208.	6-336-3-35
336168.	6-324-18	336209.	6-336-12
336169.	6-325-14	336210.	6-336-13

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336211.	6-337-11	336252.	6-374-11
336212.	6-337-12	336253.	6-374-14
336213.	6-337-13	336254.	6-374-16
336214.	6-337-14	336255.	6-374-18
336215.	6-337-15	336256.	6-376-12
336216.	6-338-12	336257.	6-376-15
336217.	6-338-13	336258.	6-379-11
336218.	6-338-15	336259.	6-379-12
336219.	6-338-16	336260.	6-381-4
336220.	6-339-11	336261.	6-381-11
336221.	6-340-11	336262.	6-381-12
336222.	6-340-12	336263.	6-390-12
336223.	6-341-12	336264.	6-391-11
336224.	6-341-13	336265.	6-397-12
336225.	6-341-16	366266.	6-397-13
336226.	6-341-18	336267.	6-403-11
336227.	6-341-19	336268.	6-404-15
336228.	6-347-11	336269.	6-409-11
336229.	6-350-11	336270.	6-409-13
336230.	6-350-12	336271.	6-409-15
336231.	6-350-14	336272.	6-409-16
336232.	6-350-16	336273.	6-409-17
336233.	6-360-15	336274.	6-410-13
336234.	6-361-12	336275.	6-410-14
336235.	6-361-13	336276.	6-410-16
336236.	6-361-15	336277.	6-412-12
336237.	6-361-16	336278.	6-414-12
336238.	6-364-4	336279.	6-415-14
336239.	6-366-11	336280.	6-416-11
336240.	6-366-12	336281.	6-416-12
336241.	6-366-14	336282.	6-416-13
336242.	6-368-12	336283.	6-416-14
336243.	6-369-11	336284.	6-416-15
336244.	6-369-12	336285.	6-416-16
336245.	6-371-2	336286.	6-416-17
336246.	6-371-11	336287.	6-417-12
336247.	6-371-12	336288.	6-417-13
336248.	6-371-13	336289.	6-417-16
336249.	6-371-14	336290.	6-417-18
336250.	6-372-11	336291.	6-419-11
336251.	6-372-14	336292.	6-419-13

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336293.	6-425-5	336334.	6-533-7-1
336294.	6-425-11	336335.	6-533-11
336295.	6-425-12	336336.	6-533-16
336296.	6-425-13	336337.	6-535-1-1
336297.	6-425-15	336338.	6-535-1-6
336298.	6-426-5	336339.	6-535-10
336299.	6-440-15	336340.	6-536
336300.	6-440-16	336341.	6-538
336301.	6-440-17	336342.	6-544
336302.	6-444-12	336343.	6-545
336303.	6-444-15	336344.	6-546
336304.	6-444-17	336345.	6-547
336305.	6-444-19	336346.	6-554
336306.	6-448-12	336347.	6-617-13
336307.	6-450-13	336348.	6-622
336308.	6-457-11	336349.	6-622-12
336309.	6-457-14	336350.	6-651
336310.	6-457-15	336351.	6-651-1-1
336311.	6-458-12	336352.	6-651-1-6
336312.	6-459-11	336353.	6-651-4-1
336313.	6-460-12	336354.	6-651-51
336314.	6-463-11	336355.	6-651-52
336315.	6-467-11	336356.	6-678-12
336316.	6-469-12	336357.	6-678-13
336317.	6-469-13	336358.	6-678-14
336318.	6-478-12	336359.	6-679
336319.	6-481-15	336360.	6-679-11
336320.	6-483-11	336361.	6-679-12
336321.	6-484-4	336362.	6-679-13
336322.	6-484-18	336363.	6-679-15
336323.	6-486-11	336364.	6-679-16
336324.	6-489-12	336365.	6-679-17
336325.	6-493-12	336366.	6-681-11
336326.	6-495-1	336367.	6-681-12
336327.	6-503-12	336368.	6-681-14
336328.	6-506-14	336369.	6-681-16
336329.	6-509-12	336370.	6-681-17
336330.	6-519-13	336371.	6-681-18
336331.	6-533	336372.	6-685
336332.	6-533-1-6	336373.	6-688-2
336333.	6-533-1-7	336374.	6-688-11

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336375.	6-708-11	336416.	6-1456-130
336376.	6-711-11	336417.	6-1462-113
336377.	6-711-13	336418.	6-1475-2
336378.	6-714-13	336419.	6-1524-2
336379.	6-784	336420.	6-1585-130
336380.	6-785-2	336421.	6-1586-130
336381.	6-785-3	336422.	6-1598-130
336382.	6-785-4	336423.	6-1610-1
336383.	6-785-5	336424.	6-1616-130
336384.	6-785-7	336425.	6-1629-1
336385.	6-785-16	336426.	6-1635-22
336386.	6-785-17	336427.	6-1635-23
336387.	6-785-19	336428.	6-1635-25
336388.	6-785-20	336429.	6-1661-7
336389.	6-786-50	336430.	6-1664-1
336390.	6-915-1	336431.	6-1664-2
336391.	6-939-11	336432.	6-1668-1
336392.	6-953-101	336433.	6-1676-4
336393.	6-953-102	336434.	6-1676-26
336394.	6-1014-2	336435.	6-1680-7
336395.	6-1014-12	336436.	6-1681-1
336396.	6-1019-2	336437.	6-1694-1
336397.	6-1020-1	336438.	6-1696-2
336398.	6-1023-11	336439.	6-1696-3
336399.	6-1024-11	336440.	6-1703-22
336400.	6-1024-13	336441.	6-1703-23
336401.	6-1026-11	336442.	6-1703-27
336402.	6-1028-16	336443.	6-1703-29
336403.	6-1088-101	336444.	6-1717-1
336404.	6-1293-115	336445.	6-1717-4
336405.	6-1304-113	336446.	6-1718-1
336406.	6-1304-117	336447.	6-1718-2
336407.	6-1304-120	336448.	6-1718-3
336408.	6-1306-101	336449.	6-1718-4
336409.	6-1306-113	336450.	6-1718-6
336410.	6-1319-111	336451.	6-1718-23
336411.	6-1410-111	336452.	6-1718-28
336412.	6-1426-130	336453.	6-1718-29
336413.	6-1450-1	336454.	6-1718-30
336414.	6-1451-116	336455.	6-1718-31
336415.	6-1451-120	336456.	6-1718-32

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336457.	6-1723-22	336498.	6-1812-1
336458.	6-1723-23	336499.	6-1813
336459.	6-1724-1	336500.	6-1833-13
336460.	6-1730-130	336501.	6-1833-26
336461.	6-1735-3	336502.	6-1833-30
336462.	6-1735-4	336503.	6-1833-39
336463.	6-1735-34	336504.	6-1833-40
336464.	6-1735-35	336505.	6-1838-7
336465.	6-1735-1	336506.	6-1844-3
336466.	6-1736-6	336507.	6-1845-19
336467.	6-1736-8	336508.	6-1847-12
336468.	6-1736-9	336509.	6-1850-17
336469.	6-1736-13	336510.	6-1852-2
336470.	6-1736-29	336511.	6-2174-402
336471.	6-1736-30	336512.	6-2174-404
336472.	6-1736-31	336513.	6-2238-302
336473.	6-1736-32	336514.	D11 (264)
336474.	6-1737-1	336515.	D11 (70)-20
336475.	6-1740-6	336516.	D11 (70)-21
336476.	6-1743-1	336517.	D11 (70)-22
336477.	6-1745-2	336518.	D11 (205)
336478.	6-1745-3	336519.	D21 (205)
336479.	6-1753-3	336520.	D22 (203A+18)
336480.	6-1761-11	336521.	D22 (205)
336481.	6-1773-14	336522.	D22 (264)
336482.	6-1789-4	336523.	D23 (203A)
336483.	6-1789-7	336524.	D23 (205)
336484.	6-1789-12	336525.	D25 (203)
336485.	6-1794-6	336526.	D25 (205)
336486.	6-1795-2	336527.	D26 (203)
336487.	6-1797-14	336528.	D27
336488.	6-1798-130	336529.	D31 (203A)
336489.	6-1807	336530.	D31 (205)
336490.	6-1808-1	336531.	D35 (203A+1)
336491.	6-1809	336532.	D37 (203)
336492.	6-1809-1	336533.	D38 (203A+1)
336493.	6-1810-1	336534.	D38 (205)
336494.	6-1810-130	336535.	D40
336495.	6-1811	336536.	D40 (205)
336496.	6-1811-118	336537.	D40 (279)
336497.	6-1812	336538.	D40 (1)

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336539. D40-4	336580. D123 (203)
336540. D40-11	336581. D123 (205)
336541. D40-13	336582. D127 (203)
336542. D40-14	336583. D127 (205)
336543. D40-15	336584. D128
336544. D40-23	336585. D128 (203)
336545. D40-24	336586. D128 (205)
336546. D40-31	336587. D133 (203)
336547. D40-32	336588. D133 (205)
336548. D40-35	336589. D133 (276)
336549. D41 (203)	336590. D133 (279)
336550. D52 (203)	336591. D135 (203)
336551. D53 (203A)	336592. D135 (205)
336552. D56 (203+8)	336593. D136 (205)
336553. D56 (205)	336594. D136 (264)
336554. D68 (203)	336595. D136 (276)
336555. D71 (205)	336596. D136-6
336556. D73 (203)	336597. D136-7
336557. D73 (205)	336598. D136-11
336558. D78	336599. D136-22
336559. D79 (203)	336600. D136-24
336560. D81 (203)	336601. D136-31
336561. D81 (205)	336602. D136-33
336562. D83 (203)	336603. D136-35
336563. D85 (203+1)	336604. D137 (203)
336564. D89 (203)	336605. D139 (203)
336565. D94 (279)	336606. D139 (264)
336566. D96 (203)	336607. D139 (279)
336567. D96 (205)	No sample
336568. D99 (205)	336608. D143 (203)
336569. D100 (279)	336609. D143 (205)
336570. D103 (203)	336610. D143 (276)
336571. D104 (203)	336611. D143-1
336572. D107 (279)	336612. D143-4
336573. D108 (203)	336613. D143-5
336574. D107 (203)	336614. D143-6
336575. D107 (205)	336615. D143-23
336576. D109 (6)	336616. D143-25
336577. D109 (203)	336617. D143-31
336578. D112 (203A+1)	336618. D143-32
336579. D113	336619. D144 (203)

333283 to 336898—Continued

335859 to 336652—Continued

336620.	D144 (205)	336637.	D188 (203)
336621.	D147 (203)	336638.	D188 (205)
336622.	D149 (276)	336639.	D189 (203)
336623.	D157 (205)	336640.	D189 (205)
336624.	D164 (203)	336641.	D192 (205)
336625.	D164 (205)	336642.	D204 (203)
336626.	D164 (279)	336643.	D204 (205)
336627.	D165 (203)	336644.	D207 (203+1)
336628.	D167 (203)	336645.	D207 (205+6A)
336629.	D177	336646.	D212 (203)
336630.	D177 (276)	336647.	D212 (205)
336631.	D179 (203)	336648.	D183 (203)
336632.	D182 (203)	336649.	D185 (203)
336633.	D183 (205)	336650.	D187
336634.	D183 (264)	336651.	D188 (276)
336635.	D184 (279)	336652.	D204 (203)
336636.	D187 (205)		

336653 to 336867. AVENA BARBATA Pott ex Link Gramineae. Slender oats.

336653.	7-127	336676.	D3 (7A)
336654.	7-129	336677.	D3 (203A)
336655.	7-130	336678.	D3 (205)
336656.	7-133	336679.	D3 (264)
336657.	7-151	336680.	D3 (276)
336658.	7-156	336681.	D4
336659.	7-169	336682.	D4 (7A)
336660.	7-180	336683.	D4 (203A)
336661.	7-182	336684.	D4 (205)
336662.	7-186	336685.	D4 (264)
336663.	7-192	336686.	D4 (276)
336664.	7-199	336687.	D13
336665.	7-210	336688.	D13 (276)
336666.	7-220	336689.	D13 (205)
336667.	7-229	336690.	D14
336668.	7-241	336691.	D14 (205)
336669.	7-252	336692.	D17 (7A)
336670.	7-263	336693.	D17 (205)
336671.	7-272	336694.	D20 (264)
336672.	7-290	336695.	D20 (279)
336673.	7-301	336696.	D22 (6)
336674.	7-314	336697.	D23 (264)
336675.	7-320	336698.	D32 (1)

333283 to 336898—Continued

336653 to 336867—Continued

336699.	D32 (6)	336740.	D70 (276+8)
336700.	D32 (6A)	336741.	D70-71 (279)
336701.	D32 (7A)	336742.	D74 (1)
336702.	D32 (1)	336743.	D74 (7A)
336703.	D34 (7A)	336744.	D74 (8)
336704.	D36 (1)	336745.	D77 (203)
336705.	D36 (7A)	336746.	D80
336706.	D42	336747.	D80 (1)
336707.	D45 (203)	336748.	D82 (203A)
336708.	D51	336749.	D86 (1)
336709.	D51 (7A)	336750.	D86 (6)
336710.	D51 (276)	336751.	D86 (6A)
336711.	D54 (1)	336752.	D86 (7A)
336712.	D54 (6A)	336753.	D86 (8)
336713.	D54 (7A)	336754.	D87 (7A)
336714.	D54 (203)	336755.	D87(8)
336715.	D54 (205)	336756.	D87 (203+1)
336716.	D54 (279+7A)	336757.	D87 (203+6A)
336717.	D55 (7A)	336758.	D90
336718.	D55 (8)	336759.	D90 (1)
336719.	D55 (205)	336760.	D93
336720.	D55 (264+1)	336761.	D93 (7A)
336721.	D55 (276)	336762.	D93 (8)
336722.	D58	336763.	D93 (203+1)
336723.	D58 (6)	336764.	D97
336724.	D58 (7A)	336765.	D97 (1)
336725.	D58 (8)	336766.	D97 (6)
336726.	D59	336767.	D97 (6A)
336727.	D59 (1)	336768.	D101 (203)
336728.	D59 (7A)	336769.	D101 (205)
336729.	D59 (203)	336770.	D105 (6A)
336730.	D59 (205)	336771.	D105 (7A)
336731.	D59 (264)	336772.	D105 (8)
336732.	D59 (279)	336773.	D105 (203+1)
336733.	D66 (1)	336774.	D106 (6)
336734.	D66 (6+203)	336775.	D106 (6A)
336735.	D66 (7A)	336776.	D106 (8)
336736.	D66 (8)	336777.	D106 (203A+1)
336737.	D70 (1)	336778.	D106 (205+6A)
336738.	D70 (6)	336779.	D111
336739.	D70 (205)	336780.	D116 (264)

333283 to 336898—Continued

336653 to 336867—Continued

336781.	D116 (276)	336822.	D154
336782.	D119	336823.	D154 (1)
336783.	D119 (7A)	336824.	D159
336784.	D120 (1)	336825.	D159 (203)
336785.	D120 (7A)	336826.	D159 (264+6)
336786.	D120 (205)	336827.	D159 (276)
336787.	D125	336828.	D159 (279)
336788.	D125 (7A)	336829.	D163
336789.	D125 (203)	336830.	D163 (1)
336790.	D125 (279)	336831.	D163 (6)
336791.	D130 (1)	336832.	D163 (6A)
336792.	D130 (6)	336833.	D166
336793.	D130 (7A)	336834.	D166 (205+7A)
336794.	D130 (205+6A)	336835.	D166 (264)
336795.	D130 (264+8)	336836.	D166 (276)
336796.	D137 (205)	336837.	D170 (203)
336797.	D137 (264)	336838.	D178 (203)
336798.	D137 (276)	336839.	D180 (203)
336799.	D138 (7A)	336840.	D180 (205+6A)
336800.	D138 (205)	336841.	D181 (203+1)
336801.	D139	336842.	D190 (203)
336802.	D139 (205)	336843.	D190 (205)
336803.	D141 (1)	336844.	D193 (276)
336804.	D141 (6)	336845.	D194
336805.	D141 (7A)	336846.	D194 (205)
336806.	D141 (8)	336847.	D194 (264+6)
336807.	D141 (205)	336848.	D194 (276)
336808.	D145	336849.	D197 (8)
336809.	D145 (6)	336850.	D197 (203+1)
336810.	D145 (7A)	336851.	D197 (276+8)
336811.	D145 (8)	336852.	D197 (279+7A)
336812.	D145 (203+1)	336853.	D202
336813.	D146 (6)	336854.	D202 (205)
336814.	D146 (6A)	336855.	D202 (264)
336815.	D146 (7A)	336856.	D202 (279)
336816.	D146 (8)	336857.	D203
336817.	D146 (203)	336858.	D203 (8)
336818.	D146 (203+1)	336859.	D203 (205+6A)
336819.	D150 (6)	336860.	D203 (276+8)
336820.	D153 (8)	336861.	D203 (279+7A)
336821.	D153 (276+6)	336862.	D206 (203)

333283 to 336898—Continued

336653 to 336867—Continued

336863. D206 (203+1)	336866. D210 (205)
336864. D207 (1)	336867. D211
336865. D210 (203)	

336868 to 336894. AVENA BARATA var. WIESTII (Steud.) Hausskn. Gramineae.

336868. 8-2.	336882. 8-20.
336869. 8-3.	336883. 8-21.
336870. 8-4.	336884. 8-23.
336871. 8-5.	336885. 8-24.
336872. 8-6.	336886. 8-25.
336873. 8-7.	336887. 8-27.
336874. 8-8.	336888. 8-30.
336875. 8-9.	336889. 8-31.
336876. 8-10.	336890. 8-32.
336877. 8-11.	336891. 8-33.
336878. 8-12.	336892. 8-34.
336879. 8-16.	336893. 8-36.
336880. 8-17.	336894. 8-38.
336881. 8-19.	

336895 to 336898. AVENA LONGIGLUMIS Dur. Gramineae.

336895. 9-1.	336897. 9-3.
336896. 9-2.	336898. 9-4.

336899. ARACHIS PARAGUARIENSIS Chod. & Hassl. Leguminosae.

From Argentina. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Service, Tifton, Ga., and Experiment, Ga. Numbered Aug. 5, 1968.

Col. 330. Faculty of Agronomy and Veterinary, Genetics Garden, Corrientes. To 20 cm. high, erect, sparsely branched; leaves linear, coriaceous.

336900. ORYZA SATIVA L. Gramineae. **Rice.**

From Madagascar. Seed presented by the Director, Institute de Recherches Agronomiques a Madagascar, Tananarive. Numbered Aug. 5, 1968.

No. 803.

336901 to 336908.

From Brazil. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, Ga., and Experiment, Ga. Numbered Aug. 5, 1968.

336901. ARACHIS BENTHAMII Handro Leguminosae.

Col. 578. Mato Grosso State. Forty-two km. west of Rio Parana on BR-34. Perennial, tall, erect; roots fleshy, lateral.

336902 to 336906. ARACHIS HYPOGAEA L.

Mato Grosso State. Porto Murtinho on Paraguay river. Purchased in market.

336902. Col. 580. 'Porto Murtinho' mixture. Valencia and Spanish pod types. Testa flesh.

336901 to 336908—Continued**336902 to 336906—Continued**

336903. Col. 581. 'Porto Murtinho' mixture. Testa purple.

336904. Col. 582. 'Porto Murtinho' mixture. Testa purple. Each seed from different pod.

336905. Col. 583. 'Porto Murtinho' mixture. Testa wine.

336906. Col. 584. Valencia and Spanish pods; testa dark purple.

336907. ARACHIS sp.

Col. 579. Mato Grosso State. Forty-two km. west of Rio Parana, BR-34. Single pod. Perennial, erect; single plants with fleshy tubers.

336908. TRIPSACUM sp. Gramineae.

Col. 561. Mato Grosso State. Eight km. west of Jardim, south of Aquidana, enroute to Porto Murtinho. BR-34. Wet area. Two m. high. Most seed shed.

336909 to 336912.

From Iceland. Seed presented by Ransoknarstofun Landbunadarins, Reykjavik. Received Aug. 1, 1968.

336909. *DESCHAMPSIA CAESPITOSA* (L.) Beauv. Gramineae. Tufted hairgrass.

'Snarrot'.

336910. *FESTUCA RUBRA* L. Gramineae. Red fescue.

'Storitfd'.

336911 and 336912. *POA PRATENSIS* L. Gramineae. Kentucky bluegrass.

336911. 'Lille Katla'.

336912. 'Stora Katla'. Mixed with *Rumex acetosella*.

336913 to 337049.

From Brazil. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Georgia. Numbered Aug. 1, 1968.

336913. AESCHYNOMENE sp. Leguminosae.

Col. 471. Sao Paulo State. Fifty m. from Atlantic coast, near Rio Juqueriqueri at Sao Jorge. Perennial 1.5 m. high, erect, branching.

336914 to 336983. ARACHIS HYPOGAEA L. Leguminosae.

Sao Paulo State. Faz. Pagador, Anderson-Clayton and Company, Presidente Prudente.

336914. Col. 518. 'Virginia 222'. Semispreading variety; 170 days maturity. Virginia type pods and seed. Introduced from Virginia under strain 'Virginia 222'.

336915. Col. 519. 'Tatu.' Testa red. Valencia. Cultivar commonly grown in production area centering on Presidente Prudente. Grown for oil.

Mato Grosso State. Central Market, Campo Grande.

336916. Col. 527. Testa red. Valencia.

336917. Col. 528. Testa flesh. Valencia.

336918. Col. 529. Testa flesh. Seed characters resemble Spanish.

336919. Col. 530. Testa red.

336920. Col. 531. Testa red.

336913 to 337049—Continued

336914 to 336983—Continued

336921. Col. 532. Testa red.
336922. Col. 533. Testa red. Principal component of mixture in which P.I. 336923 was minor component.
336923. Col. 534. Testa flesh. Ten seed sorted from P.I. 336922.
336924. Col. 556. Mato Grosso State. Terenos (where pavement ends) west of Campo Grande on Route 33 to Aquidana. Testa red. Valencia.
- Sao Paulo State. Central Market, Campinas.
336925. Col. 585. Testa red.
336926. Col. 596. Testa red.
336927. Col. 587. Testa red.
- Sao Paulo State. Street Market, Campinas.
336928. Col. 588. Testa red.
336929. Col. 589. Testa red. From a different vendor.
336930. Col. 590. Testa red. From a different vendor.
- Sao Paulo State. Oilseeds Section, Institute of Agronomy, Campinas.
336931. Col. 635. Local name Correntino Blanco Comun. Origin Tucuman, Argentina. CIA 459, RCM 47.
336932. Col. 636. Origin Corrientes, Argentina. CIA 494, RCM 98.
336933. Col. 637. Origin Corrientes, Argentina. CIA 499, RCM 115.
336934. Col. 638. Origin Corrientes, Argentina. CIA 501, RCM 117.
336935. Col. 639. Local name Along Owone. Origin Boukoko, French Equatorial Africa. CIA 507, RCM 126.
336936. Col. 640. Local name Mone Zang. Origin Boukoko, French Equatorial Africa. CIA 510, RCM 129.
336937. Col. 641. Origin Corrientes, Argentina. CIA 511, RCM 130.
336938. Col. 642. Origin Corrientes, Argentina. CIA 512, RCM 131.
336939. Col. 643. Local name Cacahua Roja. Origin Valencia, Spain. CIA 513, RCM 133.
336940. Col. 644. Origin Formosa. CIA 535, RCM 167.
336941. Col. 645. Local name Cacahua. Origin Valencia, Spain. CIA 540, RCM 194.
336942. Col. 646. Local name Valencia. Origin Santiago, Chile. CIA 544, RCM 198.
336943. Col. 647. 'Mani M.A.'. CIA 545, RCM 199.
336944. Col. 648. Local name Yacundo. Origin Biukoko, French Equatorial Africa. CIA 548, RCM 211.
336945. Col. 649. Origin Entre Rios, Argentina. CIA 596, RCM 267.
336946. Col. 650. Origin market in Lima, Peru. CIA 642, RCM 404.
336947. Col. 651. Origin Paraguay. CIA 645, RCM 407.
336948. Col. 652. Origin Salta, Argentina. CIA 650, RCM 414.
336949. Col. 653. Origin Salta, Argentina. CIA 651, RCM 415.
336950. Col. 654. Origin market in Cochabamba, Bolivia. CIA 652, RCM 416.

336913 to 337049—Continued**336914 to 336983—Continued**

336951. Col. 655. 'Mani Valencia'. Origin Peru. CIA 653, RCM 417.
336952. Col. 656. Local name Yungas. Origin market in Cochabamba, Bolivia. CIA 656, RCM 420.
336953. Col. 657. From the cross: Negro-4 × Fla. 249-40-B3. CIA 658, RCM 601.
336954. Col. 658. From the cross: Negro-4 × Fla. 249-40-B3. CIA 659, RCM 602.
336955. Col. 659. From the cross: Toebam × Colorado. CIA 690, RCM 633.
336956. Col. 660. From the cross: Toebam × Colorado. CIA 695, RCM 638.
336957. Col. 661. Local name Tatu branco. Origin Presidente Predente, Sao Paulo, Brazil. CIA 772.
336958. Col. 662. Local name Paraguaio. Origin Rio Grande do Sul, Brazil. Seed testa red. CIA 849.
336959. Col. 663. Local name Paraguaio. Origin Rio Grande do Sul, Brazil. Testa dark colored. CIA 850.
336960. Col. 664. Local name Tatu gigante. Origin Dracena, Sao Paulo, Brazil. CIA 857.
336961. Col. 665. Local name Roxo. Origin Brazil. (No CIO number).
336962. Col. 666. Local name Tatu. Origin Secretary de Leguminosas, Instituto Agronomico, Sao Paulo, Brazil. CIA 53.
336963. Col. 667. H. 126-4. Instituto Agronomico, Intervarietal hybrid.
336964. Col. 668. H. 126-5. Intervarietal hybrid.
336965. Col. 669. H. 127-6. Intervarietal hybrid.
336966. Col. 670. H. 128-1 (Vermelho). Intervarietal hybrid.
336967. Col. 671. H. 128-1 (Claro). Intervarietal hybrid.
336968. Col. 672. H. 130-1. Intervarietal hybrid.
336969. Col. 673. Co. 3-1. Colchicine treated.
336970. Col. 674. Co. 6-1. Colchicine treated.
336971. Col. 675. Co. 8-6. Colchicine treated.
336972. Col. 676. Co. 9-3. Colchicine treated.
336973. Col. 677. Co. 11-7. Colchicine treated.
336974. Col. 678. Co. 11-12. Colchicine treated.
336975. Col. 679. Co. 30-33. Colchicine treated.
336976. Col. 680. Co. 39-4. Colchicine treated.
336977. Col. 681. Local name Paraguai 1.
336978. Col. 682. Local name Nhambiquara.
336979. Col. 683. Local name Nhambiquara Stespeguenas.
336980. Col. 684. Selection from Roxo 80-1. Two-seeded pod collected from Roxo cultivar.
336981. Col. 685. Local name Tatu amarelo.
336982. Col. 686. Local name Overa. Origin Bolivia. Resistant to *Cercospora* leaf spot.

336913 to 337049—Continued

336914 to 336983—Continued

336983. Col. 687. CIA V. 478.

336984 and 336985. *ARACHIS VILLOSULICARPA* Hoehne

Campinas Instituto Agronomico, Campinas.

336984. Col. 484. CIA V.44. Perennial from rootstocks. Bunch, tap-rooted; leaves glaucous, green. Pods of two kinds—with and without villous hairs.

336985. Col. 490. CIA V.862. Perennial. Plants bunch, erect. Cultivated by Indians in Mato Grosso.

336986 to 336989. *CAJANUS CAJAN* (L.) Millsp. Leguminosae.

Pigeon-pea.

336986. Col. 474. Sao Paulo State. Banks of Rio Juqueriqueri in Sao Jorge.

336987. Col. 505. Sao Paulo State. Institute de Pesquisas, IRI Experiment Station, Matao.

336988. Col. 514. Sao Paulo State. Presidente Prudente, 1 km. north-east of traffic circle, near picnic area.

336989. Col. 517. Sao Paulo State. Presidente Prudente, near traffic circle, highway from northeast of city. Shrubby tree.

336990 and 336991. *CASSIA LATISTIPULA* Benth. Leguminosae.

336990. Col. 464. Institute of Botany, Botanical Gardens, Sao Paulo. Stipules leaf size, large, prominent. Potential ornamental.

336991. Col. 503. Sao Paulo State. Institute de Pesquisas IRI Experiment Station, Matao. Palatable to cattle.

336992. *CHLORIS DISTICHOPHYLLA* Lag. Gramineae.

Col. 463. Institute of Botany, Botanical Gardens, Sao Paulo. Bunch-grass, 1 m. high; leaves fleshy. Has ornamental value.

336993. *CICER ARIETINUM* L. Leguminosae.

Chickpea.

Col. 602. Local name Grao Bico. Sao Paulo State. From vendor in Central Market, Campinas.

336994. *CROTALARIA* sp. Leguminosae.

Col. 468. Sao Paulo State. Near Porto Grande Hotel, Sao Sebastiao. To 0.9 m. high; stems woody; leaves dark green. Possible ornamental.

336995. *CROTALARIA* sp.

Col. 469. Sao Paulo State. Near Porto Grande Hotel, Sao Sebastiao. Plants 1 m. high, herbaceous. Pods indehiscent; seed tan.

336996. *CROTALARIA* sp.

Col. 470. Sao Paulo State. Near Rio Juqueriqueri at Sao Jorge. To 2 m. high, herbaceous; stems fine; leaves fine.

336997. *CROTALARIA* sp.

Col. 511. Sao Paulo State. One hundred nine km. northeast of Presidente Prudente, on road to San Jose do Rio Preto. Plants to 0.9 m. high. Flowers yellow.

336998. *CROTALARIA* sp.

Col. 557. Mato Grosso State. Twelve km. west of Palmeira on Route 33. Plants 2 m. high. Stems herbaceous, erect; branches lateral; leaves small, trifoliate.

336913 to 337049—Continued

336913 to 337049—Continued

336999. CROTALARIA sp.

Col. 558. Mato Grosso State. Twelve km. west of Palmeira on Route 33. Plants 1 m. high; unifoliate; stems erect, herbaceous; flowers yellow.

337000. CUCURBITA sp. Cucurbitaceae.

Col. 601. Sao Paulo State. From vendor in Central Market, Campinas. Fruit 38 cm. by 20 cm., rind green.

337001. DOLICHOS LABLAB L. Leguminosae. Hyacinth-bean.

Col. 494. Sao Paulo State. Growing at Agronomy Experimental Farm, Instituto Agronomico, Campinas.

337002. ERAGROSTIS TEF (Zuccagni) Trotter Gramineae. Teff.

Col. 496. Sao Paulo State. Botanic Garden of the Institute of Botany, Sao Paulo.

337003. INDIGOFERA SUFFRUTICOSA Mill. Leguminosae. Anil indigo.

Col. 482. Sao Paulo State. Bank of Rio Juqueriqueri at Sao Jorge, near sea coast. Perennial, woody, to 2 m. high. Prolific seeder.

337004. INDIGOFERA sp.

Col. 515. Sao Paulo State. One hundred nine km. northeast of Presidente Prudente.

337005. IPOMOEA sp. Convolvulaceae.

Col. 466. Sao Paulo State. Hotel Porto Grande, Sao Sebastiao. Vines slender, creeping; leaves five-lobed, deeply cleft. Testa brown with lint.

337006. IPOMOEA sp.

Col. 497. Sao Paulo State. Institute of Botany, Sao Paulo.

337007. LATHYRUS SATIVUS L. Leguminosae. Grass peavine.

Col. 600. Local name Envilhas particlas. Sao Paulo State. From vendor in Central Market, Campinas.

337008. LENS CULINARIS Medic. Leguminosae. Lentil.

Col. 603. Local name Lentilhas. Sao Paulo State. From vendor in Central Market, Campinas.

337009. LEUCAENA LEUCOCEPHALA (Lam.) De Wit Leguminosae. Leadtree.

Col. 506. Sao Paulo State. IRI Experiment Station, Matao.

337010. LUPINUS ALBUS L. Leguminosae. White lupine.

Col. 599. Local name Tremoso. Sao Paulo State. From vendor in Central Market, Campinas.

337011. MUCUNA DEERINGIANA (Bort) Merr. Leguminosae. Deering velvetbean.

Col. 516. Sao Paulo State. Northeast of Presidente Prudente near traffic circle.

337012 and 337013. PANICUM MAXIMUM Jacq. Gramineae. Guineagrass.

337012. Col. 478. Sao Paulo State. Near Porto Grande Hotel, Sao Sebastiao. Bunchgrass. Stems coarse.

337013. Col. 512. Sao Paulo State. One hundred nine km. northeast of Presidente Prudente enroute to San Jose do Rio Preto. Tall; stems coarse. Growing as weed. Abundant along roadside.

336913 to 337049—Continued

337014. *PASPALUM NICORAE* Parodi Gramineae.

Col. 606. Rio Grande do Sul. On Experiment Station at Sao Gabriel.

337015 and 337016. *PASPALUM NOTATUM* Fluegge Bahiagrass.

337015. Col. 509. Sao Paulo State. Northeast of Presidente Predente at traffic circle. Broadleaf form.

337016. Col. 605. Rio Grande do Sul. At Bella Union. Low growing, narrow-leaf form.

337017. *PASPALUM* sp.

Col. 476. Sao Paulo State. Rio Juqueriqueri at Sao Jorge, 200 m. from Atlantic Ocean. Bunchgrass 2 m. high.

337018 to 337030. *PHASEOLUS VULGARIS* L. Leguminosae. Common bean.

337018. Col. 536. Seed coat brown.

337019. Col. 537. Seed coat cream.

337020. Col. 538. Seed coat light brown.

337021. Col. 539. Mixed; seed coat cream, tan and light brown.

337022. Col. 540. Small, black.

337023. Col. 591. Sao Paulo State. Street Market, Campinas. Seed coat "Pintado".

Sao Paulo State. From vendors in Central Market, Campinas.

337024. Col. 592. Local name Feijao Opaco.

337025. Col. 593. Local name Roxtaho.

337026. Col. 594. Local name Feijao Branco.

337027. Col. 595. Local name Feijao Jallo.

337028. Col. 596. Local name Feijao Rosinha.

337029. Col. 597. Local name Feijao Preto (Florenta).

337030. Col. 598. Local name Feijao Rajodo Parana.

337031. *PHASEOLUS* sp.

Col. 477. Sao Paulo State. Near Porto Grande Hotel, Sao Sebastiao.

337032. *PHASEOLUS* sp.

Col. 465. Sao Paulo State. Sao Sebastiao. Across street from Porto Grande Hotel. Pods pubescent; seed small, black with white hilum.

337033. *QUAMOCLIT* sp. Convolvulaceae.

Col. 483. Sao Paulo State. Porto Grande Hotel, Sao Sebastiao. Vine, herbaceous; flowers red, tubular.

337034. *RHYNCHOSIA* sp. Leguminosae.

Col. 608. Rio Grande do Sul. Experiment Station, Sao Gabriel.

337035. *SOLANUM PANICULATUM* L. Solanaceae.

Col. 495. Local name Jurbeba. Sao Paulo State. Institute of Botany, Sao Paulo. Tree, shrubby, 3 m. high. Fruit 1.25 cm. diameter.

337036. *SOLANUM* sp.

Col. 541. Mato Grosso State. Thirty-nine km. west of Rio Parana on Route 34. Fruit yellow green, 25.25 mm. diameter; stems spiny, spines 0.125 mm. long.

336913 to 337049—Continued

337037. *STYLOSANTHES* sp. Leguminosae.

Col. 508. Sao Paulo State. Presidente Prudente. A single, dwarf, leafy plant.

337038. *STYLOSANTHES* sp.

Col. 510. Sao Paulo State. Northeast of Presidente Prudente near traffic circle. Stems fine, leafy.

337039. *STYLOSANTHES* sp.

Col. 513. Sao Paulo State. One hundred nine km. northeast of Presidente Prudente.

337040. *TECOMA* sp. Bignoniaceae.

Col. 504. Sao Paulo State. IRI, Matao.

337041. *TRIPSACUM AUSTRALE* Cutler & E. Anders. Gramineae.

Col. 690. Sao Paulo State. Soil Conservation Section, Instituto Agromico, Campinas.

337042 to 337044. *VIGNA SINENSIS* (Torner) Savi Leguminosae.

Common cowpea.

337042. Col. 472. Sao Paulo State. Near Porto Grande Hotel, Sao Sebastiao.

337043. Col. 473. Sao Paulo State. Sao Jorge. Vegetable garden.

337044. Col. 535. Mato Grosso State. Central Market, Campo Grande. Cream seed coat, black eye.

337045. *ZORNIA* sp. Leguminosae.

Col. 543. Mato Grosso State. Route 34, 232 km. west of Rio Parana.

337046. *ZORNIA* sp.

Col. 475. Sao Paulo State. At Sao Jorge, near Rio Juqueriqueri. To 76 cm. high.

337047. *ZORNIA* sp.

Col. 507. Sao Paulo State. Northeast of Presidente Prudente at traffic circle. To 0.3 m. high. Plants mature. Leaves shed.

337048. *ZORNIA* sp.

Col. 546. Mato Grosso State. Roadbank, 5 km. south of Campo Grande. Plant 0.6 m. high, erect; branches lateral, many.

337049. Undetermined. Bignoniaceae.

Col. 542. Mato Grosso State. Route 34 at "Tres Casas". Plants to 3 m. high, erect; branches few. Inflorescence 25 cm. to 38 cm. Flowers dark purple.

337050. *LESQUERELLA FENDLERI* Wats. Cruciferae.

From the United States. Seed collected by A. S. Barclay, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Aug. 5, 1968.

Col. 3030. Along Interstate Highway 25, 55 miles south of Socorro, Sierra County, N.M. Elevation 4,500 feet. Plants exceptionally robust, growing along roadsides; calcareous soil.

337051 to 337065.

From Czechoslovakia. Seeds presented by Research Institute for Plant Production, Prague-Ruzyně C. P. 507. Numbered Aug. 5, 1968.

337051. *MELICA UNIFLORA* Retz. Gramineae.

Melic.

University Botanic Garden, Purkyniana, Brno.

337051 to 337065—Continued

337052. *STIPA BARBATA* Desf. Gramineae.

Botanic Garden, Stadt Linz/Donau, Austria.

337053. *STIPA BROMOIDES* (L.) Beck.

Botanical Garden, Hebrew University of Jerusalem, Israel.

337054 to 337056. *STIPA CAPILLATA* L.

337054. University Botanic Garden, Purkyniana, Brno.

337055. Southern Moravia, Pavlovske kopce hills, on calcareous soil.

337056. West Moravia, District Trebic, steppe near village Mohelno, on rocky soil.

337057. *STIPA DASYPHYLLA* Czern. ex Trautv.

West Moravia, District Trebic, steppe near village Mohelno, on rocky soil.

337058. *STIPA JOANNIS* Celak.

University Botanic Garden, Purkyniana, Brno.

337059. *STIPA JOANNIS* var. *PUBERULA* Podp. & Suza

West Moravia, District Trebic, steppe near village Mohelno, on rocky soil.

337060. *STIPA PENNATA* var. *LESSINGIANA* (Tr & Rupr.) Richter

University Botanic Garden, Purkyniana, Brno.

337061. *STIPA PULCHERRIMA* K. Koch

West Moravia, District Trebic, steppe near village Mohelno, on rocky soil.

337062. *STIPA PULCHERRIMA* var. *GALLICA* (Steven) Podp.

University Botanic Garden, Purkyniana, Brno.

337063. *STIPA STENOPHYLLA* Cerniaev

University Botanic Garden, Purkyniana, Brno.

337064. *STIPA TENACISSIMA* Jusl.

University Botanic Garden, Purkyniana, Brno.

337065. *STIPA* sp.

Botanical Garden, Hebrew University of Jerusalem, Israel.

337066 to 337076. *BETA VULGARIS* L. Chenopodiaceae.

Sugar beet.

From England. Seed presented by the Director, Plant Breeding Institute, Trumpington, Cambridge. Numbered Aug. 6, 1968.

337066. 'Dire'.

337072. 'P5'.

337067. 'Dot'.

337073. 'Q7416(P)/ET'.

337068. 'Highsett'.

337074. 'Stet/C'.

337069. 'Hyena'.

337075. 'Rat'.

337070. 'Meth 3'.

337076. 'Violet'.

337071. 'Pet'.

337077 to 337100.

From Brazil. Seed collected June 1968 by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, Ga., and Experiment, Ga. All samples grown by Institute of Agronomy, Campinas, Sao Paulo State. Numbered Aug. 13, 1968.

337077 to 337100—Continued

337077. CAJANUS CAJAN (L.) Millsp. Leguminosae. Pigeon-pea.
Col. 611. Local name Fava larga.
337078. CANAVALLIA ENSIFORMIS (L.) DC. Leguminosae. Jack-bean.
Col. 619. Local name Feijao de perco.
337079. CENTROSEMA PUBESCENS Benth. Leguminosae.
Col. 620.
337080. CROTALARIA JUNCEA L. Leguminosae. Sunn-hemp.
Col. 621.
337081. CROTALARIA SPECTABILIS Roth Showy crotalaria.
Col. 618.
337082. CYAMOPSIS TETRAGONOLOBA (L.) Taub. Leguminosae. Guar.
Col. 625.
337083. DOLICHOS LABLAB L. Leguminosae. Hyacinth-bean.
Col. 624. Cultivar 697. Local name Lab-lab.
- 337084 and 337085. GLYCINE MAX (L.) Merr. Leguminosae. Soybean.
337084. Col. 623. 'Otootan'.
337085. Col. 634. Local name Soja Abura.
337086. GLYCINE WIGHTII (R. Grah. ex Wight & Arn.) Verdcourt
Col. 617.
337087. LATHYRUS SATIVUS L. Leguminosae. Grass peavine.
Col. 616. Local name Ervilhaca.
337088. LEUCAENA LEUCOCEPHALA (Lam.) De Wit Leguminosae. Leadtree.
Col. 622.
337089. LUPINUS ALBUS L. Leguminosae. White lupine.
Col. 613. 'Tremeco'.
- 337090 to 337097. PHASEOLUS VULGARIS L. Leguminosae. Common bean.
337090. Col. 626. 'Bico de Oure'.
337091. Col. 627. 'Frijao Creme'.
337092. Col. 628. 'Frijao Carioca'.
337093. Col. 629. 'Frijao Rosinha G-2'.
337094. Col. 630. 'Frijao Preto G-1'.
337095. Col. 631. 'Frijao Goiano Precoce'.
337096. Col. 632. 'Frijao Pintado'.
337097. Col. 633. 'Frijao Chumbinho opaco'.
337098. STIZOLOBIUM ATERRIMUM Piper & Tracy Leguminosae. Velvetbean.
Col. 612. Local name Mucuna preta.
337099. STIZOLOBIUM sp.
Col. 615. Local name Mucuna ana.
337100. TEPHROSIA CANDIDA DC. Leguminosae.
Col. 614.

337101 to 337131.

From Romania. Seed presented by Botanic Garden, University of Bucharest, Bucharest. Numbers refer to 1967 Botanic Garden catalog. Received Aug. 14, 1968.

337101. ANCHUSA ITALICA Retz. Boraginaceae. Italian bugloss.
No. 21.

337102. ANCHUSA OFFICINALIS L. Common bugloss.
No. 22.

337103. ANCHUSA PROCERA Bess. ex Link
No. 944.

337104 and 337105. BERTEROA INCANA Karsten Cruciferae.

337104. No. 1719.

337105. No. 1769.

337106. CEPHALARIA ALPINA Schrad. Dipsacaceae.
No. 105.

337107 and 337108. CEPHALARIA GRAECA Roem. & Schult.

337107. No. 106.

337108. No. 1216.

337109. CEPHALARIA TATARICA Schrad. Tatarian cephalaria.
No. 107.

337110. CRAMBE HISPANICA Linn. Cruciferae.
No. 1205.

337111. ERYNGIUM CRETICUM Lam. Umbelliferae.
No. 1295.

337112. ERYNGIUM GIGANTEUM Bieb.
No. 1107.

337113 and 337114. ERYNGIUM PLANUM L.

337113. No. 688.

337114. No. 1797.

337115. HELICHRYSUM BRACTEATUM (Vent.) Willd. Compositae.
Strawflower.
No. 1428.

337116. LAPSANA GRANDIFLORA Bieb. Compositae.
No. 67.

337117. LITHOSPERMUM OFFICINALE L. Boraginaceae.
No. 945.

337118. MONARDA DIDYMA L. Labiat. ae.
No. 1498.

337119. MONARDA FISTULOSA L. Wildbergamot.
No. 1499.

337120. PLANTAGO CORONOPUS L. Plantaginaceae.
No. 194.

337121. PLANTAGO CYNOPS L.
No. 193.

337101 to 337131—Continued**337122 and 337123.** PLANTAGO INDICA L.

337122. No. 997.

337123. No. 1776.

337124 and 337125. PLANTAGO LANCEOLATA L.

337124. No. 624.

337125. No. 1825.

337126. PLANTAGO PSYLLIUM L.

No. 626.

337127. PLANTAGO MARITIMA L.

No. 1253.

337128. PLANTAGO MAJOR L.

No. 625.

337129. SCABIOSA MARITIMA L. Dipsacaceae.

No. 1217.

337130. SCABIOSA STELLATA L.

No. 1218.

337131. SYMPHYTUM OFFICINALE L. Boraginaceae.

No. 476.

Comfrey.

337132 to 337136. VITIS VINIFERA L. Vitaceae.**European grape.**

From Argentina. Cuttings presented by Instituto Nacional de Tecnologia Agropecuaria, San Rafael, Mendoza. Received Aug. 15, 1968.

337132. 'San Juanina Rosada'. 337135. C.G. 1481.

337133. C.G. 183. 337136. C.G. 4320.

337134. C.G. 1475.

337137. FRAGARIA (hybrid). Rosaceae.

From Scotland. Plant presented by the Scottish Horticultural Research Institute, Mylnefield, Invergowrie, by Dundee, Angus. Received Aug. 19, 1968.

'Seedling 53Q13'. Grown in the glasshouse, Mylnefield.

337138. SOLANUM TUBEROSUM L. Solanaceae.**Potato.**

From Scotland. Tubers received from Scotland via Branch Experiment Station Aberdeen, Idaho. Numbered Aug. 21, 1968.

'Marus-Piper'.

337139. AGAVE SISALANA Perrine ex Engelm. Amaryllidaceae.**Sisal.**

From Brazil. Bulbil presented by B. V. Skvortzov, Institute of Botany, Sao Paulo. Received Aug. 22, 1968.

From 10 m. stem.

337140 to 337156.

From Argentina. Seed presented by Jose H. Frecha, Instituto Nacional de Tecnologia Agropecuaria, Castelar. Received Aug. 22, 1968.

337140 to 337146. HORDEUM VULGARE L. Gramineae.

337140 to 337156—Continued

337140 to 337146—Continued

337140. Magnif 102. 67-18922. F₇ Malteria Heda 4 x Quinn. Resistant to Argentine races of *Puccinia hordei* and *Erysiphe graminis* h.

337141. Magnif 104. 67-18919. F₈ [(M.Heda4-Quinn) x (M.Heda4-Osiris C.I.1622)]. Resistant to Argentine races of *P. hordei* and *Rhynchosporium secalis*.

337142. Magnif 105. 67-18923. F₇ Malteria Heda4 x Osiris C.I. 1622. Resistant to Argentine population of *R. secalis* and *E. graminis* h.

337143. Magnif 128. 67-15098. Mutation of Malteria Heda. Resistant to Argentine races of *E. graminis* h.

337144. Magnif 131. 67-18921. F₇ Malteria4 x Osiris C.I. 1622. Resistant to Argentine races of *R. secalis* and *E. graminis* h.

337145. Magnif 132. 67-18917. F₈ Malteria Heda6 x Quinn. Resistant to Argentine races of *P. hordei*.

337146. Magnif 141. 68-91. F₈ [(M. Heda4-Quinn x M. Heda4-H. Epuyen) x (M. Heda4-Osiris x M. Heda4-H. Epuyen)]. Resistant to Argentine races of *P. hordei*, *R. secalis* and *Helminthosporium teres*.

337147 to 337156. TRITICUM AESTIVUM L. Gramineae. Common wheat. Mutations of Sinvalocho M.A. Resistant to some Argentine races of *Puccinia graminis* and *P. recondita*.

337147. Magnif 96. 76-7229.

337148. Magnif 97. 67-7230.

337149. Magnif 98. 67-7233.

337150. Magnif 99. 67-7234.

337151. Magnif 100. 67-7231.

337152. Sinvalocho M.A. 67-7232. Sin Rival x 38 M.A.

Resistant to all Argentine races of *P. graminis tritici* and to some races of *P. recondita*.

337153. Magnif 101. 67-17300. F₇ Sinvalocho M.A. 4 x Kenya 350.

337154. Magnif 143. 67-17117. F₈ Pergamino Gaboto MAG4 x Egypt NA 101-Timstein.

337155. Magnif 144. 67-12945. F₇ El Gaucho F.A.6 x Egypt NA 101-Timstein.

337156. Magnif 142. 67-13057. F₇ [(F₈M.Guarani x Klein 1574) x (F₈ El Gaucho F.A.4 x Egypt NA 101-Timstein)].

337157. PHASEOLUS LUNATUS L. Leguminosae. Lima bean.

From Mexico. Seed collected in 1967 for H. S. Gentry, agricultural explorer, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Aug. 22, 1968.

Col. 22509. Telixtlahuaca, Oaxaca. Carriso thicket by arroyo. Elevation 5,700 feet. Perennial vine; leaves tomentose; flowers lavender; pods short, thick rounded, soft, turgid. Atypical of wild sievas.

337158 to 337166. VITIS VINIFERA L. Vitaceae. European grape.

From the Republic of South Africa. Cuttings presented by the University of Stellenbosch, Stellenbosch. Received Aug. 23, 1968.

337158. 'Barlinka—Clone 1'.

337159. 'Barlinka—Clone 2'.

337160. 'Bonnet de Retord—Clone 1'.

337158 to 337166—Continued

337161. 'Bonnet de Retord—Clone 2'.
 337162. 'Donzellinho do Gallego'.
 337163. 'Ferdinand de Lesseps—Clone 1'.
 337164. 'Ferdinand de Lesseps—Clone 2'.
 337165. 'Pinotage—Clone 1'.
 337166. 'Pinotage—Clone 2'.

337167 to 337278.

From England. Plants presented April 1967 by Sunningdale Nurseries, Windlesham, Surrey. Numbered Sept. 3, 1968.

337167. *ALCHEMILLA ALPINA* L. Rosaceae.
 337168. *ANAPHALIS TRIPLINERVIS* Sims ex C. B. Clarke Compositae.
 337169. *CHUSQUEA CULEOU* E. Desv. Gramineae.
 337170. *DIERAMA* sp. Iridaceae.
 337171. *EUCRYPHIA* × *NYMANSENSIS* Bausch Eucryphiaceae.
 337172. *ILEX AQUIFOLIUM* L. Aquifoliaceae. English holly.
 337173 to 337244. *RHODODENDRON* (hybrid). Ericaceae.
 337173. 'Agatha'. Ghent clone.
 337174. 'Aurore'. Mollis clone.
 337175. 'Babeuff'. Mollis clone.
 337176. 'Balzac'. Knap Hill grex.
 337177. 'Basilisk'. Knap Hill clone.
 337178. 'Beaulieu'. Knap Hill clone.
 337179. 'Berryrose'. Knap Hill clone.
 337180. 'Bijou des Amateurs'. Ghent clone.
 337181. 'Brazil'. Knap Hill clone.
 337182. 'Byron'. Rustica clone; syn. 'Garten Inspektor C. Ohrt'.
 337183. 'Cecile'. Knap Hill clone.
 337184. 'Chicago'. Mollis clone.
 337185. 'Christopher Wren'. L. J. Endtz and Company Clone; syn. 'Goldball'.
 337186. 'Colonel F. R. Durham'. Mollis clone.
 337187. 'Decus Hortonum'. Ghent clone.
 337188. 'Delicata'. Ghent clone.
 337189. 'Edison'. Ghent clone; *japonicum* × *gandavense*.
 337190. 'Emile'. Ghent clone.
 337191. 'Esmeralda'. Ghent clone; *japonicum* × *gandavense*.
 337192. 'Exbury Apricot'. Knap Hill clone.
 337193. 'Exbury Cream-yellow'. Knap Hill clone.
 337194. 'Exbury Pink No. 2'. Knap Hill clone.
 337195. 'Exbury White'. Knap Hill clone.
 337196. 'Exbury Yellow'. Knap Hill clone.
 337197. 'Exbury Yellow Blotch'.

337167 to 337278—Continued

337173 to 337244—Continued

337198. 'Firebrand'. Mollis clone.
337199. 'Fireflame'. Mollis clone.
337200. 'Firefly'. Knap Hill clone.
337201. 'Gallipoli'. Knap Hill clone.
337202. 'Gannet'. Knap Hill clone.
337203. 'General Trauff'. Ghent clone.
337204. 'George Reynolds'. Knap Hill clone.
337205. 'Gibraltar'. Knap Hill clone.
337206. 'Ginger'. Knap Hill clone.
337207. 'Golden Eye'. Knap Hill clone.
337208. 'Golden Horn'. Knap Hill clone.
337209. 'Graf Alfred von Niepperg'. Ghent clone.
337210. 'Harry White'. *Grex arboreum* var. *kermesinum* × 'Ascot Brilliant'.
337211. 'Heroine Plena'. Ghent clone.
337212. 'Highclere'.
337213. 'Hotspur'. Knap Hill clone.
337214. 'Hotspur Yellow'. Knap Hill clone.
337215. 'Hotspur Salmon-buff'. Knap Hill clone.
337216. 'Hugh Wormald'. Knap Hill clone.
337217. 'Ignea Nova'. Ghent clone.
337218. 'J. Jennings'. Knap Hill clone.
337219. 'Kathleen'. Knap Hill clone.
337220. 'Klondyke'. Knap Hill clone.
337221. 'Knighthood'. Knap Hill clone.
337222. 'Kosters 172'. Mollis clone.
337223. 'Kosters 174'. Mollis clone.
337224. 'Lady Rosebery'. Knap Hill grex.
337225. 'M. Merriman'.
337226. 'Mrs. L. J. Endtz'. Mollis clone.
337227. 'Nancy Buchanan'. Knap Hill clone.
337228. 'Norma'. Rustica clone.
337229. 'Oxydol'. Knap Hill clone.
337230. 'Penguin'. Knap Hill clone.
337231. 'Princess Juliana'. Mollis clone.
337232. 'Pucella'. Ghent clone; syn. 'Fanny'.
337233. 'Queen of England'. Ghent clone.
337234. 'Rosea Flava'. Ghent clone.
337235. 'Rouge Brique'. Ghent clone.
337236. 'Royal Lodge'. Knap Hill clone.
337237. 'Spinoza'. Mollis clone.

337167 to 337278—Continued**337173 to 337244—Continued**

337238. 'Standishi'. Ghent clone.

337239. 'Strawberry Ice'. Knap Hill clone.

337240. 'Tangerine'. Waterer Sons and Crisp Limited clone. Knap Hill clone.

337241. 'Tessa'. Knap Hill clone.

337242. 'Verschaffaltii'. Ghent clone.

337243. 'Versicolor'. Ghent clone.

337244. 'Willem III'. Ghent clone; syn. William III'.

337245. RHODODENDRON AMAGIANUM (Makino) Maxim. ex Hara.**337246.** RHODODENDRON CONCATENANS Hutch.**337247.** RHODODENDRON × FRAGRANS Paxton**337248.** RHODODENDRON × GOWENIANUM Sweet**337249 and 337250.** RHODODENDRON JAPONICUM (Gray) Schneid.
Japanese azalea.

337249. 'Clara Butt'. Mollis clone.

337250. 'Emile Liebig'. Mollis clone.

337251 to 337264. RHODODENDRON × KOSTERIANUM Schneid.
Koster azalea.

337251. 'Adriaan Koster'. Mollis clone.

337252. 'Boskoop Beauty'. Mollis clone.

337253. 'Directeur Moerlands'. Mollis clone.

337254. 'Dr. M. Oosthoek'. Mollis clone.

337255. 'Evening Glow'. Mollis clone.

337256. 'Floradora'. Mollis clone.

337257. 'Koningin Emma'. Mollis clone; syn. 'Queen Emma'.

337258. 'Koster's Brilliant Red'. Mollis grex.

337259. 'Mrs. A. E. Endtz'. Mollis clone.

337260. 'Mrs. Peter Koster'. Mollis clone.

337261. 'Multatuli'. Mollis clone.

337262. 'Nicholaas Beets'. Mollis clone.

337263. 'Spek's Brilliant'. Mollis clone.

337264. 'Yellow Prince'. Mollis clone.

337265. RHODODENDRON OBLONGIFOLIUM (Small) Millais**337266 to 337272.** RHODODENDRON OCCIDENTALE (Torr. & Gray) Gray

337266. 'Delicatissima'. Occidentale clone.

337267. 'Exquisita'. Occidentale clone.

337268. 'Graciosa'. Ghent clone.

337269. 'Irene Koster'. Ghent clone.

337270. 'Primavera'. Ghent clone.

337271. 'Rosea'. Ghent clone.

337272. 'Superba'. Ghent clone.

337273. RHODODENDRON PSEUDOCHRYSANTHUM Hayata

337167 to 337278—Continued

337274. RHODODENDRON \times VISCOSEPALUM Rehd.

337275. RHODODENDRON VISCOSEPALUM var. DAVIESII (R. D. in Gard. Chron.) Rehder
Ghent clone.

337276. RHODODENDRON VISCOSUM var. GLAUCUM (Ait.) Torrey

337277. RHODODENDRON VISCOSUM var. NITIDUM (Pursh) Gray

337278. RHODODENDRON VISCOSUM f. RHODANTHUM Rehd.

337279. PRUNUS PERSICA (L.) Batsch Rosaceae. Peach.

From the Union of Soviet Republic. Budsticks presented by the Institute of Plant Industry, Leningrad. Received Sept. 3, 1968.

'Pauni'.

337280. PLATANUS ORIENTALIS L. Platanaceae. Oriental plane tree.

From Greece. Seed presented by Botanical Garden of the University of Athens, Athens. Received Sept. 3, 1968.

337281 to 337283. TABEBUIA PENTOPHYLLA (L.) Hemsl. Bignoniaceae.

From Venezuela. Seed presented by Armando Mencia through the Agricultural Attache, American Embassy, Caracas. Received Sept. 3, 1968.

337281. No. 1. Fuchsia color.

337282. No. 2.

337283. No. 3.

337284. SOLANUM LACINIATUM Ait. Solanaceae.

From Hungary. Seed presented by National Institute of Agrobotany Tapioszele.

No. 134/1968.

337285 to 337309.

From Brazil. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Received Sept. 3, 1968.

337285 to 337307. ARACHIS HYPOGAEA L. Leguminosae.

337285. Col. 366. Purchased in store at Porto Alegrem Rio Grande do Sul. Valencia. Pods 2 to 4 segmented, very large; testa bright red.

From Armando Primo, Superintendent, Estacao Experimental de Forrageitas de Sao Gabriel, Rio Grande do Sul.

337286. Col. 370. Random sample of mixture commonly cultivated at the Experiment Station for many years. One seed per pod. For components of mixture see P.I. 337371 through 337376.

337287. Col. 371. Pods 2 segmented. Testa white.

337288. Col. 372. Pods 2 segmented; testa variegated flesh and white.

337289. Col. 373. Pods 2 or 3 segmented; testa wine. May be two types.

337290. Col. 374. Pods 1 to 4 segmented, testa dark purple, some faded, two or more types. Dominant component of P.I. 337286.

337285 to 337309—Continued**337285 to 337307—Continued**

- 337291.** Col. 375. Pods 2 to 4 segmented, size and shape variable; testa bright red, second most prevalent testa color.
- 337292.** Col. 376. Pods 2 segmented, differ in size and shape of seed; testa flesh, third most prevalent component. Minimum of two types.
- 337293.** Col. 412. Random sample from P.I. 337286. Variation in wine testa expression.
- 337294.** Col. 413. Selection from P.I. 337286. Two pods: pod "A", one seed, Spanish type, testa variegated white and tan; pod "B", 2 seed—(1) testa variegated white and tan; (2) testa flesh.
- 337295.** Col. 414. Selection from P.I. 337286. Spanish pods; seed and testa flesh.

Central Market in Porto Alegre, Rio Grande do Sul.

- 337296.** Col. 377. Testa variegated red on white.
- 337297.** Col. 378. Testa pink; old seed.
- 337298.** Col. 379. Testa red.
- 337299.** Col. 380. Pods mostly 4 segmented; testa flesh.
- 337300.** Col. 381. Seed large; testa pink.
- 337301.** Col. 382. Testa variegated red and white.
- 337302.** Col. 383. Testa red.
- 337303.** Col. 384. Local name Amendoim. Testa red. Seed longer than P.I. 337302.
- 337304.** Col. 385. Testa red.
- 337305.** Col. 386. Seed large; testa red.
- 337306.** Col. 387. Pods large, strongly reticulated; testa flesh.
- 337307.** Col. 388. Pods smooth; testa red.

337308. ARACHIS sp.

Col. 409. Antonina, Parana State. At Ponta da Pita, 6 km. from center of Antonina, 1 km. southwest of Port Administrative office. Site 20 m., both sides of street. Perennial, taprooted, prostrate, without rhizomes; no apparent adventitious roots at nodes. Taproots 6 inches deep in well-packed soil. Lateral roots originate 3 to 4 cm. below crown; well developed, to 38 cm. long; many nodules. Lateral roots horizontal. Main stem to 6 inches high, sparsely branched with slender laterals to 64 cm. long. Flowers yellow, fruits 1.0 to 1.5 cm. long, pericarp thin, testa tan. Plants resemble *Arachis repens* group but lack visible roots at nodes.

337309. ARACHIS sp.

Col. 411. Parana State. At Paranagua, Porto Dom Pedro II (Vila dos Portuarios) in lumberyard near railroad tracks. Site 75 or more m. diameter. Perennial, taprooted, prostrate, lacking rhizomes. Adventitious roots not found at nodes. Central stem to 15 cm. Lateral branches sparse. Primary branches creeping but not evidently rooted at nodes. Plants to 75 cm. diameter with few in protected area to 1 m. Leaves 4 foliate. Flowers not seen. Pods moderately small, 2 segments with isthmus from 0.5. to 2.5 cm. long. Pegs and fruits relatively scarce, some on very young plants. Pericarp thin, testa tan.

337310. SOLANUM LACINIATUM Ait. Solanaceae.

From New Zealand. Seed presented by Botany Division, Department of Scientific and Industrial Research, Christchurch. Received Sept. 3, 1968.

337311. COIX LACRYMA-JOBI L. Gramineae. Jobs-tears.

From Brazil. Seeds presented by B. V. Skvortzov, Secretaria da Agricultura, Instituto de Botanica, Sao Paulo. Received Sept. 4, 1968.

'Ma Yuen'. Origin Japan.

337312 to 337315. CHLORIS GAYNA Kunth Gramineae. Rhodesgrass.

From Kenya. Seed presented by E. Mwakha, Ministry of Agriculture and Animal Husbandry, The National Agricultural Research Station, Kitale. Received Sept. 4, 1968.

337312. K50193. 'Masaba'. Endebess at eastern foothill of Mt. Elgon.

337313. K50198. 'Nzoia'. Trans Nzoia District, Western Kenya.

337314. K50199. 'Alego'. Alego location on northern shores of Lake Victoria.

337315. K6120. 'Rongai'. Rongai area of Rift Valley.

337316 and 337317. ARACHIS HYPOGAEA L. Leguminosae.

From India. Seed presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Sept. 4, 1968.

337316. 'Big Japan'.

337317. 'Early Runner'.

337318 to 337323.

From England. Budsticks presented by the University of Bristol, Research Station, Long Ashton, Bristol. Received Sept. 4, 1968.

337318. CYDONIA OBLONGA Mill. Rosaceae.

Quince A.

337319 to 337322. MALUS SYLVESTRIS Mill. Rosaceae. Apple.

337319. M 26.

337321. MM 106.

337320. MM 104.

337322. MM 111.

337323. PRUNUS DOMESTICA L. Rosaceae. Common plum.

'St. Juliens-A'.

337324. ARACHIS HYPOGAEA L. Leguminosae.

From Australia. Seed presented by Division of Plant Industry Commonwealth Scientific and Industrial Research Organization, Canberra, A.C.T. Received Sept. 4, 1968.

Virginia Bunch-Selection 5. Originated from plant selected by A. Baikoff, Field Officer, Peanut Marketing Board, Kingaroy.

337325 to 337329. ORYZA SATIVA L. Gramineae. Rice.

From India. Seed presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Sept. 5, 1968.

337325. Adt. 3.

337328. N-136.

337326. Culture 340.

337329. 'Suda'.

337327. N-22.

337330 to 337337. RICINUS COMMUNIS L. Euphorbiaceae. Castorbean.

From Korea. Seed presented by Crop Experiment Station, Office of Rural Development, Suwon, through The Baker Castor Oil Company, Plainview, Texas. Received Sept. 5, 1968.

337330 to 337337—Continued

- | | |
|------------------------|---------------------|
| 337330. 'Andong'. | 337334. 'Paju'. |
| 337331. 'Chindo'. | 337335. 'Soonchun'. |
| 337332. 'Kimpo'. | 337336. 'Suwon'. |
| 337333. 'Kwangsang I'. | 337337. 'Whasoon'. |

337338. ORYZA SATIVA L. Gramineae. Rice.

From the Philippines. Seed presented by The International Rice Research Institute, Manila Hotel, Manila. Received Sept. 5, 1968.

IR510-11-3. FF-36 X B583A1-4X2.

337339. CELTIS AUSTRALIS L. Ulmaceae. European hackberry.

From Spain. Seed presented by Jardin Botánico, Plaza de Murillo 2, Madrid. Received Sept. 5, 1968.

337340 to 337361.

From Argentina. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, Ga., and Experiment, Ga. Received Sept. 5, 1968.

337340 to 337357. ARACHIS HYPOGAEA L. Leguminosae.

337340. Col. 202. Microcarpa type. On farm of Sr. Angel Dusso, Helvecia, Santa Fe Province, from very large stack (mound) harvested February 1968. Spanish. Pods small, 2 segmented, typical shape of United States cultivar 'Argentine' (P.I. 121070). Testa flesh. Pod size diminished over last 20 years. Grown at least two generations on this farm.

337341. Col. 203. Microcarpa type. Peanut area prior to culture in Cordoba. From farm of Sr. Angel Winkelman, Helvecia, Santa Fe Province. Spanish. Pods 2 segmented, typical shape of United States cultivar 'Argentine' (P.I. 121070). Testa flesh.

337342. Col. 204. Microcarpa type. Two km. north of Cayasta on Route 168A. From farm of Sr. Esteban Bonguan. Spanish. Pods 2 segmented, shape approximately that of United States cultivar 'Argentine' (P.I. 121070). Estimated to have been grown here since 1880, preceding "improved" varieties.

337343. Col. 205. Colonia Macias Experiment Station. Valencia. From yield test.

Department of San Luis del Palmar, Corrientes Province.

337344. Col. 336. From grower on Route 5. Valencia. Pods 2 to 4 segmented; reticulation variable; testa purple.

337345. Col. 337. From grower on Route 5. Valencia. Pods 2 to 4 segmented; size and shape variable; testa flesh to pink; seed size and shape variable.

337346. Col. 338. From grower on Route 5. Valencia. Testa wine or light wine. May be natural cross.

337347. Col. 339. From grower at junction of Routes 5 and 6. Valencia. Pod and seed size and shape variable. Pods 2 to 4 segmented; testa purple and/or wine. Mixture.

337348. Col. 340. From grower at junction of Routes 5 and 6. Valencia. Pod and seed size and shape variable. Pods 2 to 4 segmented; testa flesh, tan or pink.

337340 to 337361—Continued**337340 to 337357—Continued**

337349. Col. 341. At store "Almencar Jorcito", Paso Florentin, Department of General Paz, Corrientes Province. Pods 2 segmented, strongly ribbed, medium large; testa flesh. Larger than Spanish. Considered Virginia type by agronomist in Corrientes.

On Route 13, 18 km. from General Paz, Corrientes Province.

337350. Col. 342. Valencia. Pods mostly 2 segmented, some 3 segmented; testa purple. Mixture.

337351. Col. 343. Valencia. Pods 2 to 3 segmented; testa red. Mixture.

From grower Sr. Lorenzo Barrios, on Route 12, 5 km. north of Empedrado, Corrientes.

337352. Col. 347. Valencia. Pods 2 or 3 segmented; testa purple or wine.

337353. Col. 348. Local name Nuez. Seed large; testa variegated red and white. Late maturity. Different variety from P.I. 337352.

337354. Col. 350. Testa tan. Seed very large for tan-testa variety. Pods strongly ridged. Later maturity than Spanish. Mixture.

337355. Col. 351. Pods strongly ribbed; seed moderately large; testa red. Maturity later than Spanish. Mixture.

337356. Col. 352. Pods strongly ribbed; seed moderately large; testa flesh on white. Maturity not early. Mixture.

337357. Col. 353. Pods smaller than other components of mixture, usually 3 segmented; testa purple.

337358. ARACHIS PARAGUARIENSIS Chod. & Hassl.

Col. 331. Faculty of Agronomy and Veterinary, Genetics Garden, maintained by A. Krapovickas. Erect, taprooted; branches sparse; leaves leathery, lanceolate; pegs to 61 cm. long. Pods many, immature. Originally from Paraguay.

337359. ARACHIS sp.

Col. 326. AK 9841. Genetics Garden, Faculty of Agronomy and Veterinary. Original collection 54 km. north of Campo Grande. Perennial, erect, taprooted; to 51 cm. high; branches few; leaflets linear. Prolific seeder in sand. Clonal material number P.I. 338313.

337360. ARACHIS sp.

Col. 328. AK 12593. Faculty of Agronomy and Veterinary, Genetics Garden. Prostrate, taprooted; flowers orange, many. Seeds sprouting. Bristles in stipules.

337361. ARACHIS sp.

Col. 329. AK 12787. Faculty of Agronomy and Veterinary, Genetics Garden. Prostrate, matted, leaflets large, dark green; prolific seeder; flowers light yellow. Roots at nodes. Stoloniferous. Originally from Brazil.

337362. ORYZA SATIVA L. Gramineae. **Rice.**

From Taiwan. Seed presented by Agricultural Research Institute, Taipei. Received Sept. 5, 1968.

Sh 30-21.

337363. CELTIS SPINOSA Spreng. Ulmaceae.

From Argentina. Seed presented by Instituto de Botanica Agricola, Castelar, Provincia De Buenos. Received Sept. 6, 1968.

337364. TREVIA NUDIFLORA L. Euphorbiaceae.

From India. Seed presented by the Indian Agricultural Research Institute, New Delhi. Received Sept. 6, 1968.

I.C. 58. Origin New Forest, Dehra Dun.

337365. PRUNUS PERSICA (L.) Batsch Rosaceae. Peach.

From Japan. Budsticks presented by the Horticultural Research Station, Ministry of Agriculture and Forestry, Hiratsuka. Received Sept. 12, 1968.

'Feitcheng-fu-Tao. Origin Kanagawa-ken.

337366 to 337371. TRITICUM AESTIVUM L. Gramineae. Common wheat.

From India. Seed presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Sept. 16, 1968.

337366. 'Choti Lerma (S331)'. **337369.** 'Safed Lerma (S307)'.

337367. 'NP. 875'. **337370.** 'Sona 227'.

337368. 'Penjamo 62'. **337371.** 'Sonaliika (S308)'.

337372 to 337432. ARACHIS HYPOGAEA L. Leguminosae.

From Argentina. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Received Sept. 16, 1968. Obtained from A. Krapovickas, Faculty of Agronomy and Veterinary, National University of the Northeast, Corrientes. Originally from Experiment Station, Caacupe, Paraguay.

337372. Col. 226. Local name Blanco Grande. FAV 24, 1968 plot 361.

337373. Col. 227. Local name Negro Grande. FAV 23, 1968 plot 362.

337374. Col. 228. Local name Colorado. FAV 26, 1968 plot 363.

337375. Col. 229. Local name Negrito. FAV 22, 1968 plot 364.

337376. Col. 230. P.I. 121070. FAV 25, 1968 plot 365.

337377. Col. 231. FAV 84, 1968 plot 371. Originally from Alfara, Tarragona Province, Spain.

337378. Col. 233. FAV 19, 1968 plot 373. Originally from Corrientes, San Luis del Palmar.

Originally from Corrientes City Market.

337379. Col. 232. FAV 67, 1968 plot 372.

337380. Col. 234. FAV 63, 1968 plot 374.

337381. Col. 235. FAV 62, 1968 plot 375.

337382. Col. 236. FAV 73, 1968 plot 376.

337383. Col. 237. FAV 57, 1968 plot 377.

337384. Col. 238. FAV 61, 1968 plot 379.

337385. Col. 239. FAV 56, 1968 plot 380.

337386. Col. 240. FAV 77, 1968 plot 381.

337387. Col. 241. FAV 81, 1968 plot 382.

337388. Col. 242. FAV 75, 1968 plot 383. Empedrado.

337389. Col. 243. FAV 68, 1968 plot 384.

337390. Col. 244. FAV 79, 1968 plot 385.

337391. Col. 245. FAV 71, 1968 plot 386.

337372 to 337432—Continued

337392. Col. 246. FAV 82, 1968 plot 387.
337393. Col. 247. FAV 66, 1968 plot 388. Bella Vista.
337394. Col. 248. FAV 78, 1968 plot 389.
337395. Col. 249. FAV 58, 1968 plot 390. Paso Pesoa.
337396. Col. 250. FAV 70, 1968 plot 391.
337397. Col. 251. FAV 80, 1968 plot 392.
337398. Col. 252. FAV 76, 1968 plot 393.
Originally from Morocco.
337399. Col. 253. 'White Spanish-32'. FAV 185, 1968 plot 406.
337400. Col. 254. 'Sakaria-3'. FAV 186, 1968 plot 407.
337401. Col. 255. 'Espangnole de Valence-37'. FAV 187, 1968 plot 408.
337402. Col. 256. 'Bombay-1'. FAV 188, 1968 plot 409.
337403. Col. 257. Selection 27 from Cuba 15,237. FAV 190, 1968 plot 411.
337404. Col. 258. FAV 151, 1968 plot 413. Collected in Posadas, Misiones Province.
- Collected in Paraguari, Paraguay.
337405. Col. 259. Local name Negrito. FAV 152, 1968 plot 415.
337406. Col. 260. FAV 153, 1968 plot 416.
Collected in Yaguaron, Paraguay.
337407. Col. 261. Local name Colorado. FAV 154, 1968 plot 417.
337408. Col. 262. Local name Negro. FAV 156, 1968 plot 418.
337409. Col. 263. Local name Rosado. FAV 155, 1968 plot 419.
337410. Col. 264. Local name Negro. FAV 156, 1968 plot 422.
337411. Col. 265. Local name Amendoim-52. FAV 94, 1968 plot 426.
Originally from Manfredi.
- Originally from Samba Sapke, Paraiba, Brazil.
337412. Col. 266. Local name Sape Roxo. FAV 171, 1968 plot 664.
337413. Col. 267. Local name Havana. FAV 167, 1968 plot 666.
337414. Col. 268. Local name Tatu. FAV 166, 1968 plot 669.
337415. Col. 269. Local name Acre. FAV 170, 1968 plot 670.
337416. Col. 270. Local name C.S. 4. FAV 164, 1968 plot 671.
337417. Col. 271. Local name Roxo 40. FAV 168, 1968 plot 672.
337418. Col. 272. Local name Roxo 54. FAV 162, 1968 plot 673.
337419. Col. 273. Local name Tatui. FAV 160, 1968 plot 674.
337420. Col. 274. Local name C.S. 8. FAV 161, 1968 plot 675.
337421. Col. 275. FAV 192, 1968 plot 676. Originally from Joazeiro, Bahia, Brazil.
337422. Col. 276. FAV 174, 1968 plot 680. (Originally from Sao Paulo). Collected in supermarket, Itaburia, Bahia, Brazil. Originally from Cruz das Almas, Bahia, Brazil (I.P.E.A.L.).
337423. Col. 277. Local name Sassuare V.14. FAV 175, 1968 plot 683.
337424. Col. 278. Local name Vagemlisa V.22. FAV 177, 1968 plot 684.
337425. Col. 279. Local name Maranhao V.26. FAV 178, 1968 plot 685.

337372 to 337432—Continued

337426. Col. 280. Local name Sape Roxo V.27. FAV 179, 1968 plot 686.
 337427. Col. 281. Local name Paraiba Acu, V.108. FAV 180, 1968 plot 687.
 337428. Col. 282. Local name Saleval II. FAV 182, 1968 plot 689.
 337429. Col. 283. FAV 150, 1958 plot 694. Originally from Mexico City, Mexico, market.
 337430. Col. 284. FAV 158, 1968 plot 695. Originally from Lima, Peru.
 337431. Col. 285. Local name Negro Riachuelo. FAV 128, 1968 seed. Originally from Paso Pesoa, Corrientes.
 337432. Col. 286. Local name Blanco Palmar Grande. FAV 129, 1968 seed. Originally from Palmar Grande, Department Gral Pas, Corrientes.

337433 to 337441.

From the Union of Soviet Socialist Republics. Scions collected in 1967 by Howard J. Brooks, Crops Research Division, Plant Industry Station, Beltsville, Md. Numbered Sept. 18, 1968.

337433 to 337436. MALUS SYLVESTRIS Mill. Rosaceae. Apple.

337433. Col. B-59. About 20 km. south southwest of Stavropol, on forested plateau. Rainfall 500 mm. Elevation 600 m. Tree old, in abandoned orchard; fruit early, yellow green, nice finish, 6 cm. diameter, sour but edible.

337434. Col. B-87. About 130 km. south of Stavropol, near Elycha, in area of Mt. Barahaka. Elevation 990 m. Fruit red, 5 cm. diameter, sweet, shaped like 'Red Delicious'. Best wild apple seen. Tree barely surviving.

Dombay. Elevation 1,600 m. Forester's home orchard. Highest elevation where apples were found.

337435. Col. B-94. Fruit to 6 cm. diameter, green, tart.

337436. Col. B-113. Best tree in orchard. No fruit.

337437 to 337441. PYRUS COMMUNIS L. Rosaceae. Common pear.

337437. Col. B-53. About 20 km. south southwest of Stavropol, on forested plateau. Elevation 600 m. Rainfall about 500 mm. Tree large in open; fruit to 3.0 cm., ovate, moderate grit, astringent, early to ripen; stem 2.5 cm.

About 20 km. south southwest of Stavropol, on forested plateau. Rainfall 500 mm. Elevation 600 m.

337438. Col. B-61. Tree very large, in old abandoned orchard; best of pears; fruit 5 cm. diameter, pyriform, yellow, early, much grit, astringent; stem 3 cm.

337439. Col. B-63. Tree extremely large, 56 cm. diameter; in old abandoned orchard. Fruit 4 cm. diameter, pyriform, yellow, showy calyx, very gritty, astringent; stem 5 cm.

337440. Col. B-112. Thirteen km north of Teberda Resort, in open pastures. Tree very large; fruit ovate, yellow, small core, very astringent, no grit; stem 3 cm.

337441. Col. B-114. Dombay. Elevation 1,600 m. In back of forester's home orchard. Tree 1.2 m. diameter, largest tree seen, estimated 24 m. high. No fruit.

337442 and 337443. CYDONIA OBLONGA Mill. Rosaceae. Quince.

From Australia. Plants presented by Balhannah Nurseries, Balhannah. Numbered Sept. 18, 1968.

337442 and 337443—Continued

337442. 'Pineapple'.

337443. 'Smyrna'.

337444 to 337448. PYRUS COMMUNIS L. Rosaceae.**Common pear.**

From the Union of Soviet Socialist Republics. Scions presented by All-Union Institute of Plant Industry, Leningrad. Received Sept. 18, 1968.

'Rousselet of Stuttgart'. (Russelet Shtutgartskii \times Dr. J. Gujo).

337444. No. II.

337447. No. VIII.

337445. No. V.

337448. No. IX.

337446. No. VII.

337449 to 337451. DOLICHOS LABLAB L. Leguminosae.**Hyacinth-bean.**

From Zambia. Seed presented by W. C. Verboom, Department of Agriculture, Lusaka. Received Sept. 18, 1968.

337449. No. 1. Black seed.

337450. No. 2. Brown seed.

337451. No. 3. White seed.

337452 to 337459. ARACHIS HYPOGAEA L. Leguminosae.

From Argentina. Seed presented by Jose R. Pietrarelli, Estacion Experimental Agropecuaria, Manfredi. Received Sept. 18, 1968.

337452. Manfredi Virginia 1. (N.C. 329-1-1m).

337453. Manfredi Virginia 2. (N.C. 314-3-2m).

337454. Manfredi Virginia 3. (N.C. 314-3-2 (1 a 15)).

337455. Manfredi Virginia 4. (Florigiant).

337456. Manfredi Virginia 5. (Fla. 416-2).

337457. Manfredi Virginia 6. (N.C. 2).

337458. Manfredi Virginia 7. (N.C. 340-3-2m).

337459. Manfredi Selection. A.C. 333 (N.C. 5).

337460 to 337507.

From Brazil. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, Ga., and Experiment, Ga. Received Sept. 18, 1968.

337460 and 337461. AXONOPUS COMPRESSUS (Swartz) Beauv. Gramineae.
Tropical carpetgrass.

337460. Col. 404. Fifteen km. north of Caxias do Sul, Rio Grande do Sul.

337461. Col. 445. Near rain forest south of Itajai, Santa Catarina. Broad-leaved form.

337462. AXONOPUS sp.

Col. 444. Near rain forest south of Itajai. Santa Catarina. Heavily grazed area.

337463. AXONOPUS sp.

Col. 458. Forty-five km. east of Curitiba, toward Antonina, Parana. Elevation 850 m. To 30 cm. high; sod forming.

337460 to 337507—Continued

337464. BRACHIARIA sp. Gramineae.

Col. 446. Near rain forest south of Itajai, Santa Catarina.

337465. CALLIANDRA sp. Leguminosae.

Col. 406. From Botanic Garden, University of Sao Leopoldo, Sao Leopoldo, Rio Grande do Sul.

337466. CASSIA sp. Leguminosae.

Col. 452. Paranaqua, Parana. Vine; stems fine.

337467 and 337468. CICER ARIETINUM L. Leguminosae. Chickpea.

337467. Col. 398. Central market, Porto Alegre, Rio Grande do Sul.

337468. Col. 449. Super market in Curitiba, Parana.

337469. DESMODIUM sp. Leguminosae.

Col. 405. Ten km. north of Rio do Sul, Santa Catarina. Plants 0.9 m. high, erect.

337470. DESMODIUM sp.

Col. 439. Route 116, 346 km. southwest of Sao Paulo, Parana. Vine growing on rocky cliff; stems 0.9 m. long; prostrate.

337471. DESMODIUM sp.

Col. 440. Route 116, 346 km. southwest of Sao Paulo, Parana. Plant tall, erect; long taproot; branches sparse; leaves 2.54 cm. diameter.

337472. DESMODIUM sp.

Col. 441. Route 116, 346 km. southwest of Sao Paulo, Parana. Perennial vine; stems purple pink; leaves 2.54 cm. diameter.

337473. DESMODIUM sp.

Col. 442. Route 116, 346 km. southwest of Sao Paulo, Parana. Prostrate vine growing on rocky cliff, 15 cm. high; stems and leaves fine; flowers purple.

337474. DESMODIUM sp.

Col. 453. Paranaqua, Parana.

337475. GOSSYPIUM PERUVIANUM Cav. Malvaceae.

Col. 455. Antonina, Parana. Perennial.

337476. IPOMOEA CARICA (L.) Sweet Convolvulaceae.

Col. 407. From Botanic Garden, University of Sao Leopoldo, Sao Leopoldo, Rio Grande do Sul.

337477. IPOMOEA sp.

Col. 402. Twenty-nine km. north of Rio do Sul, Santa Catarina. Flowers white.

337478. IPOMOEA sp.

Col. 403. Three km. south of Apiuna, Santa Catarina. Vine; leaves narrow, deeply lobed; flowers white.

337479. IPOMOEA sp.

Col. 447. At Society of Jesus Seminary, Bursque, Santa Catarina. Plants vigorous; roots pink, enlarged, apparently edible; seed black, without pubescence.

337480 to 337482. LENS CULINARIS Medic. Leguminosae. Lentil.

337480. Col. 389. Central market, Porto Alegre, Rio Grande do Sul. Super market in Curitiba, Parana.

337460 to 337507—Continued**337480 to 337482—Continued**

337481. Col. 450.

337482. Col. 451.

337483. *MUCUNA DEERINGIANA* (Bort) Merr. Leguminosae.**Deering velvetbean.**

Col. 401. From Botanic Garden, University of Sao Leopoldo, Sao Leopoldo, Rio Grande do Sul. Grown as ornamental.

337484. *PASPALUM NICORAE* Parodi Gramineae.

Col. 436. East side of river bridge at Rosario do Sul, Rio Grande do Sul.

337485. *PASPALUM NOTATUM* Fluegge**Bahiagrass.**

Col. 435. Confluence of Rio Uruguay and Rio Quarai.

337486. *PASPALUM* sp.

Col. 400. Roadside seven km. north of Rio do Sul, Santa Catarina. Bunchgrass, 1.2 m. high; leafy.

337487. *PASPALUM* sp.

Col. 437. Sao Gabriel, Rio Grande do Sul.

337488. *PASPALUM* sp.

Col. 456. Eighteen km. northeast of Curitiba, Parana, enroute Sao Paulo.

337489. *PASPALUM* sp.

Col. 457. Eighteen km. northeast of Curitiba, Parana, enroute Sao Paulo. To 13 cm. high; sod forming.

337490. *PASPALUM* sp.

Col. 459. Forty-nine km. east of Curitiba, Parana. Elevation 800 m.

337491. *PASPALUM* sp.

Col. 460. Forty-nine km. east of Curitiba, Parana. Elevation 800 m.

337492. *PENNISETUM SPICATUM* (L.) Willd. Gramineae. **Pearl millet.**

Col. 438. Sao Gabriel, Rio Grande do Sul. Grown many years in this area.

337493 to 337502. *PHASEOLUS VULGARIS* L. Leguminosae. **Common bean.**

Market in Porto Alegre, Rio Grande do Sul.

337493. Col. 367. Testa black.

337494. Col. 368. Testa white with pink.

337495. Col. 369. Testa cream.

Central market, Porto Alegre, Rio Grande do Sul.

337496. Col. 390.

337497. Col. 391. Testa white.

337498. Col. 392. Testa pink.

337499. Col. 393. Testa black

337500. Col. 394. Testa gray.

337501. Col. 395. Testa gray.

337502. Col. 396. Testa black.

337503. *SOLANUM* sp. Solanaceae.

Col. 448. Km. 50, enroute from Itajai, Santa Catarina. Plants to 46 cm. high; spines on stems and leaves; fruits yellow, 1.6 cm. diameter.

337460 to 337507—Continued**337504. STYLOSANTHES sp. Leguminosae.**

Col. 443. Port area, Paranagua, Parana. Plant 60 cm. high, stemmy; leaves few.

337505. STYLOSANTHES sp.

Col. 454. Paranagua, Parana. Plant erect, leafy; branches 38 cm. high; stems small.

337506. VIGNA SINENSIS (Torner) Savi Leguminosae. Common cowpea.

Col. 397. Central market, Porto Alegre, Rio Grande do Sul. Testa tan.

337507. ZORNIA sp. Leguminosae.

Col. 363. Near Km.144, 14 km. east of Uruguaiana on road to Alegrete, Rio Grande do Sul.

337508 to 337601.

From Argentina. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Received Sept. 20, 1968.

337508. ANDROPOGON LATERALIS Nees Gramineae.

Col. 418. Botanic Garden, Northeast National University, Corrientes. Two m. high. Dominant grass in sandy soils throughout Province.

337509. ANDROPOGON sp.

Col. 99. Roadside, Route 20, at Villa Carlos Paz, Cordoba Province.

337510. ANDROPOGON sp.

Col. 189. From Rafaela Experiment Station, Rafaela. Plants bunch, 1.3 m. high.

337511. ANDROPOGON sp.

Col. 209. Near Route 313, 4 km. west of Colonia Mascias, Santa Fe Province.

337512. ARUNDO DONAX L. Gramineae. Giantreed.

Col. 320. KM. 49 on Route 126, Entre Rios Province.

337513. AXONOPUS SUFFULTUS (Trin.) Parodi Gramineae Carpetgrass.

Col. 192. Rafaela Experiment Station. Originally collected near railroad in Rafaela. Bunchgrass, to 76 cm. high, erect; foliage tough.

337514. BRACHIARIA BRIZANTHA (Hochst.) Stapf Gramineae. Palisade signalgrass.

Col. 302. Instituto Nacional de Tecnologia Agropecuaria El Sombrerito, Corrientes Province.

337515. BRACHIARIA PLATYPHYLLA (Griseb.) Nash

Col. 198. Rafaela Experiment Station growing as weed in *Agropyron* plots. Plants to 3 m. high.

337516. BROMUS RIGIDUS Roth Gramineae. Ripgut brome.

Col. 311. From A. G. Schulz, Instituto Nacional de Teconologia Agropecuaria, Colonia Benitz, Chaco Province.

337517 and 337518. BROMUS UNIOLOIDES HBK.

337517. Col. 193. Growing at Experiment Station, Rafaela. Originally collected by George Fossati at Colonia Mascias, along roadside. Two-year stand; 30 percent protein. Reseeds well. Yields 1,200 kg/ha. Resistant to ergot.

337508 to 337601—Continued

337517 and 337518—Continued

337518. Col. 313. From A. G. Schulz, Instituto Nacional de Tecnologia Agropecuaria, Colonia Benitz, Chaco Province. Ecotype common to Chaco area.

337519 and 337520. CAJANUS CAJAN (L.) Millsp. Leguminosae. **Pigeon-pea.**

Forage test plots, Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province.

337519. Col. 288. Plot 1. Perennial, 3 m. high, erect, woody; late flowering.

337520. Col. 289. Plot 2. Perennial, 3 m. high, erect, woody; flowers yellow, late.

337521. CAJANUS FLAVUS DC.

Col. 290. Forage test plots, Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province. Perennial, erect, branching, woody, 3.3 m. high; late maturing.

337522 and 337523. CAPSICUM FRUTESCENS L. Solanaceae. **Redpepper.**

On Route 5, 30 km. east of Corrientes City, Corrientes.

337522. Col. 433.

337523. Col. 434.

337524. CAPSICUM sp.

Col. 432. Five km. northeast of General Paz, Corrientes Province. Plants glabrous; single; fruits 4 mm. diameter, 7 mm. long. Flower white.

337525. CASSIA OCCIDENTALIS L. Leguminosae. **Senna.**

Col. 296. Road bank along Route 12 near arroyo Rio Chuela. To 1.2 m. high; branches spreading; prolific seeder.

337526. CASSIA ROTUNDIFOLIA Pers.

Col. 292. Plot 32, forage test plots, Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province. Perennial, prostrate, somewhat viny; stems fine.

337527. CHLORIS POLYDACTYLA (L.) Swartz Gramineae.

Col. 304. Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province. Stems leafy, coarse; stoloniferous with new plants forming at internodes.

337528. CHLORIS RETUSA Lag.

Col. 211. Twenty km. southwest of San Javier. Bunchgrass 1.5 m. high; very leafy; stems coarse.

337529. CHLORIS sp.

Col. 100. Villa Carlos Paz, Cordoba Province. Ornamental grass growing on dry rocky soil, to 102 cm. high; leaves wide, fleshy.

337530. CHLORIS sp.

Col. 210. Near Route 313, west of Colonia Mascias, Santa Fe Province. Bunchgrass, 0.9 m. high; growing in association with *Spartina*.

337531. CHLORIS sp.

Col. 423. Botanic Garden, Northeast National University, Corrientes. Stoloniferous.

337508 to 337601—Continued

337532. *DESMODIUM RIEDELI* (Schindl.) Burkart Leguminosae.

Col. 287. Plot 3, forage test plots, Instituto Nacional de Tecnología Agropecuaria, El Sombrerito, Corrientes Province. Perennial, woody, erect, 1.8 m. high. Native.

337533. *DESMODIUM* sp.

Col. 294. Near entrance to Instituto Nacional de Tecnología Agropecuaria, Belle Vista, Corrientes Province. Low growing, leafy. Growing on red clay soil in association with *Paspalum* spp.

337534. *DOLICHOS BIFLORUS* L. Leguminosae. Twinflower dolichos.

Col. 225. Growing as ornamental vine on patio of San Martin Hotel, La Paz.

337535. *DOLICHOS LABLAB* L. Hyacinth-bean.

Col. 345. Botanic Garden, Northeast National University, Corrientes. Vine covering trellis 3.6 m.; flowers purple to white; fruits 4 to 5 seeded, immature.

337536. *HEMARTHRIA* sp. Gramineae.

Col. 199. Rafaela Experiment Station. Bunchgrass to 1.2 m. high. Native.

337537. *HYPARRHENIA RUFA* (Neese) Stapf Gramineae. Jaragua grass.

Col. 310. From A. G. Schulz, Instituto Nacional de Tecnología Agropecuaria, Colonia Benitz. Bunchgrass, tall.

337538. *INDIGOFERA* sp. Leguminosae.

Col. 309. Roadside of Route 27, 8 km. north of Esquina, Corrientes Province. Plant prostrate, viny; stems fine, leafy. Heavily grazed, trampled.

337539. *INDIGOFERA* sp.

Col. 430. Ten km. northeast of General Paz, Corrientes Province. Perennial shrub, woody, to 1.2 m. high.

337540. *INDIGOFERA* sp.

Col. 431. General Paz, Corrientes Province. Prostrate vine.

337541. *IPOMOEA* sp. Convolvulaceae.

Col. 321. Arroyo Rio Chuelo bridge, old Route 12, Corrientes Province.

337542. *IPOMOEA* sp.

Col. 358. Route 12 at Rio Empedrada, Corrientes Province. Viny plant on road bank.

337543. *IPOMOEA* sp.

Col. 429. Growing in fence bordering Genetic Garden, Faculty of Agriculture and Veterinary, Northeast National University, Corrientes Province. Wild plant.

337544. *LEPTOCHLOA CHLORIDIFORMIS* (Hack.) Parodi Gramineae. Sprangletop.

Col. 314. From A. G. Schulz, Instituto Nacional de Tecnología Agropecuaria, Colonia Benitz, Chaco Province.

337545. *LEPTOCHLOA VIRGATA* (L.) Beauv. Sprangletop.

Col. 421. From Botanic Garden, Northeast National University, Corrientes.

337546 and 337547. *MANISURIS SELLOANA* (Hack.) Kuntze Gramineae.

337508 to 337601—Continued

337546 and 337547—Continued

337546. Col. 427. Ten km. west of San Javier, Santa Fe Province.

337547. Col. 428. On Route 20, 23 km. south of Bella Vista, Corrientes Province. Plant prostrate, small, 20 cm. high, with short rhizomes.

337548. *OCIMUM NEUROPHYLLUM* Briq. Labiatae.

Col. 426. From Botanic Garden, Northeast National University, Corrientes.

337549. *ORYZA SATIVA* L. Gramineae.

Rice.

Col. 217. 'Ibera' selection. Colonia Mascias, Instituto Nacional de Tecnologia Agropecuaria, Santa Fe Province.

337550. *PANICUM DICHOTOMIFLORUM* Michx. Gramineae. Fall panicgrass.

Col. 316. From A. G. Schulz, Instituto Nacional de Tecnologia Agropecuaria, Colonia Benitz, Chaco Province.

337551 and 337552. *PANICUM MAXIMUM* Jacq. Gramineae. Guineagrass.

337551. Col. 300. Forage test plots, Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province. Stems coarse.

337552. Col. 315. 'Pasto'. From A. G. Schulz, Instituto Nacional de Tecnologia Agropecuaria, Colonia Benitz, Chaco Province.

337553. *PANICUM* sp.

Col. 196. Rafaela Experiment Station. Plants erect, to 1 m. high. New plants coming from rhizomes.

337554. *PAPPOPHORUM* sp. Gramineae.

Col. 201. KM.243 on Route 19, in vicinity of Rio Primero. Bunchgrass to 1.2 m. high. Dominant species in area.

337555 and 337556. *PASPALUM ALCALINUM* Mez Gramineae.

337555. Col. 195. Rafaela Experiment Station. Dense, sodforming grass. Stolons long.

337556. Col. 312. From A. G. Schulz, Instituto de Tecnologia Agropecuaria, Colonia Benitz, Chaco Province.

337557. *PASPALUM BOSCIANUM* Fluegge

Col. 190. Rafaela Experiment Station. Dense bunchgrass, to 1.2 m. high; foliage tough.

337558. *PASPALUM CONJUGATUM* Berg

Col. 425. Botanic Garden, Northeast National University, Corrientes. Rhizomatous; to 51 cm. high.

337559. *PASPALUM GUENOARUM* Arech.

Col. 298. Forage test plots, Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province. Bunchgrass, to 1.2 m. high; stem and leaves coarse.

337560 and 337561. *PASPALUM LIVIDUM* Trin. ex Schlecht.

337560. Col. 197. Rafaela Experiment Station. Stoloniferous, sod forming, to 0.9 m. high; stems coarse.

337561. Col. 318. From A. G. Schulz, Instituto Nacional de Tecnologia Agropecuaria, Colonia Benitz, Chaco Province.

337562 and 337563. *PASPALUM NICORAE* Parodi

337562. Col. 293. Road ditch, Route 20 at entrance to Instituto Nacional de Tecnologia Agropecuaria, Belle Vista, Corrientes Province. Perennial, prostrate, sod forming, rhizomatous, to 51 cm. high.

337508 to 337601—Continued**337562 and 337563—Continued**

337563. Col. 308. Thirty-seven km. south of Goya on Route 27, Corrientes Province. Perennial, prostrate, rhizomatous. Growing in moist sandy soil in road ditch.

337564 to 337579. PASPALUM NOTATUM Fluegge Bahiagrass.

337564. Col. 200. Rafaela Experiment Station. Broad-leaved, prostrate form.

337565. Col. 212. Helvecia, Santa Fe Province. Farm of Angel Dusso.

337566. Col. 213. Cayasta, Santa Fe Province. Bank of Rio San Javier, at original site of Santa Fe.

337567. Col. 214. Cayasta, Santa Fe Province. Along Route 168A. Farm of Esteban Bonguan.

337568. Col. 215. Fifteen km. southwest of San Javier, Santa Fe Province. Small, narrow-leaf form.

337569. Col. 216. Route 72S, one km. south of Cacique Ariacaiquin, Santa Fe Province. Intermediate form.

Berduc Island, in Parana river, east of Santa Fe, Santa Fe Province.

337570. Col. 219. Similar to 'Pensacola' bahigrass.

337571. Col. 220. Narrow-leaf form. Similar to 'Pensacola' bahiagrass.

337572. Col. 221. Narrow-leaf form, with three spikes.

337573. Col. 22. Plants with 4 spikes.

337574. Col. 223. Plants with 4 or 6 spikes common.

337575. Col. 305. Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province. Spikes very long, curved.

337576. Col. 306. Route 27, 5 km. north of San Isidro, Corrientes Province.

337577. Col. 307. Arroya Vega, Route 27, south of Esquira.

337578. Col. 360. East bank of Rio Mirinay, 50 km. northwest of Paso do los Libres, Corrientes Province. Similar to 'Pensacola' bahiagrass.

337579. Col. 361. At Paso Rosario crossing of Rio Mirinay, 50 km. northwest of Paso do los Libres, Corrientes Province.

337580 to 337584. PASPALUM PLICATULUM Michx. Brownseed paspalum.

337580. Col. 191. Rafaela Experiment Station. From collection of George Fossati. Bunchgrass, 1 m. high. Drought resistant.

Forage test plots. Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province.

337581. Col. 297. Plot 36.

337582. Col. 29. Plot 34.

337583. Col. 317. From A. G. Schulz, Instituto Nacional de Tecnologia Agropecuaria, Colonia Benitz, Chaco Province.

337584. Col. 415. Botanic Garden, Northeast National University, Corrientes. Originally collected in Corrientes Province. Common but not a major species. Grows in association with *P. nicorae*.

337585. PASPALUM ROJASII Hack.

Col. 303. Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province. Bunchgrass, leaves coarse; 5 to 6 spikes.

337508 to 337601—Continued

337586. *PASPALUM* sp.

Col. 417. Botanic Garden, Northeast National University, Corrientes. Bunchgrass, to 1.2 m. high.

337587. *PASPALUM* sp.

Col. 420. Botanic Garden, Northeast National University, Corrientes.

337588. *PENNISETUM FRUTESCENS* Leeke Gramineae.

Col. 194. Rafaela Experiment Station. From collection of George Fos-sati. Plants 1.5 m. high. Erect, stemmy bunchgrass.

337589 and 337590. *PHASEOLUS VULGARIS* L. Leguminosae. Common bean.

337589. Col. 97. Pole type. Testa pink on white.

337590. Col. 98. Pole type. Testa black.

337591. *PHASEOLUS* sp.

Col. 291. Plot 24 at Instituto Nacional de Tecnologia Agropecuaria, Corrientes Province. Perennial, viny; stems fine; foliage dense, trifoliate.

337592. *POA PILCOMAYENSIS* Hack. Gramineae.

Col. 319. From A. G. Schulz, Instituto Nacional de Tecnologia Agropecuaria, Colonia Benitz, Chaco Province.

337593. *RICINUS COMMUNIS* L. Euphorbiaceae Castorbean.

Col. 224. At Arroya Las Conchas on Route 126, 25 km. northeast of Parana. Plants 1.2 m. high; foliage dark green; fruiting near ground.

337594. *SCHIZACHYRIUM* sp. Gramineae.

Col. 416. Botanic Garden, Northeast National University, Corrientes.

337595. *SESBANIA* sp. Leguminosae.

Col. 295. Arroya Rio Chuelo, south of Corrientes City, Corrientes Province, on Route 12. Plants 2.4 m. high, erect; branches sparse.

337596. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. ex M. B. Moss Gramineae. Millet.

Col. 301. Instituto Nacional de Tecnologia Agropecuaria, El Sombrerito, Corrientes Province. Leafy form; stems fine.

337597. *SOLANUM SISYMBRIFOLIUM* Lam. Solanaceae.

Col. 344. On Route 12, 10 km. south of Corrientes. To 1.2 m. high; thorns or spines 1.27 cm. long. Fruits red, 2 cm. diameter. Edible.

337598. *TRICHLORIS PLURIFLORA* Fourn. Gramineae.

Col. 424. Botanic Garden, Northeast National University, Corrientes. Bunchgrass, to 1.2 m. high.

337599. *VERNONIA CHAMAEDRYIS* Less. Compositae.

Col. 419. Botanic Garden, Northeast National University, Corrientes. Perennial shrub, woody, to 1.2 m. high.

337600. *VERNONIA* sp.

Col. 359. Rio Impedrado, Corrientes Province. Shrub, to 1 m. high, branching, woody.

337601. *ZORNIA* sp. Leguminosae.

Col. 356. Route 27, at Rio Mirinay (Paso Rosario), between Mercedes and Paso de los Libres. Perennial, low-growing; flowers yellow, surrounded by bracts; fruits spiny. Leaf bifoliate, glabrate.

337602. ZOYSIA sp. Gramineae.

From Costa Rica. Stolons collected by A. J. Oakes, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Sept. 24, 1968.

Col. 793. Los Diamantes Experiment Station. Prostrate form. Probably does not require mowing.

337603. TRIPSACUM LATIFOLIUM Hitch. Gramineae.

From Costa Rica. Canes collected by A. J. Oakes, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Sept. 27, 1968.

Col. 794. IICA, Turrialba. Plants 3 to 4 m. Canes leafy, 2 to 3 cm. at base.

337604 and 337605. TRITICUM AESTIVUM L. Gramineae. Common wheat.

From England. Seed presented by the Rothwell Plant Breeders Limited, Grimsby, Lincolnshire. Received Sept. 30, 1968.

337604. 'Mildress'.

337605. 'Rothwell Sprite'.

337606. BRACHIARIA DECUMBENS Stapf Gramineae.

From Costa Rica. Stolons collected by A. J. Oakes, Crops Research Division, Plant Industry Station, Beltsville, Maryland. Received Oct. 1, 1968.

Col. 796. Los Diamantes Experiment Station. Sodgrass, roots at lower nodes. Height 60 to 70 cm.

337607 and 337608. FRAGARIA (hybrid). Rosaceae.

From Scotland. Plants presented by the Scottish Horticultural Research Institute, Mylnefield, Invergowrie, Angus. Received Oct. 1, 1968.

337607. 60 CE 5.

337608. 61 J 31.

337609. PRUNUS PERSICA (L.) Batsch Rosaceae. Peach.

From Argentina. Seed presented by the Instituto Nacional de Tecnologia Agropecuaria, Estacion Experimental Agropecuaria Mendoza, Mendoza. Received Oct. 1, 1968.

Wild. Used for rootstock by local nurseries.

337610. ACTINIDIA CALLOSA var. FORMOSANA Finet & Gagnep. Actinidiaceae.

From Taiwan. Seed presented by Botany Department, National Taiwan University, Taipei. Received Oct. 1, 1968.

Huang 4805. Lishan, Taichun. Elevation 1,500 m. Fruits oblong-obovate, green, turning brownish at maturity; 1.3 cm. to 3.8 cm. long, to 2.0 cm. in diameter. Scurfy, but free of hairs. Seeds small.

337611. AMARANTHUS sp. Amaranthaceae.

From Uganda. Seed collected December 1967 by L. V. Peters, Crops Research Division, United States Department of Agriculture, Serere Experiment Station, Soroti. Received Oct. 2, 1968.

Col. P-273. Kitoba market.

337612. SORBUS AUCUPARIA L. Rosaceae.**European mountain-ash.**

From the United States. Seed collected by Quentin Jones, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Oct. 2, 1968. 1968.

Col. 68011. Five miles southwest of Sappho along United States Route 101, Clallam County, Washington. Tree to 40 feet high; leaves odd pinnate; fruit showy, persistent, varying from yellow orange to deep red.

337613 to 337617. HIBISCUS ROSA-SINENSIS L. Malvaceae.**Chinese hibiscus.**

From Australia. Plant material presented by Hibiscus Park Nursery, Warriewood, New South Wales. Numbered Oct. 2, 1968.

337613. 'Black Beauty'. To 6 feet high. Vigorous. Flowers single, 9 inches diameter, rich claret red. Flowers on second year wood, blooms profusely if left unpruned.

337614. 'Bruceii'. To 7 feet high, hardy. Flowers single, 7 inches diameter, bright gold, white eye.

337615. 'Cameo Queen'. To 5 feet high, hardy. Flowers single, 8 inches diameter, overlapped, pale lemon.

337616. 'Mrs. Tomkins'. To 5 feet high, hardy. Flowers single, 8 inches diameter, pastel pink.

337617. 'Surf Rider'. To 5 feet high, very prolific, prostrate. Flowers 10 inches diameter, gold with red eye.

337618 and 337619. RHODODENDRON (hybrid). Ericaceae.

From the United States. Selections made at United States Plant Introduction Station, Glenn Dale, Md. Numbered Oct. 2, 1968.

337618. 'Ben Morrison'. Azalea to 3 feet high; dense, twiggy; leaves medium green, dull, semi-evergreen; flowers single to 3 inches across in clusters, ground color Empire Rose with showy blotch of Tyrian Rose, petal margins irregularly white. Mid to late May. Hardy at Glenn Dale, Md.

337619. 'Mrs. LBJ'. Azalea to 3 feet high; leaves medium green, shiny on new growth; flowers hose-in-hose, nearly double, wavy margins to 3 inches across in clusters of 2 or 3, white. Late May. Hardy at Glenn Dale, Maryland.

337620. PENNISEUM PURPUREUM Schum. Gramineae.**Elephantgrass.**

From Costa Rica. Canes collected by A. J. Oakes, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Oct. 4, 1968.

Col. 798. Acc. No. 66.004 IICA, Turrialba. Originally from Panama. Canes 3 to 5 m. high, 1 to 2 cm. in diameter at base.

337621 to 337641.

From Zambia. Seed collected by J. Anton-Smith, Chief Research Officer, Mount Makulu Research Station, Chilanga. Received Oct. 7, 1968.

337621. *BAIKIAEA PLURJUGA* Harms Leguminosae. **Rhodesian teak.**
Tree. Flowers pink.

337622. *BAISSEA WULFHORSTII* Schinz Apocynaceae.
Climbing. Flowers white, scented. Grown in coarse sandy soil.

337623. *BARLERIA MATOPENSIS* S. Moore Acanthaceae.
Shrub to 3 feet high. Flowers white.

337621 to 337641—Continued

337624. *BAUHINIA PERTERSIANA* Bolle. Leguminosae.

Tree. Flowers white.

337625. *CROSSANDRA PUBERULA* Klotzsch Acanthaceae.

Herb. Flowers orange.

337626 to 337628. *CROSSANDRA SPINESCENS* Dunkley

337626. Flowers scarlet.

337627. From Kenya. Flowers lemon yellow.

337628. From Zambia. Flowers yellow.

337629. *DIRICHLETIA PUBESCENS* Klotzsch Rubiaceae.

. Shrubby tree to 6 feet high. Flowers silver, odd. Seed old.

337630. *DOMBEYA* sp. Sterculiaceae.

Shrub to 6 feet high. Flowers small, white.

337631. *GARDENIA* sp. Rubiaceae.

Shrub to 3 feet high. Flowers white, very nice.

337632. *HOLARRHENA FEBRIFUGA* Klotzsch Apocynaceae.

Tree small. Flowers white, scented.

337633. *MONECHMA DEPAUPERATUM* C. B. Clarke Acanthaceae.

Perennial, herbaceous, to 18 inches high. Flowers white.

337634. *OTOMERIA ELATIOR* (A. Rich.) Verdcourt Rubiaceae.

Shrub, perennial, to 3 feet high. Flowers scarlet. Grows in damp places.

337635. *PENTAS NOBILIS* S. Moore Rubiaceae.

Shrub Flowers white. Drought resistant.

337636. *PSEUDERANTHEMUM TUNICATUM* (Afel.) Milne-Redhead
Acanthaceae.

To 18 inches high. Flowers purple. Needs shade.

337637. *PTEROCARPUS* sp. Leguminosae.

Tree. Flowers yellow.

337638. *STICTOCARDIA BERAVIENSIS* Hallier f. Convolvulaceae.

Climber. Flowers orange trumpet.

337639. *STICTOCARDIA* sp.

From Durban. Climbing. Flowers large, scarlet trumpet 2¼ in. diameter.

337640. *TYLOSEMA FASSOGLENSIS* (Kotschy) Torre & Hillc. Leguminosae.

Climbing *Bauhinia*. Flowers yellow, 3 inches diameter.

337641. Undetermined.

To 2 feet high. Flowers maroon; roots tuberous. Dry areas.

337642 to 337651. *TRITICUM AESTIVUM* L. Gramineae.

Common wheat.

From Afghanistan. Seed presented by the United States Operation Mission to Afghanistan, Kabul. Received Oct. 3, 1968.

337642. 'Alaulin'.

337645. 'Mouri'.

337643. 'Dendan Fil'.

337646. 'Padkhab Luger'.

337644. 'Melani White Paktu'.

337647. 'Rana Zeba'.

337642 to 337651—Continued

337648. 'Safidcha'.

337650. 'Surkhcha Pajhmani'.

337649. 'Surkhcha'.

337651. 'Surkhcha White Gcardis'.

337652. BROMUS BENEKENII (Lange) Trimen Gramineae.

From the United States. Plants grown at National Plant Materials Center, Soil Conservation Service, Beltsville, Md. Numbered Oct. 31, 1968.

Component of P.I. 251806. Originally from Italy.

337653 to 337666.

From Panama. Seed collected by A. J. Oakes, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Oct. 14, 1968.

United Nations Food and Agriculture Organization, Panama City. Samples originally from commercial sources in Australia, except as noted.

337653. *DESMODIUM UNCINATUM* (Jacq.) DC. Leguminosae.

Col. 780.

337654. *DOLICHOS AXILLARIS* E. Mey. Leguminosae.

Col. 774.

337655. *DOLICHOS LABLAB* L.

Hyacinth-bean.

Col. 776.

337656. *DOLICHOS UNIFLORUS* Lam.

Col. 779.

337657. *GLYCINE WIGHTII* (R. Grah. ex Wight & Arn.) Verdcourt Leguminosae.

Col. 775

337658. *LOTONONIS BAINESII* Baker Leguminosae.

Col. 777.

337659 to 337661. *PANICUM MAXIMUM* Jacq. Gramineae. Guineagrass.

337659. Col. 773. Local name Indiana. Collected along highway, 20 km. south of Panama City. Leaf height 1 to 2 m.; head height 3 m.

337660. Col. 784. 'Coloniao'.

337661. Col. 786.

337662. *PANICUM MAXIMUM* var. *TRICHOGLUME* Eyles Green panicgrass.

Col. 785.

337663. *PHASEOLUS ATROPURPUREUS* Moc. & Sesse ex DC. Leguminosae.

Col. 781.

337664. *SETARIA SPHACELATA* (Schum.) Stapf & Hubb. ex M. B. Moss Gramineae.

Col. 783. 'Kazunqala'.

337665. *STYLOSANTHES GUYANENSIS* (Aubl.) Swartz Leguminosae.

Col. 782. 'Stylo'.

337666. *STYLOSANTHES HUMILIS* HBK.

Col. 778.

337667 to 337690. SORGHUM BICOLOR (L.) Moench Gramineae.

From Ethiopia. Seed presented by College of Agriculture, Haile Selassie I University, Alemaya to K. O. Rachie, Rockefeller Foundation, New York, N. Y. Numbered Oct. 14, 1968.

1967 Advanced Observation Nursery.

337667 to 337690—Continued

337667. SAO Row No. 3.

337668. SAO Row No. 6.

337669. Col. R-358. Row No. 4. 'Eja Hara'. Dedesa Valley, Wollega Province.

337670. Col. R-359. Row No. 5. 'Aba Luchar'. Dedesa Valley, Wollega Province.

337671. Col. R-362. Row No. 55. Large, white head, crooked neck. Damota Valley, Sidamo Province.

337672. Col. R-364. Row No. 52. 'Maschanka'. Damota Valley, Sidamo Province.

1967 Alemaya-Debre Zeit Collection.

337673. Col. R-45. Row No. 51.

337674. Col. R-350. Row No. 102. Kobo, Harar Province.

337675. Col. R-354. Row No. 105. Arbereket, Harar Province.

337676. Col. R-418. Row No. 18. Kersa, Harar Province.

337677. Col. R-419. Row No. 19. Kersa, Harar Province.

337678. Col. R-425. Row No. 25. Asebe Teferi, Harar Province.

337679. Col. R-426. Row No. 26. Arbereket, Harar Province.

337680. Col. R-427. Row No. 27. Dengogo, Harar Province.

337681. Col. R-428. Row No. 28. Hirna, Harar Province.

337682. Col. R-436. Row No. 36. Kobo, Harar Province.

337683. Col. R-444. Row No. 44. Hirna, Harar Province.

337684. Col. R-447. Row No. 47. Debesso, Harar Province.

337685. Col. R-450. Row No. 50. Dengogo, Harar Province.

337686. Col. R-457. Row No. 57. Arbereket, Harar Province.

337687. Col. R-469. Row No. 69. Hirna, Harar Province.

337688. Col. R-470. Row No. 70. Kersa, Harar Province.

337689. Col. R-481. Row No. 81. Arbereket, Harar Province.

337690. Col. R-490. Row No. 90. Hirna, Harar Province.

337691 to 337693. SACCHARUM (hybrid) Gramineae. Sugarcane.

From Mexico. Cuttings presented by the Instituto para el Mejoramiento, Balderas. Received Oct. 14, 1968.

337691. Mex 56-139.

337692. Mex 58-1893.

337693. Mex 60-1459.

337694 to 337704.

From Ethiopia. Seed collected October-November 1967 by B. M. Leese, Crops Research Division, United States Department of Agriculture, Beltsville, Md., and K. O. Rachie, Rockefeller Foundation, New York, N. Y. Numbered Oct. 15, 1968.

337694 to 337703. SORGHUM BICOLOR (L.) Moench Gramineae.

337694. Col. 148-B. Seven kms. north of Robi, Shoa Province. Elevation 1,200 m. Leafy; glumes sienna.

337694 to 337704—Continued**337694 to 337703—Continued**

337695. Col. R-37. Gori, Illubabor Province. Elevation 1,974 m. Seed medium; mixed white pearly and light red pearly; excellent quality.

Tessenei, Societe Imprese Africane.

337696. Col. R-116A. Local name Adamayu. Head medium short, very compact, globose to obovate, clustered; glumes short, purple and tan; seed medium, semiglobose. Durra type.

337697. Col. R-141. Head medium, compact to very compact, cylindrical to lanceolate, clustered; glumes short, mahogany; seed medium, reddish yellow, semiglobose. Durra type.

337698. Col. R-142. Head long and large, compact, cylindrical, semi-clustered; glumes medium, mahogany and tan; seed medium large, yellow, semiglobose. Durra type.

337699. Col. R-143. Head medium small, very compact, ovate, clustered; glumes short, purple; seed medium long to medium, awns white, semiglobose. Durra type.

337700. Col. R-144. Head medium, very compact to compact, short-cylindrical, clustered; glumes medium small, sienna and tan; seed medium small, reddish yellow, globose. Durra type.

337701. Col. R-145. Local name Mugud. Head large, very compact to compact, obovate, clustered; glumes short, mahogany; seed large, reddish yellow. Durra type.

337702. Col. R-187. Local name Wad'Akr. Homera Region. Head large, semicompact, cylindrical to lanceolate, clustered; glumes medium short, dark purple; seed medium large, white, turtleback.

337703. Col. R-440. Head ovate, seed clustered, semicompact, 18 cm. long; glumes $\frac{1}{2}$ of seed, brown, short awns; seed medium small, broadly ovate, reddish light brown.

337704. TRITICUM AESTIVUM L. Gramineae. Common wheat.

Col. R-67. Market, Debre Berhain, Shoa Province. Purple pigmented seed with slight mixture of normal red.

337705 to 337713. TRITICUM AESTIVUM L. Gramineae. Common wheat.

From Colombia. Seed presented by Mario Zapata B., Instituto Colombiano Agropecuario, Bogota. Numbered Oct. 15, 1968.

337705. 'Bonza 63'. **337710.** 'Miramar 63'.

337706. 'Crespo 63'. **337711.** 'Napo 63'.

337707. 'ICA-Samaca 68'. **337712.** 'Tiba 63'.

337708. 'ICA-Sugamuxi 68'. **337713.** 'Tota 63'.

337709. 'ICA-Zipa 68'.

337714. IPOMOEA BATATAS (L.) Lam. Convolvulaceae. Sweetpotato.

From the United States. Plants propagated by R. P. Kahn, Plant Quarantine Division, United States Plant Introduction Station, Glenn Dale, Md. Numbered Oct. 18, 1968.

Virus free normal size plants produced from P.I. 308200 by heat therapy and tip propagation.

337715 to 337717.

From the Netherlands. Seed presented by A. C. Zeven, Institute of Plant Breeding, Wageningen. Received Oct. 21, 1968.

337715 to 337717—Continued

337715 and 337716. AVENA SATIVA L. Gramineae. Common oats.

337715. 'Major'.

337716. 'Marino'.

337717. HORDEUM VULGARE L. Gramineae.

'Urania'.

337718. PHALARIS ARUNDINACEA L. Gramineae.

Reed canarygrass.

From the United States. Seed grown at National Plant Materials Center, Soil Conservation Service, Beltsville, Md. Numbered Oct. 21, 1968.

Contaminant of P.I. 314103. Originally from Soviet Union.

337719. ERAGROSTIS CURVULA (Schrad.) Ness Gramineae.

Weeping lovegrass.

From the United States. Plants grown at National Plant Materials Center, Soil Conservation Service, Los Lunas, N. M. Numbered Oct. 21, 1968.

Component of P.I. 276033. Origin South Africa.

337720 to 337722. FRAGARIA (hybrid). Rosaceae.

From Sweden. Plants presented by the Balsgard Fruit Breeding Institute, Kristianstad. Received Oct. 21, 1968.

337720. 'Kristina'.

337721. F 2615.

337722. F 2617.

337723. SCHIMA SUPERBA Gard. & Champ. Theaceae.

From Hong Kong. Seed presented by the Department of Botany, University of Hong Kong. Received Oct. 22, 1968.

337724 to 337987.

From Canada. Seed presented by Central Experimental Farm, Canada Department of Agriculture, Ottawa. Numbered Oct. 22, 1968.

337724 to 337773. AVENA BARBATA Pott ex Link Gramineae. Slender oats.

From Turkey.

337724. CW 62-4. Sixty-eight km. south of Izmir.

337725. CW 72-4. Kemalpasha.

337726. CW 89-4. Halfway between Klaraovo and Bodrum.

From Greece.

337727. CW 99-4. Athens Akropolis, Attica.

337728. CW 103-4. Thirty km. east of Cornith, Attica.

337729. CW 109-4. Keratea, Attica.

337730. CW 120-4. Edessa, Macedonia-Thrace.

337731. CW 122-4. Naousa, Macedonia-Thrace.

337732. CW 123-4. Iraklion, Crete.

337733. CW 124-4. South of Iraklion, Crete.

337734. CW 125-4. Ten km. south of Iraklion, Crete.

337735. CW 130-4. Pirgos, Crete.

337724 to 337987—Continued**337724 to 337773—Continued**

337736. CW 131-4. Five km. north of Timbaki, Crete.

From Italy.

337737. CW 157-4. Six km. southeast of Bari.

337738. CW 163-4. Ten km. northeast of Taranto.

337739. CW 169-4. Gioia.

337740. CW 185-4. Rome—Old Via Appia.

From Sicily.

337741. CW 188-4. Capaci.

337742. CW 197-4. Cammarata.

337743. CW 204-4. Twenty km. east of Agrigento.

337744. CW 208-4. Seventeen km. east of Gela.

337745. CW 215-4. Francofonte.

337746. CW 224-4. Mt. Etna base.

From Libya.

337747. CW 240-4. Fuehat, Cyrenaica.

337748. CW 243-4. Al Guarsha, Cyrenaica.

337749. CW 250-4. Tika, Cyrenaica.

337750. CW 254-4. Abdul Atti, Cyrenaica.

337751. CW 268-4. Farzaugha, Cyrenaica.

337752. CW 281-4. Tammima, Tripolitania.

337753. CW 285-4. Tarhuna, Tripolitania.

337754. CW 288-4. Al-Rgiaiat, Tripolitania.

From Tunisia.

337755. CW 293-4. Mateur.

From Sardinia.

337756. CW 294-4. Sixteen km. southwest of Cagliari.

337757. CW 300-4. Monastir.

337758. CW 307-4. Northeast of Oristano.

337759. CW 315-4. Twenty-three km. west of Olbia.

From Corsica.

337760. CW 317-4. Just west of Ajaccio.

337761. CW 322-4. Casamozza.

337762. CW 324-4. Santo Pietro di Tenua.

337763. CW 325-4. St. Storunt.

From Algeria.

337764. CW 327-4. Misserghin.

337765. CW 332-4. Bouisville.

337766. CW 334-4. Ain El Turk.

337767. CW 339-4. Bou-Ster.

337768. CW 343-4. Kristel.

337769. CW 347-4. Sassel.

337724 to 337987—Continued**337724 to 337773—Continued**

337770. CW 350-4. Three km. east of Oran, Sassel.
 337771. CW 351-4. West of Sidi Bel Abbes.
 337772. CW 359-4. Tangier, Morocco.
 337773. CW 362-4. On the Rock, Gibraltar.

337774 to 337799. AVENA HIRTULA Lag.

From Turkey

337774. CW 64-2. Ephesos.
 337775. CW 70-2. Two km. below peak, Ephesos.
 337776. CW 86-2. Forty-five km. south of Soke at ruins.
 337777. CW 87-2. Soke-Greek/Roman ruins.
 337778. CW 91-2. Eight km. west of Bodrum.
 337779. CW 92-2. Karaova.
 337780. CW 94-2. Mugla-Aydin, near Milas.
 337781. CW 95-2. Aydin.

From Greece.

337782. CW 127-2. Pirgos, Crete.
 337783. CW 128-2. Pirgos, Crete.
 337784. CW 130-2. Pirgos, Crete.
 337785. CW 131-2. Five km. north of Timbaki, Crete.
 337786. CW 137-2. Fifteen km. south of Aghios Nikilaos, Crete.
 337787. CW 150-2. Eighteen km. east of Rethimnon, Crete.
 337788. CW 151-2. Alexandrou, Crete.
 337789. CW 155-2. Iraklion Port, Crete.

From Sicily.

337790. CW 232-2. Calatobiono.
 337791. CW 233-2. Calatobiono.

From Libya.

337792. CW 260-2. Solluk, Cyrenaica.
 337793. CW 288-2. Al-Rgaiaat, Tripolitania.

From Sardinia.

337794. CW 302-2. Five km. north of Uras.

From Morocco.

337795. CW 352-2. Fifteen km. south of Tiflet.
 337796. CW 353-2. Oulmes.
 337797. CW 355-2. Twenty-five km. west of Oulmes.
 337798. CW 357-2. Atlas Mt.
 337799. CW 363-2. Madrid, Spain.

337800 to 337987. AVENA sp.

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|----------------|----------------|
| 337800. CW 65. | 337802. CW 69. |
| 337801. CW 66. | 337803. CW 71. |

337724 to 337987—Continued

337800 to 337987—Continued

337804. CW 75.	337845. CW 156.
337805. CW 76.	337846. CW 158.
337806. CW 77.	337847. CW 159.
337807. CW 78.	337848. CW 160.
337808. CW 79.	337849. CW 161.
337809. CW 80.	337850. CW 162.
337810. CW 81.	337851. CW 164.
337811. CW 82.	337852. CW 165.
337812. CW 83.	337853. CW 166.
337813. CW 84.	337854. CW 167.
337814. CW 85.	337855. CW 168.
337815. CW 88.	337856. CW 170.
337816. CW 90.	337857. CW 171.
337817. CW 96.	337858. CW 172.
337818. CW 97.	337859. CW 173.
337819. CW 100.	337860. CW 174.
337820. CW 101.	337861. CW 175.
337821. CW 102.	337862. CW 176.
337822. CW 104.	337863. CW 177.
337823. CW 105.	337864. CW 178.
337824. CW 106.	337865. CW 179.
337825. CW 107.	337866. CW 184.
337826. CW 108.	337867. CW 186.
337827. CW 110.	337868. CW 187.
337828. CW 111.	337869. CW 189.
337829. CW 118.	337870. CW 190.
337830. CW 119.	337871. CW 191.
337831. CW 121.	337872. CW 192.
337832. CW 133.	337873. CW 193.
337833. CW 134.	337874. CW 194.
337834. CW 135.	337875. CW 195.
337835. CW 136.	337876. CW 196.
337836. CW 138.	337877. CW 198.
337837. CW 140.	337878. CW 199.
337838. CW 144.	337879. CW 200.
337839. CW 145.	337880. CW 201.
337840. CW 147.	337881. CW 202.
337841. CW 149.	337882. CW 203.
337842. CW 152.	337883. CW 205.
337843. CW 153.	337884. CW 206.
337844. CW 154.	337885. CW 207.

337724 to 337987—Continued

337800 to 337987—Continued

337886.	CW 209.	337927.	CW 266.
337887.	CW 211.	337928.	CW 267.
337888.	CW 212.	337929.	CW 269.
337889.	CW 214.	337930.	CW 270.
337890.	CW 216.	337931.	CW 271.
337891.	CW 217.	337932.	CW 272.
337892.	CW 218.	337933.	CW 273.
337893.	CW 219.	337934.	CW 274.
337894.	CW 220.	337935.	CW 275.
337895.	CW 221.	337936.	CW 276.
337896.	CW 222.	337937.	CW 279.
337897.	CW 223.	337938.	CW 280.
337898.	CW 225.	337939.	CW 282.
337899.	CW 226.	337940.	CW 283.
337900.	CW 227.	337941.	CW 284.
337901.	CW 229.	337942.	CW 286.
337902.	CW 230.	337943.	CW 287.
337903.	CW 231.	337944.	CW 289.
337904.	CW 234.	337945.	CW 292.
337905.	CW 235.	337946.	CW 295.
337906.	CW 236.	337947.	CW 296.
337907.	CW 237.	337948.	CW 297.
337908.	CW 238.	337949.	CW 298.
337909.	CW 239.	337950.	CW 299.
337910.	CW 241.	337951.	CW 301.
337911.	CW 242.	337952.	CW 303.
337912.	CW 244.	337953.	CW 305.
337913.	CW 245.	337954.	CW 306.
337914.	CW 247.	337955.	CW 308.
337915.	CW 248.	337956.	CW 309.
337916.	CW 249.	337957.	CW 310.
337917.	CW 251.	337958.	CW 311.
337918.	CW 252.	337959.	CW 312.
337919.	CW 253.	337960.	CW 313.
337920.	CW 255.	337961.	CW 314A.
337921.	CW 256.	337962.	CW 316.
337922.	CW 258.	337963.	CW 318.
337923.	CW 259.	337964.	CW 319.
337924.	CW 263.	337965.	CW 320.
337925.	CW 264.	337966.	CW 321.
337926.	CW 265.	337967.	CW 323.

337724 to 337987—Continued**337800 to 337987—Continued**

337968. CW 326.	337978. CW 341.
337969. CW 328.	337979. CW 342.
337970. CW 329.	337980. CW 344.
337971. CW 330.	337981. CW 345.
337972. CW 331.	337982. CW 346.
337973. CW 335.	337983. CW 348.
337974. CW 336.	337984. CW 349.
337975. CW 337.	337985. CW 356.
337976. CW 338.	337986. CW 360.
337977. CW 340.	337987. CW 361.

337988. TRITICUM AESTIVUM L. Gramineae. Common wheat.

From Japan. Seed presented by the Wheat Breeding Laboratory, Hokkaido National Agricultural Experiment Station, Hitzujigaoka, Sapporo, Hokkaido. Received Oct. 24, 1968.

'Hokuet'.

337989 to 337992. SACCHARUM (hybrid) Gramineae. Sugarcane.

From Barbados. Cuttings presented by the West Indies Central Sugar Cane Breeding Station, Coves, St. George. Received Oct. 24, 1968.

337989. B4145.	337991. B50135.
337990. B6130.	337992. B55228.

337993 to 337995. SACCHARUM (hybrid) Gramineae. Sugarcane.

From Guyana. Cuttings presented by the Bookers Sugar Estates Ltd., Georgetown. Received Oct. 28, 1968.

337993. D 141/48.
337994. D 151/59.
337995. D 171/59.

337996. CRAMBE HISPANICA Linn. Cruciferae.

From Israel. Seeds presented by the National and University Institute of Agriculture, Rehovot, Jerusalem. Received Sept. 30, 1968. Numbered Oct. 28, 1968.

No. NU43030. Plant small, poor seeder.

337997. TRITICUM SPHAEROCOCCUM Percival Gramineae.

From India. Seed presented by the Division of Plant Introduction, Indian Agricultural Research Institute, New Delhi. Received Oct. 28, 1968.

337998. TRITICUM AESTIVUM L. Gramineae. Common wheat.

From Italy. Seed presented by the Federazione Italiana dei Consorzi Agrari, Ponte Galeria, Rome. Received Oct. 28, 1968.

'Strampelli'.

337999 to 338000. PENNISETUM SPICATUM (L.) Willd. Gramineae. Pearl millet.

From Ethiopia. Seed collected by B. M. Leese, Crops Research Division, United States Department of Agriculture, Beltsville, Md. Numbered Oct. 14, 1968.

337999 to 338000—Continued

337999. Col. 31-B. On road to Alamyra, 215 km. east of Nazareth, Shoa Province. Elevation 1,600 m. Bristle obscure.

338000. Col. P-156. Local name Biltob. One hundred four km. west of Asmara, Eritrea Province. Seed yellow.

338001 to 338003. SACCHARUM (hybrid) Gramineae.**Sugarcane.**

From Australia. Cuttings presented by the Bureau of Sugar Experiment Stations, Brisbane, Queensland. Received Oct. 31, 1968.

338001. Q. 86.

338002. Q. 87.

338003. Q. 88.

338004 to 338008. SACCHARUM (hybrid) Gramineae.**Sugarcane.**

From Fiji. Cuttings presented by the South Pacific Sugar Mills Ltd., Lautoka. Received Oct. 31, 1968.

338004. 'Fiji 61'. — 338007. 'Vomo'.

338005. 'Fiji 73'. — 338008. 'Way'a'.

338006. 'Mali'.

338009 to 338011. TRITICUM AESTIVUM L. Gramineae.**Common wheat.**

From the Netherlands. Seeds presented by the Institute of Plant Breeding, Wageningen. Received Oct. 15, 1968. Numbered Nov. 1, 1968.

338009. 'Joss Cambier'.

338010. 'Sylvia'.

338011. 'Tadorna'.

338012. ORYZA SATIVA L. Gramineae.**Rice.**

From the Philippines. Seed presented by the International Rice Research Institute, Los Banos, Laguna. Received Nov. 5, 1968.

'Hokuriku 76'.

338013 to 338169. ORYZA SATIVA L. Gramineae.**Rice.**

From the Philippines. Seed presented by the International Rice Research Institute, Manila. Received Nov. 6, 1968.

338013. 41185. IR798-27-3, Ch. 242 x (Siam 29 - Kh. 68).

338014. 41161. IR798-15-1, Ch. 242 x (Siam 29 x Kh. 68).

338015. 41458. IR666-1-25-2-2, IR8 x Yukara.

338016. 41482. IR667-1-12-1-3, IR8 x (Yukara x TN1).

338017. 41508. IR667-1-34-2-1, IR8 x (Yukara x TN1).

338018. 41552. IR667-1-58-3-1, IR8 x (Yukara x TN1).

338019. 41566. IR667-1-63-1-2, IR8 x (Yukara x TN1).

338020. 41635. IR781-417-2, IR8/2 x (Yukara x TN1).

338021. 41741. IR781-460-3, IR8/2 x (Yukara x TN1).

338022. 41812. IR781-498-2, IR8/2 x (Yukara x TN1).

338023. 41928. IR781-587, IR8/2 x (Yukara x TN1).

338024. 42101. IR934-56, IR8-3 x (Yukara x TN1).

338013 to 338169—Continued

338025. 42283. IR934-229, IR8/3 x (Yukara x TN1).
 338026. 42406. IR934-346, IR8/3 x (Yukara x TN1).
 338027. 42456. IR934-394, IR8/3 x (Yukara x TN1).
 338028. 42464. IR934-401, IR8/3 x (Yukara x TN1).
 338029. 42605. IR934-535, IR8/3 x (Yukara x TN1).
 338030. 42722. IR497-24-1-2-3, (CP-SLO/2 x TN1) x Nato.
 338031. 42724. IR497-24-2-1-2, (CP-SLO/2 x TN1) x Nato.
 338032. 42735. IR497-52-1-2-1, (CP-SLO/2 x TN1) x Nato.
 338033. 42743. IR497-81-3-3-2, (CP-SLO/2 x TN1) x Nato.
 338034. 42746. IR497-84-3-1-2, (CP-SLO/2 x TN1) x Nato.
 338035. 42782. IR498-15-2-3-3, (CP-SLO/2 x TN1) x Zenith.
 338036. 42796. IR498-42-1-2-2, (CP-SLO/2 x TN1) x Zenith.
 338037. 42798. IR498-42-1-3-1, (CP-SLO/2 x TN1) x Zenith.
 338038. 42909. IR1061-41, IR400-28-4-5/2 x Sel. from C.I. 9210.
 338039. 43076. IR532-1-65-3-2, (Peta/3 x TN1) x TKM-6.
 338040. 43083. IR532-1-79-2-2, (Peta/3 x TN1) x TKM-6.
 338041. 43116. IR532-1-128-3-1, (Peta/3 x TN1) x TKM-6.
 338042. 43135. IR532-1-155-1-1, (Peta/3 x TN1) x TKM-6.
 338043. 43190. IR532-1-218-1-2, (Peta/3 x TN1) x TKM-6.
 338044. 43214. IR536-11-2-2-1, (CP-SLO/2 x 81B-25) x TKM-6.
 338045. 43255. IR506-101-6-2-1, IR8 x (B589A4-18-1/2 x TN1).
 338046. 43347. IR644-1-63-1-1, IR8/2 x (B589A4-18-1/2 x TN1).
 338047. 43467. IR533-8-2-2-2, (CP-SLO/2 x Sigadis) x (Peta x TN1).
 338048. 43473. IR533-1-21-3-2, (CP-SLO/2 x Sigadis) x (Peta x TN1).
 338049. 43792. IR943-6, (TN1 x Malagkit Sungsung) x Peta.
 338050. 43805. IR943-18, (TN1 x Malagkit Sungsung) x Peta.
 338051. 43880. IR12-178-2-3, MCVA x I-geo-tze.
 338052. 43967. IR626-1-28-2-2, IR8 x (Peta/5 x Belle Patna).
 338053. 43973. IR626-1-36-32-2, IR8 x (Peta/5 x Belle Patna).
 338054. 44169. IR626-40-2, IR8 x (Peta/5 x Belle Patna).
 338055. 44221. IR665-1-60-1-3, IR8 x (Peta/5 x Belle Patna).
 338056. 44331. IR627-1-5-1-1, IR8 x Wagwag.
 338057. 44556. IR628-1-20-2-3, IR8 x Chinkachen.
 338058. 44928. IR633-1-9-3-2, IR8 x (BPI-76 x T. 176).
 338059. 44951. IR753-184, IR8-18-/2 x (BPI-76 x T. 176).
 338060. 44942. IR753-175, IR8/2 x (BPI-76 x T. 176).
 338061. 44998. IR634-1-1-3-3, IR8 x (CP-SLO x L. Yai 34).
 338062. 45061. IR758-71, IR8/2 x Dawn.
 338063. 45065. IR758-75, IR8/2 x Dawn.
 338064. 45283. IR782-98-4, IR8 x (Dawn x TN1).
 338065. 45325. IR782-131, IR8 x (Dawn x TN1).
 338066. 45375. IR759-62, IR8 x (Peta/3 x Dawn).

338013 to 338169—Continued

338067. 45484. IR759-165, IR8 x (Peta/3 x Dawn).
 338068. 45494. IR879-1, IR8/2 x (Peta/3 x Dawn).
 338069. 45522. IR879-28, IR8/2 x (Peta/3 x Dawn).
 338070. 45698. IR643-65-2, IR8 x (Dawn x 81B-25).
 338071. 45753. IR643-1-28-2-3, IR8 x (Dawn x 81B-25).
 338072. 45771. IR643-1-50-2-2, IR8 x (Dawn x 81B-25).
 338073. 46016. IR786-27-3, IR8 x (IR172-2-2 x IR84-82-3).
 338074. 46024. IR786-30-2, IR8 x (IR172-2-2 x IR84-82-3).
 338075. 46057. IR786-57-3, IR8 x (IR172-2-2 x IR84-82-3).
 338076. 46091. IR786-79-2, IR8 x (IR172-2-2 x IR84-82-3).
 338077. 46096. IR786-84-1, IR8 x (IR172-2-2 c IR84-82-3).
 338078. 46150. IR787-5-3, IR8 x (CP 231 x SLO-17).
 338079. 46159. IR787-13-3, IR8 x (CP 231 x SLO-17).
 338080. 46216. IR787-57-3, IR8 x (CP 231 x SLO-17).
 338081. 46235. IR787-66-3, IR8 x (CP 231 x SLO-17).
 338082. 46267. IR787-98-3, IR8 x (CP 231 x SLO-17).
 338083. 46300. CP 231 x SLO-17.
 338084. 46357. IR1008-74, IR8 x IR154-61-1-1.
 338085. 46380. IR8 (68).
 338086. 46397. IR939-38, IR8 x IR272-8-8-3.
 338087. 46530. IR1044-2, IR154-54-2-2- x IR400-28-4-5.
 338088. 46533. IR1044-5, IR154-54-2-2 x IR400-28-4-5.
 338089. 46536. IR1044-8, IR154-54-2-2 x IR400-28-4-5.
 338090. 46538. IR1044-10, IR154-54-2-2 x IR400-28-4-5.
 338091. 46544. IR1044-15, IR154-54-2-2 x IR400-28-4-5.
 338092. 46576. IR1044-46, IR154-54-2-2 x IR400-28-4-5.
 338093. 46587. IR1044-56, IR154-54-2-2 x IR400-28-4-5.
 338094. 46602. IR1044-70, IR154-54-2-2 x IR400-28-4-5.
 338095. 46611. IR1044-79, IR154-54-2-2 x IR400-28-4-5.
 338096. 46683. IR790-10-1, (IR400-5-12-10-2 x IR8) x [IR4-253-3
 (B589A4-18-1/2 x TN1)].
 338097. 46770. IR790-48-3, (IR400-5-12-10-2 x IR8) x IR4-253-3 x
 (B589A4-18-1/2 x TN1)].
 338098. 46835. IR795-4-2, IR262-43-8-11 x (Siam 29 x T. 172).
 338099. 46857. IR795-10-2, IR262-43-8-11 x (Siam 29 x T. 172).
 338100. 46927. IR609-1-47-2-2, TN1 x Kalijira Aman.
 338101. 47476. IR822-228-3, IR8/2 x Pankhari 203.
 338102. 47501. IR822-241-2, IR8/2 x Pankhari 203.
 338103. 47561. IR822-260-8, IR8/2 x Pankhari 203.
 338104. 47566. IR822-261-3, IR8/2 x Pankhari 203.
 338105. 47598. IR822-272-3, IR8/2 x Pankhari 203.
 338106. 47783. IR822-377-6, IR8/2 x Pankhari 203.
 338107. 9314. IR532-1-47, (Peta/3 x TN1) x TKM-6.

338013 to 338169—Continued

338108. 623. IR532-E-527, (Peta/3 x TN1) x TKM-6.
 338109. 609. IR532-1-151, (Peta/3 x TN1) x TKM-6.
 338110. 610. IR532-1-171, (Peta/3 x TN1) x TKM-6.
 338111. 611. IR532-1-218, (Peta/3 x TN1) x TKM-6.
 338112. 26041. IR527-1-10-3, TN1 x ADT-27.
 338113. 6802. Ch. 242.
 338114. 6803. Tainan 3.
 338115. 6805. IR509-1-3-2-3, Ch. 242/2 x FF-36.
 338116. 6812. IR510-11-3, FF-36 x B583A1-4-2.
 338117. 6816. IR667-1-43-1, IR8 x (Yukara x TN1).
 338118. 6826. IR497-9-1, (CP-SLO/2 x TN1) x Nato.
 338119. 6828. IR498-12-1-3, (CP-SLO/2 x TN1) x Zenith.
 338120. 6832. IR498-42-3-3, (CP-SLO/2 x TN1) x Zenith.
 338121. 6837. IR494-1-17, (Bluebelle/3 x TN1) x Zenith.
 338122. 6839. IR532-1-218, (Peta/3 x TN1) x TKM-6.
 338123. 6841. IR527-1-57-2, TN1 x ADT-27.
 338124. 6853. IR527-40, TN1 x ADT-27.
 338125. 6862. IR528-1-57, (Peta/3 x TN1) x ADT-27.
 338126. 6874. IR502-2-2, (L. Yai 34 x TN1) x B583A1-4-2.
 338127. 6889. IR548-9-1-3, Belle Patna x TN1.
 338128. 6895. IR547-36-2-3, TN1 x Dawn.
 338129. 6896. IR547-52-1-2, TN1 x Dawn.
 338130. 6901. IR547-177-1-2, TN1 x B505A1-28.
 338131. 6920. IR533-6-1-2, (CP-SLO/2 x Sigadis) x (Peta/3 x TN1).
 338132. 6923. IR533-8-2-3, (CP-SLO/2 x Sigadis) x (Peta/3 x TN1).
 338133. 6935. IR537-6-6-2, (CP-SLO/2 x 81B-25) x (Peta/3 x TN1).
 338134. 6955. IR503-1-103-3, (Peta/3 x TN1) x (B589A4-18-1/2
 x TN1).
 338135. 7006. IR644-1-63, IR8/2 x (B589A4-18-1/2 x TN1).
 338136. 7024. IR626-1-7-2, IR8 (Peta/5 x Belle Patna).
 338137. 7025. IR626-1-28-2, IR8 (Peta/5 x Belle Patna).
 338138. 7032. IR626-1-95-2, IR8 (Peta/5 x Belle Patna).
 338139. 7034. IR626-1-110-2, IR8 (Peta/5 x Belle Patna).
 338140. 7037. IR626-1-128-1, IR8 (Peta/5 x Belle Patna).
 338141. 7044. IR665-1-143-3, IR8 x (Peta/5 x Belle Patna).
 338142. 7047. IR305-2-4-2-1, Sigadis/2 x TN1.
 338143. 7063. IR488-2-12, Sigadis/3 x TN1.
 338144. 7065. IR578-166-5, IR8 x Short Sigadis.
 338145. 7128. IR580-E-452-248, IR8 x TKM-6.
 338146. 7082. IR643-48, IR8 x (81B-25 x B505A1-28).
 338147. 7111. IR400-5-12-10-2, Peta/4 x TN1.
 338148. 7133. IR580-E-462-325, IR8 x TKM-6.

338013 to 338169—Continued

338149. 7135. IR580-E-462-329, IR8 x TKM-6.
 338150. 7140. IR580-E-467-354, IR8 x TKM-6.
 338151. 7145. IR580-E-470-376, IR8 x TKM-6.
 338152. 7146. IR580-E-472-378, IR8 x TKM-6.
 338153. 7149. IR580-E-475-399, IR8 x TKM-6.
 338154. 7155. IR532-1-10-2, (Peta/3 x TN1) x TKM-6.
 338155. 7161. IR532-1-18, (Peta/3 x TN1) x TKM-6.
 338156. 7165. IR532-1-32-2, (Peta/3 x TN1) x TKM-6.
 338157. 7166. IR532-1-33-1, (Peta/3 x TN1) x TKM-6.
 338158. 7184. IR532-1-88-3, (Peta/3 x TN1) x TKM-6.
 338159. 7191. IR532-1-128-3, (Peta/3 x TN1) x TKM-6.
 338160. 7206. IR532-1-222-3, (Peta/3 x TN1) x TKM-6.
 338161. 7208. IR532-1-226-3, (Peta/3 x TN1) x TKM-6.
 338162. 7228. IR140-136-2-3-1-2, (CP 231 x SLO-17) x Mas.
 338163. 7241. IR278-2-9-1-1, B581A6-545/2 x 81B-25.
 338164. 7243. IR178-106-3-1-1-3, B505A1-28 x 31B-25.
 338165. 7252. IR127-80-1-10, (CP 231 x SLO-17) x Sigadis.
 338166. 7253. IR127-80-3-6-1, (CP 231 x SLO-17) x Sigadis.
 338167. 7269. IR117-21-2-1-1-1-2, B581A6-545 x BPI-76.
 338168. 7287. IR281-7-3-2-1, CI 9300/2 x (CP 231 x SLO-17).
 338169. 7306. IR271-22-16-5-2-2-1, B505A1-28/2 x Sigadis.

338170 to 338179. PRUNUS ARMENIACA L. Rosaceae. Apricot.

From Italy. Seed presented by the Instituto di Frutticoltura, Rome. Received Nov. 6, 1968.

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|------------------------|--------------------------|
| 338170. 'Baracca'. | 338175. 'Hatif-Colomer'. |
| 338171. 'Boccuccia'. | 338176. 'Meraviglia'. |
| 338172. 'Cafona'. | 338177. 'Pelacchiella'. |
| 338173. 'Cannetta'. | 338178. 'Prete'. |
| 338174. 'Don-Gaetano'. | 338179. 'Siletina'. |

338180 to 339182. GLYCINE MAX (L.) Merr. Leguminosae.**Soybean.**

From El Salvador. Seeds presented by Dirección General de Investigaciones Agronomicas, Santa Teola. Originally from Agricultural Department, Honiara, Guadalcanal, British Solomon Protectorate. Received Nov. 8, 1968.

338180. 5/HLS/223/1/66.
 338181. 9/HLS/273/3/66.
 338182. 10/HER/3/66.

338183 to 338193. GOSSYPIUM (hybrid). Malvaceae.

From Argentina. Seeds presented by Instituto Nacional de Tecnología Agropecuaria, Buenos Aires. Received Sept. 23, 1968. Numbered Nov. 8, 1968.

338183. No. 5105-2. SP 5122 (CB 173: Mariu Caaguy x Pima S-2) Pima S-2.

338183 to 338193—Continued

338184. No. 5114-5. SP 5122 (CB 173: Mariu Caaguy x Pima S-2) Pima S-2.
338185. No. 5157-3. SP 5142 (CB 155: Concepcion x Stoneville 7A) Pima S-2.
338186. No. 5171-1. SP 5151 (Guaraní XI Pima S-2) Coastland RN 10.
338187. No. 5181-5. SP 5134 (Guaraní XII x Coastland RN 10) Pima S-2.
338188. No. 5185-3. SP 5135 (Guaraní XII x Coastland RN 10) Coastland RN 10.
338189. No. 5189-7. SP 5132 (Coastland RN 10 x Diaguíta VII) Pima S-2.
338190. No. 5192-3. SP 5138 (CB 159: Concepcion x Pima S-2) Pima S-2.
338191. No. 130-1. SP 1018 (CB 173: Mariu Caaguy x Pima S-2) Pima S-2.
338192. No. 140-2. SP 1018 (CB 173: Mariu Caaguy x Pima S-2) Pima S-2.
338193. No. 4243-3. SP 1018 (CB 173: Mariu Caaguy x Pima S-2).

338194. MEDICAGO SATIVA L. Leguminosae. Alfalfa.

From Australia. Seed presented by Division of Plant Industry, Commonwealth Scientific and Industrial Research Organization, Canberra, A.C.T. Received Nov. 8, 1968.

'Cancreep'.

338195 to 338200. SORGHUM BICOLOR (L.) Moench Gramineae.

From Venezuela. Seed collected by Mauricio Riccelli, Universidad Central de Venezuela, Facultad de Agronomía, Instituto de Genética, Maracay-Edo, Aragua. Received Nov. 8, 1968.

Falcon State.

338195. 'State'.

338197. 'Millo Trigo'.

338196. 'Mano de Tigre'.

338198. 'Yucatan'.

Zulia State.

338199. 'Guana Amarillo'.

338200. 'Guana Blanco'.

338201 and 338202.

From Poland. Seed presented by Research Institute of Pomology, Skierniewice. Received Nov. 8, 1968.

338201. PRUNUS MANDSHURICA (Maxim.) Koehne Rosaceae.
Manchurian apricot.

338202. PRUNUS PERSICA (L.) Batsch Peach.
'Blue Skin'.

338203. AVENA SATIVA L. Gramineae. Common oats.

From Wales. Seed presented by Welsh Plant Breeding Station, University College of Wales, Plas Gogerddan. Received Nov. 8, 1968.

'Pendwrwm'. 5687 Cn 3/7/31.

338204 to 338217. LINUM USITATISSIMUM L. Linaceae.

Common flax.

From Australia. Seeds presented by P. H. Debrett, State Research Farm, Werribee, Victoria. Received Nov. 8, 1968.

338204 to 338217—Continued

338204. W5531NH-EG-1. (Bison x Walsh x Crystal) x L. Crep x C.P. 483 x CP1193 x Walsh.

Bison x Walsh x Crystal x Uruguay.

338205. W55650K-6.

338206. W55650KC-64-93.

338207. W5577QN-855. Bonnydoon x Tunis.

(Lin de Tunis x Bonnydoon) x Beladi Y6903.

338208. W5618RO-41.

338209. W5618RO-75.

338210. W5618RO-92.

338211. W5618RO-140.

338212. W5618RO-142.

338213. W5623RO-24. C.P.I. 26957 x Bonnydoon.

338214. W5658QN-18. (Bison x Walsh x Crystal x Uruguay) x Bonnydoon (White).

338215. W5659QN-70. W5565OK x Bonnydoon (Blue).

338216. Linseed Seln 27-53. Beladi Seln.

338217. H39-9. Bonnydoon-9.

338218. GOSSYPIUM HIRSUTUM L. Malvaceae.

From Greece. Seed presented by N. Kontos, Cotton Research Institute, Sindos. Received Sept. 30, 1968. Numbered Nov. 12, 1968.

Selection 4S.

338219. DATURA METEL L. Solanaceae. Hindu datura.

From Taiwan. Seed collected by T. C. Huang, Botany Department National Taiwan University, Taipei. Received Nov. 12, 1968.

Col. 4699. Oluanpi, Pingtung County. Along pathway, sandy soil. Cultivated.

338220 and 338221. BRACHIARIA RUZIZIENSIS Germain & Eyrard. Gramineae.

From Costa Rica. Stolons collected by A. J. Oakes, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Nov. 13, 1968.

IICA plots, Turrialba, Costa Rica.

338220. Col. 836. No. 64,144. Plants erect from seeding. Heavy seed production. Ex. Kenya, K 55253, 69D.

338221. Col. 837. No. 64,146. Plants erect from seeding. Ex. Kenya, K5832.

338222 to 338224. SACCHARUM (hybrid) Gramineae. Sugarcane.

From Peru. Cuttings presented by Negociacion Avucarera Laredo, Lima. Received Nov. 13, 1968.

338222. 'Lar. 58-4303'.

338223. 'Lar. 60-910'.

338224. 'Lar. 62-3626'.

338225. BRACHIARIA RUZIZIENSIS Germain & Eyrard. Gramineae.

From Costa Rica. Cuttings collected by A. J. Oakes, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Nov. 14, 1968.

Col. 835. IICA plots, Turrialba, Costa Rica. No. 64,143. Good seed production. Decumbent from seeding. Ex. Kenya K 55253. 69C.

338226 to 338332.

From Rhodesia. Seeds presented by the Curator, Botanic Garden, Causeway, Salisbury. Received Sept. 28, 1968. Numbered Nov. 14, 1968.

338226. ALBIZZIA BREVIFOLIA Schins Leguminosae.

338227. ALBIZZIA FORBESII Benth.

338228. ALBIZZIA GUMMIFERA (J. F. Gmel.) C. A. Smith.

338229. ALBIZZIA HARVEYI Fourn.

338230. ALBIZZIA PETERSIANA (Bolle) Oliv.

338231. ALBIZZIA VERSICOLOR (Welw. ex) Oliv.

338232. CELTIS DURANDII Engl. Ulmaceae.

338233. GAZANIA sp. Compositae.

From the Republic of South Africa. Seeds presented by Bloem Erf Nurseries, Stellenbosch, Cape Province. Received Oct. 8, 1968. Numbered Nov. 14, 1968.

338234 to 338236. CUCUMIS SATIVUS L. Cucurbitaceae.**Cucumber.**

From Turkey. Seed collected by J. G. Ross, Department of Agronomy, South Dakota State University, Brookings, S. D. Received Nov. 15, 1968.

Purchased in store in Erzurum; ecotypes selected by market gardeners in areas indicated.

338234. No. A-1206. Amasya.

338235. No. A-1207. Yusufeli.

338236. No. A-1208. Kayseri.

338237. MORUS ALBA L. Moraceae.**White mulberry.**

From Brazil. Seed presented by B. V. Skvortzov, Secretaria da Agricultura, Instituto de Botanica, Sao Paulo. Received Oct. 7, 1968. Numbered Nov. 15, 1968.

Four-year-old tree; fruits large; most productive August-September.

338238. PHASEOLUS VULGARIS L. Leguminosae. **Common bean.**

From the Netherlands. Seeds presented by Institute for Horticultural Plant Breeding, Wageningen. Received Nov. 15, 1968.

'Tip Top'.

338239 to 338241. LYCOPERSICON ESCULENTUM Mill. Solanaceae.**Tomato.**

From Canada. Seed grown by T. O. Graham, Department of Horticulture, University of Guelph, Guelph, Ontario. Received Nov. 15, 1968.

High-acid types from India.

338239. No. G-66-67. 'Improved Meeruti'.

338240. No. G-66-66. 'Uniform Ripening Meeruti' X 13.

338241. No. G-66-68. 'Uniform Ripening Meeruti' X 13.

338242 to 338245.

From Uganda. Seed presented by P. K. Karani, Forestry and Cooperatives, Ministry of Agriculture, Entebbe. Received Nov. 15, 1968.

338242. DOMBEYA BAGSHAWEI Bak. f. Sterculiaceae.

Bugamba Ankole. Shrub or small tree. Flowers white in axillary circinate inflorescence.

338243 and 338244. DOMBEYA GOETZENII K. Schum. Sterculiaceae.

338243. Ruhaga, Kigezi. Tree to 50 feet, bark smooth, grey. Flowers in umbels of 10 to 18, pale pink petals, deep red at base of staminal tube.

338244. Bugamba Ankole. Tree to 50 feet, bark smooth, grey. Flowers in umbels of 10 to 18, pale pink petals, deep red at base of staminal tube.

338245. DOMBEYA MUKOLE Sprague

Kirima, Kigezi. Tree to 40 feet. Flowers white in axillary cymes, 2 to 4 inches long.

338246 and 338247. PHASEOLUS (hybrid). Leguminosae.

From the United States. Seed bred by Shigemi Honma, Department of Horticulture, Michigan State University, East Lansing, Michigan. Received Nov. 15, 1968.

P. lunatus × *P. coccineus*. F₆.

338246. White seed.

338247. Colored seed.

338248. DOMBEYA BURGESSIAE Gerr. Sterculiaceae.

From Kenya. Seed collected by Robert E. Perdue, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Nov. 15, 1968.

Col. P-9331.

338249 to 338251. SACCHARUM (hybrid) Gramineae.

Sugarcane.

From the Republic of South Africa. Cuttings presented by the South African Sugar Association, Experiment Station, Mount Edgecombe. Received Nov. 18, 1968.

338249. N.Co. 376.

338250. N.56/75.

338251. N.56/1164.

338252 to 338303.

From Brazil. Plant material collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Numbered Nov. 20, 1968.

338252 and 338253. ARACHIS BENTHAMII Handro Leguminosae.

338252. Col. 499. IRI 1482. Instituto de Pesquisas IRI, Experimental Farm, Matao, Sao Paulo. Bunch type.

338253. Col. 520. Mato Grosso. Forty-two km. west of Bridge, Ponto. Fifteen de November, near highway at east edge of Cerrado. Perennial, to 46 cm. high, erect. Roots fleshy, lateral.

338254 and 338255. ARACHIS BURKARTII Handro

338254. Col. 362. Rio Grande do Sul. Fourteen km. east of Uruguaiana, on road to Alegrete, near Km. 144. Heavy, stony soil. Perennial, low growing, rhizomatous. Leaflets dark green, acute, glabrate above, ciliate margins and lower side. Flowers few; no fruit. Abundant.

338252 to 338303—Continued

338254 to 338255—Continued

338255. Col. 364. Rio Grande do Sul. Ten km. east of Alegrete toward Rosario do Sul. Between football field and cemetery. Medium heavy, black, stony soil. Perennial, low growing, rhizomatous. One seedling found.

338256 to 338266. *ARACHIS GLABRATA* Benth. Peanut.

338256. Col. 2. V. 799. Instituto Agronomico, Campinas, Sao Paulo. Nursery plot. Prostrate, 15 cm. high. Many rhizomes.

338257. Col. 489. V. 787. Instituto Agronomico, Campinas. Perennial. Rhizomatous.

Instituto de Pesquisas IRI, Matao, Sao Paulo.

338258. Col. 500. IRI 1548. Originally from Experimental Farm, Sertaozinho, Sao Paulo.

338259. Col. 501. IRI 1551. Originally from Matao.

338260. Col. 502. IRI 1550. Originally from Matao.

338261. Col. 552. Mato Grosso. One hundred three km. from Campo Grande at Rio Cachoetrinha crossing. Perennial. Rhizomatous, prostrate. Branches to 90 cm. long in the river bank; growth restricted on road shoulder.

338262. Col. 553. Mato Grosso State. Highway from Campo Grande to Aquidauana, two km. west of Palmeira and bridge across Rio Aquidauana, on Route 33. Perennial; rhizomatous; low growing in shrubby undergrowth of wooded area. "Cerrado" type.

338263. Col. 560. Mato Grosso. Forty km. south of Aquidauana on highway BR-74. Perennial; low growing, to 30 cm. high in site protected from grazing. Rhizomes to 1 m.

338264. Col. 563. Mato Grosso. Eight km. west of Jardim, on highway BR-34 toward Porto Murtinho. Perennial; low growing; spreading by rhizomes. No flowers, pegs, pods, or seed.

338265. Col. 571. Mato Grosso. Sixty-four km. east of Porto Murtinho along highway BR-34, in "Cerrado" vegetation. Perennial. Rhizomes to 1 m. long. Large leaflet form.

338266. Col. 576. Mato Grosso. South of Ponta Pora at Rio Amamboi, Perennial, to 10 cm. high. Rhizomatous.

338267 and 338268. *ARACHIS GLABRATA* var. *HAGANBECKII* (Harms) F. J. Herman

338267. Col. 486. V. 361-52. Instituto Agronomico, Campinas. Perennial. Rhizomatous.

338268. Col. 457. Mato Grosso. Airport near highway, Campo Grande. Perennial; taprooted, leaflets acute.

338269. *ARACHIS GUARANITICA* Chod. & Hassl.

Col. 574. Mato Grosso. Rio Amambai (0.5 km. north of highway bridge) south of Ponta Pora. Perennial, to 20 cm. high in grazed area. Trifoliolate. Ovate tubers 2 to 4 cm. long, 3 to 10 cm. deep on main root only.

338270. *ARACHIS MARTII* Handro

Col. 526. Mato Grosso. Praca de Esportes do Colegio Batista Matogrossense, south of Campo Grand. Perennial.

338271 and 338272. *ARACHIS PARAGUARIENSIS* Chod. & Hassl.

338271. Col. 570. Mato Grosso. In roadside thicket 64 km. east of Porto Murtinho on highway BR-34. Perennial, to 40 cm. high, erect; taproot with fleshy center.

338252 to 338303—Continued**337271 and 338272—Continued**

338272. Col. 573. Mato Grosso. One hundred eight km. east of Porto Murtinho on highway BR-34. Thicket with dwarf palms. Perennial, erect; roots with fleshy center.

338273. ARACHIS PSEUDOVILLOSA (Chodat et Hassler) Krap. et Greg.

Col. 575. Mato Grosso. Amambai river on highway south of Ponta Pora. Perennial; rhizomes superficial, 2 cm. deep. Leaves flat on soil.

338274 to 338278. ARACHIS REPENS Handro

338274. Col. 3. Nursery plot, Instituto Agronomico, Campinas, Sao Paulo. Prostrate, creeping, rooting at nodes; rhizomes.

338275. Col. 365. Experiment Station, Sao Gabriel, Rio Grande do Sul. Originally from Sao Paulo. Perennial, low growing, rooting at nodes. In grazed areas to 8 cm. high; in protected areas to 20 cm. high.

338276. Col. 461. Institute of Botany, Sao Paulo. Prostrate; stems rooting at nodes.

338277. Col. 467. Porto Nova, on Rio Juqueriqueri, near Sao Sebastiao, Sao Paulo. Perennial. Low growing; branches slender, lateral, rooting at nodes. No rhizomes. Flowers, pegs, or fruit not seen. Used as principal lawn planting.

338278. Col. 498. IRI 1549. Instituto de Pesquisas IRI, Mato, Sao Paulo. Typical of species.

338279. ARACHIS sp.

Col. 408. Antonina, Parana. Ponta da Pita, 6 km. from center of Antonina, 1 km. southwest of Port Administration Office. Perennial. Prostrate, no rhizomes; taproot; no adventitious roots found at nodes; lateral roots horizontal, originate 3 to 4 cm. below crown, well developed, to 38 cm. long; many nodules. Main stem to 15 cm. high, sparsely branched, with slender laterals to 60 cm. long. Flowers yellow; fruits 1.0 to 1.5 cm. long; pericarp thin; testa tan.

338280. ARACHIS sp.

Col. 410. Paranagua, Parana. Porto Dom Pedro II (Vila dos Portuarios) in lumberyard near railroad tracks. Perennial, taprooted, prostrate, no rhizomes. Adventitious roots not found at nodes. Central stem to 15 cm. Lateral branches sparse, usually from about soil line. Primary branches prostrate, creeping but not rooted at nodes. Plants spreading 75 cm. to 1.2 m diameter. Leaves 4 foliate. Flowers not seen. Pegs on very young plants. Pods scarce, moderately small, 2 segments with isthmus ranging 0.5 to 2.5 cm. long; pericarp thin, testa tan.

338281. ARACHIS sp.

Col. 485. V. 793. Instituto Agronomico, Campinas. Perennial. Rhizomatous. Prostrate or low growing.

338282. ARACHIS sp.

Col. 488. V. 795. Instituto Agronomico, Campinas. Perennial. To 51 cm. high; taprooted; roots thick, fleshy.

338283. ARACHIS sp.

Col. 491. V. 776. Instituto Agronomico, Campinas. Perennial. Taprooted, tubers 8 cm. long on ends of roots about 20 cm. down.

338284. ARACHIS sp.

Col. 492. V. 774. Instituto Agronomico, Campinas. Perennial; rhizomatous, low growing.

338252 to 338303—Continued

338285. ARACHIS sp.

Col. 521. Mato Grosso. Forty two km. west of Bridge, Ponto 15 de November. Near highway at east edge of garden. Perennial, upright. Stems single; leaflets 4 with prominent cilia on margins; roots with fleshy tubers.

338286. ARACHIS sp.

Col. 522. Mato Grosso. Two hundred thirty km. west of Mato Grosso-Sao Paulo border at Ponto 15 de November, on highway BR 267. Roadside. Perennial, upright. Stems single; leaflets 4 with prominent cilia on margins; roots have fleshy tubers on margins.

338287. ARACHIS sp.

Col. 523. Mato Grosso. Three hundred seventy-three km. from Mato Grosso-Sao Paulo border; about 4 km. north of big bend in highway enroute Campo Grande. Roadside. Perennial. Slender, erect, usually single plants, to 60 cm. high in hard packed soil. Two types leaflets; no flowers, fruits. Taproots superficial; lateral roots initially slender becoming tubers to several cm. long; main root sometimes become tuberous.

338288. ARACHIS sp.

Col. 524. Mato Grosso. Near Campo Grande along road south to Faz. Imbrussi. Perennial. Slender, erect, leaflets ciliate. Roots lateral with tubers.

338289. ARACHIS sp.

Col. 548. Mato Grosso. Airport near highway, Campo Grande. Perennial. Older plants 60 cm. high, tubers to 6 cm. long on main and lateral roots.

338290. ARACHIS sp.

Col. 550. Mato Grosso. At 69 km. west of Campo Grande on road to Aquidauana. Perennial. Plants growing in shrubs 60 cm. high, sparsely branched. Tubers slender, to 13 cm. long.

338291. ARACHIS sp.

Col. 551. Mato Grosso. Sixty-nine km. west of Campo Grande. Low growing; crown bushy; many branches from one crown. Plants to 20 cm. high.

338292. ARACHIS sp.

Col. 554. Mato Grosso. Highway 33 from Campo Grande to Aquidauana, two km. west of Palmeira and bridge across Rio Aquidauana. Perennial, to 41 cm. high. Branches sparse to none from mainstems. Erect. Leaves 4 with woolly hairs. Tubers relatively slender, to several cm. long.

338293. ARACHIS sp.

Col. 555. Mato Grosso. Highway 33 from Campo Grande to Aquidauana. Abundant. Perennial. From one to several branches to 90 cm. long, mostly from crowns of older plants. Leaflets acute or acuminate on same plant, villous below, glabrate above. Taprooted, with fleshy lateral roots.

338294. ARACHIS sp.

Col. 559. Mato Grosso. Forty km. south of Aquidauana. Perennial, tall, leaves villous or woolly below, glabrate above, margins ciliate. Tubers relatively long, slender on tap and lateral roots.

338295. ARACHIS sp.

Col. 562. Mato Grosso. Eight km. west of Jardim toward Porto Murinho. Perennial; erect, some plants with many new branches were decapitated by bulldozing. Pods several, immature; roots tuberous.

338252 to 338303—Continued

338296. *ARACHIS* sp.

Col. 564. Mato Grosso. Along highway BR-34, 63 km. west of Jardim toward Porto Murтинho, in grasslands. Stony, red soil, in Campos, grazed area. Eight km. east of Cerrado. Perennial. Low growing, leaflets acute, glabrate; rhizomes.

338297. *ARACHIS* sp.

Col. 565. Mato Grosso. River bank about 43 km. east of Porto Murтинho on highway BR-34. Perennial. To 15 cm. high; leaves woolly below, glabrate above with ciliate margins; taprooted.

338298. *ARACHIS* sp.

Col. 566. Mato Grosso. River bank about 43 km. east of Porto Murтинho on highway BR-34. Perennial. To 38 cm. high; leaves glabrate above and below. Taproot to 2.54 cm. diameter in old plant.

338299. *ARACHIS* sp.

Col. 567. Mato Grosso. Along highway BR-34, fifty-one km. east of Porto Murтинho, on rocky roadside by small river. Perennial. Rhizomatous. Leaves glabrate. Low growing.

338300. *ARACHIS* sp.

Col. 568. Mato Grosso. Along highway BR-34, by small river 51 km. east of Porto Murтинho. Perennial. Taprooted; with rhizomes.

338301. *ARACHIS* sp.

Col. 569. Mato Grosso. Along highway BR-34, by small river, 51 km. east of Porto Murтинho. Perennial. Low growing; rhizomes; leaflets obovate, pointed at reflexed tips, glabrous, dark green. Leaflet margins with bristles.

338302. *ARACHIS* sp.

Col. 572. Mato Grosso. Along highway BR-34, 87 km. east of Porto Murтинho. Perennial. Erect; to 30 cm. high. Leaflets elongate, linear, narrow, pointed at tip. Roots just forming, not tuberous.

338303. *ARACHIS* sp.

Col. 577. Mato Grosso. South of Ponta Pora at Rio Amambai bridge. Perennial, to 4 cm. high. Leaflets large, 3.5 by 1.7 cm. Rhizomes 1.0 m. long. May be natural interspecific hybrid.

338304 to 338319.

From Argentina. Plant material collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, Ga., and Experiment, Ga. Numbered Nov. 20, 1968.

338304 and 338305. *ARACHIS GLABRATA* var. *HAGANBECKII* (Harms) F. J. Herman

338304. Col. 334. Corrientes. On Route 5, half-way between Paso Florentin and General Paz. Perennial. Rhizomatous. Leaflets 2.54 cm. long, tapered to acute angle. No flowers, pods or seed.

338305. Col. 349. Saladas, Corrientes Province. Route 17, 400 m. southeast of railroad crossing. Perennial, low growing. Rhizomatous; branches slender.

338306 to 338308. *ARACHIS PARAGUARIENSIS* Chod. & Hassl.

338306. Col. 208. From collection of A. Krapovickas, Faculty Agriculture and Veterinary, Nordeste University, Corrientes. GKP No. 11462. Perennial. Erect. Taprooted (deep, carrotlike). No rhizomes. Leaves coriaceous, linear. Plants four years old. No pegs or pods seen.

Faculty of Agronomy and Veterinary, Genetics Garden, Corrientes.

338304 to 338319—Continued

338306 to 338308—Continued

338307. Col. 324. AK No. 11488. Originally collected at Ipacarai, Paraguay. Erect, to 20 cm. high; branches sparse; leaves linear, coriaceous.

338308. Col. 325. AK 11462. Originally collected at Tobati, Paraguay. Erect; taprooted; branches sparse; leaves leathery, lanceolate; pegs to 0.6 m.; pods many, immature.

338309. *ARACHIS VILLOSA* Benth.

Col. 357. Pasa de los Libres, Corrientes Province, 500 m. south of International Bridge in park of Hotel de Turismo, in grazed area. Perennial. Deep taprooted, root crown to 3 cm. diameter, no branch roots on upper 5 cm. Foliage sparse.

338310 and 338311. *ARCHIS VILLOSA* var. *CORRIENTINA* Burkart

338310. Col. 206. Arroya Riachuelo, Route 12, Corrientes Province. Perennial. Plants 2 or more years old; taproots 0.9 m. long; no rhizomes; branches slender, sparse, 1 m. long. No pegs or seed.

338311. Col. 332. Nine km. southeast of San Luis de Palmar, Route 5, Corrientes Province. Department San Luis de Palmer. On roadside in deep sand. Perennial, closely grazed; tap rooted. No pods or seed.

338312. *ARACHIS* sp.

Col. 207. GKP 9484. Collection of A. Krapovickas, Faculty of Agronomy and Veterinary, Nordeste University, Corrientes. Perennial. Plants 1 to 4 years old, spreading to 3 m.; taproots to 2 cm. diameter at soil line. Pegs few; pods immature. Seedling leaves larger than on 2-year-old plants.

338313. *ARACHIS* sp.

Col. 322. AK 12593. Faculty of Agronomy and Veterinary, Genetics Garden, Corrientes. Prostrate, taprooted; flowers many, orange; seeds sprouting. Bristles in stipules.

338314. *ARACHIS* sp.

Col. 323. AK 12787. Faculty of Agronomy and Veterinary, Genetics Garden, Corrientes. Originally collected at Cruz das Almas, Brazil. Prostrate, matted; leaflets large, dark green; flowers light yellow; prolific seeder; roots at nodes. Stolonerous.

338315. *ARACHIS* sp.

Col. 327. AK 14248. Faculty of Agronomy and Veterinary, Genetics Garden, Corrientes. Originally collected at Concepcion, Paraguay. Prostrate. Plants very small; all leaves touching soil. Crown of plant should be 20 cm. below soil surface. No seed.

338316. *ARACHIS* sp.

Col. 333. Paso Florentin, Corrientes Province, on Route 5. Across road from store, between highway and railroad. Perennial. Prostrate; rhizomatous; leaves lanceolate. Well grazed, sandy-loam soil on roadside. No flowers, pods or seed.

338317. *ARACHIS* sp.

Col. 335. Corrientes Province. Ten km. northeast of General Paz, along Route 13 toward Arerungua. Perennial. Rhizomatous; sparse stand in dense grass sod, closely grazed. Pegs found, but no pods.

338318. *ARACHIS* sp.

Col. 345. Corrientes Province. Route 12 at Rio Empedrada. Black clay soil. Perennial, to 15 cm. high. Rhizomatous. Branches slender; leaflets acuminate, glabrate above, ciliate margins and midvein on lower surface at pulvinus. No pods, pegs, seed, or flowers.

338304 to 338319—Continued**338319. ARACHIS sp.**

Col. 354. Corrientes Province. Route 23, toward Paso de los Libres, 16 km. southeast of Mercedes. Heavy black prairie soil. Perennial. Rhizomatous; leaflets small. Acuminate.

338320. ARACHIS sp. Leguminosae.

From Paraguay. Plant material collected by Antonia Krapovickas, Northeast National University, Corrientes, Argentina, and Victor Hemsy, National University of Tucuman, Tucuman, Argentina. Numbered Nov. 20, 1968.

Col. KHe 14444. Collected in native habitat, Cerro Cora, Amambay Department, Paraguay, 45 km. west of Ponta Pora, Brazil. Plants erect; leaves large.

338321 to 338329.

From Uruguay. Plant material collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, Ga., and Experiment, Ga. Numbered Nov. 20, 1968.

338321 to 338324. ARACHIS VILLOSA Benth.

338321. Col. 8. Eight km. northwest of Colonia, Playa Artilleros, 67 m. from Rio de la Plata and 90 m. from road. Prostrate. Branches sparse; leaves small, ciliate margins; taproot 1 cm. in diameter, 37 cm. long. Well nodulated; no rhizomes; pegs vertical, to 51 cm. with isthmus 7 cm. between the two locules.

338322. Col. 10. Seven km. northwest of Colonia, 200 m. from Rio de la Plata, on sand dunes. Perennial. Prostrate. Foliage sparse; leaves small; petioles longer than P.I. 338321; pegs horizontal, 20 cm. long, peripheral. Taprooted; no rhizomes.

338323. Col. 12. Fourteen km. southeast of Colonia, 125 m. from Rio de la Plata. Perennial. Prostrate; seeds sparse; leaves pubescent, ciliate.

338324. Col. 14. Twelve km. southeast of Colonia, 40 km. from Rio de la Plata. Perennial. Prostrate; seeds few; no rhizomes; leaves pubescent, ciliate.

338325. ARACHIS sp.

Col. 16. Mirador "Las Lavanderas" at Salto, 50 km. from Rio Uruguay. Prostrate. Rhizomatous; leaves glabrate with ciliate margins and petioles. Plants young, 5 cm. high. Flower yellow. No seed.

338326. ARACHIS sp.

Col. 17. Four km. south of Salto on bank of Rio Uruguay. Prostrate. Rhizomatous; leaves glabrate with ciliate margins and petioles. Plants young, 5 cm. high.

338327. ARACHIS sp.

Col. 23. Along Route 5, 30 km. northeast of Tacuarembó. Prostrate. Small, dark green, rhizomatous. Flowering, no pods or pegs. Leaves glabrous with ciliate margins. Leaflets small, rachis very short.

338328. ARACHIS sp.

Col. 24. Along Route 5, 74 km. north of Tacuarembó, 46 km. south of Rivera. Plants prostrate, small, rhizomatous. Leaves glaucous green, except ciliate margins. Leaflets small, rachis very short. No pods, pegs or seed.

338321 to 338329—Continued**338329. ARACHIS sp.**

Col. 27. Eight km. west of Route 5 on Route 30, east of Tranqueras. Prostrate. Low growing; rhizomes many; leaves glabrous with ciliate margins. No pods, flowers or seed.

338330 to 338334. SACCHARUM (hybrid) Gramineae.**Sugarcane.**

From Puerto Rico. Cuttings presented by the Estacion Experimental Agricola, Rio Piedras. Received Nov. 21, 1968.

338330. 'Bamboo amarilla'. 338333. P.R. 1117.**338331. 'Mulata'. 338334. 28 N.G. 13.****338332. P.R.1085.****338335 to 338339. ARACHIS HYPOGAEA L. Leguminosae.**

From Venezuela. Seed presented by Bruno Mazzani P., Department of Fitotecnia, Centro de Investigaciones Agronomicas, Maracay. Received Nov. 21, 1968.,

338335. No. 1. Spanish hybrid F7. Pods 2 segmented, short, medium large; testa flesh.**338336. No. 2. Valencia. Seed medium; testa red.****338337. No. 3. Valencia. Seed medium long; testa flesh.****338338. No. 4. Virginia. Pods short, 3 segmented, testa purple. Reported resistant to leaf spot.****338339. No. 68-31. 'Makulu Red'. Originally from Rhodesia. Pods 2 segmented, beaked, prominent keel. Yield low. Reported resistant to leaf spot.****338340. VIGNA sp. Leguminosae.**

From Brazil. Seed collected by R. O. Hammons and W. R. Langford, Crops Research Division, Agricultural Research Service, Tifton, and Experiment, Ga. Received Nov. 21, 1968.

Col. 691. Entrance gate to grounds of Clube Praia dos Cagarros near Sao Sebastiao, Sao Paulo. Herbaceous, low-growing vine. Pods pubescent, dehiscent.

338341. DOLICHOS LABLAB L. Leguminosae. Hyacinth-bean.

From Zambia. Seed presented by W. C. Verboom, Department of Agriculture, Lusaka. Received Nov. 21, 1968.

338342 to 338344. HELIANTHUS ANNUUS L. Compositae.**Sunflower.**

From France. Seed presented by P. LeClercq, Station d'Amelioration des Plantes, Clermont-Ferrand. Received Nov. 21, 1968.

Male sterile lines.

338342. Mb1-ba-a.**338343. M5-2-a-a.****338344. M10-2-a-a.****338345. ORYZA SATIVA L. Gramineae.****Rice.**

From Austria. Seed presented by H. Jungbauer, Botanic Garden, Myrtheng 3, Vienna. Received Nov. 27, 1968.

'C4-63'. One-hundred-day maturity. Originally from the Philippines.

338346. RHODODENDRON HYPENANTHUS Balf. f. Ericaceae.

From India. Seed presented by the Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Nov. 21, 1968.

338347. AVENA SATIVA L. Gramineae. Common oats.

From Australia. Seed presented by J. Reeves, Department of Agriculture, South Perth, Western Australia. Received Nov. 21, 1968.

'Dwarf Palestine'.

338348 to 338368.

From Belgium. Seed presented by L. Noulard, Station de Recherches de l'Etat pour l'Amelioration des Plantes de Grande Culture, Gembloux. Received Nov. 21, 1968.

338348 to 338353. AVENA SATIVA L. Gramineae. Common oats.

338348. 'Borreck'.	338351. 'Karin'.
338349. 'Dian'.	338352. 'Peragold'.
338350. 'Greta'.	338353. 'Rigal'.

338354 to 338356. HORDEUM VULGARE L. Gramineae.

Spring barley.

338354. 'Cristal'.

338355. 'Perorge'.

Winter barley.

338356. 'L. 456'.

338357 to 338365. TRITICUM AESTIVUM L. Gramineae. Common wheat.

Winter wheat.

338357. 'Bright'.

338361. 'Norda'.

338358. 'Cama'.

338362. 'Panter'.

338359. 'Marco'.

338363. 'Rustique'.

338360. 'Mina'.

Spring wheat.

338364. 'Aga'.

338365. 'Perso'.

338366 to 338368. TRITICUM SPELTA L. Spelt.

338366. 'Ardenne'.

338367. 'Lignee 2'.

338368. 'Lignee 24'.

338369 and 338370.

From Sweden. Seed presented by Fajer Fajersson, Plant Breeding Institution, Weibullsholm. Received Nov. 21, 1968.

338369. HOREUM VULGARE L. Gramineae.

'Gasell'. Herta × ((Balder × Binder) × Opal/. Spring barley.

338370. TRITICUM AESTIVUM L. Gramineae. Common wheat.

'Starke'. W 11376 × (Eroica × Virtus). Winter wheat.

338371. BRACHIARIA RUZIZIENSIS Germain & Eyrard. Gramineae.

From Panama. Stolons collected by A. J. Oakes, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Nov. 25, 1968.

Col. 839. Gualaca Experiment Station, David. Stoloniferous, sod forming; color dark green.

338372 to 338403.

From Poland. Seed presented by Tadeusz Wolski, Poznanska Hodowla Rosalin, Dzial-Hodowli w Chorynl, Warsaw. Received Nov. 21, 1968.

338372 to 338376. AVENA SATIVA L. Gramineae. Common oats.

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| 338372. 'Antoninski Pozny'. | 338375. 'Przeboj II'. |
| 338373. 'Bartek Udycki'. | 338376. 'Udycz Zolty'. |
| 338374. 'Bialy Mazur'. | |

338377 to 338383. SECALE CEREALE L. Gramineae. Rye.

- Winter rye.
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| 338377. 'Chrobre'. | 338381. 'Smolickie'. |
| 338378. 'Dankowskie Selekcyjne'. | 338382. 'Wloszanowskie'. |
| 338379. 'Dankowskie Zlote'. | 338383. 'Wloszanowskie Nowe'. |
| 338380. 'Garczynskie'. | |

338384 to 338403. TRITICUM AESTIVUM L. Gramineae. Common wheat.

Spring wheat.

338384. 'Gorzowska Sztynwna'.
338385. 'Ostka Popularna'.

Winter wheat.

338386. 'Blondynka'.
338387. C 48.
338388. C 517.
338389. 'Dankowska Biala'.
338390. 'Eka Nowa'.
338391. 'Komorowska'.
338392. 'Kujawianka Wieclawicka'.
338393. 'Kutnowianka'.
338394. 'Leszczynska Wczesna'.
338395. 'Malgorzatka Udycka'.
338396. 'Mira'.
338397. 'Ninka II'.
338398. 'Olza'.
338399. 'Podolanka'.
338400. 'Slazaczka'.
338401. 'Szelejewska'.
338402. 'Wysokolitewka Sztynwnosloma'.
338403. 'Zelazna'.

338404 to 338446. TRITICUM AESTIVUM L. Gramineae. Common wheat.

From India. Seed presented by the Indian Agricultural Research Institute, New Delhi. Received Nov. 21, 1968.

Resistant to rice weevil attack.

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| 338404. E. 4810. | 338407. E. 7109. |
| 338405. E. 4824. | 338408. E. 7122. |
| 338406. E. 4797. | 338409. E. 3945. |

338404 to 338446—Continued

338410. E. 4035.	338412. E. 6195.
338411. E. 1939.	
Resistant to the lesser grain borer.	
338413. N.P. 17-1-1-1.	338430. E. 6001.
338414. N.P. 764.	338431. E. 4957.
338415. N.P. 768.	338432. E. 6016.
338416. N.P. 766.	338433. E. 4647.
338417. N.P. 757.	338434. E. 3479.
338418. N.P. 717.	338435. E. 6006.
338419. N.P. 779.	338436. E. 5883.
338420. N.P. 733.	338437. E. 6009.
338421. N.P. 70-1-1-1.	338438. E. 6893.
338422. N.P. 780.	338439. E. 6935.
338423. N.P. 781.	338440. E. 4318.
338424. HD 1592.	338441. E. 2100.
338425. N.P. 7-1-6-1.	338442. E. 6946.
338426. N.P. 3-7-2-6.	338443. E. 6912.
338427. E. 3740.	338444. E. 4642.
338428. E. 4900.	338445. C. 307.
338429. E. 5892.	338446. D. 144.

338447 to 338453.

From Brazil. Seed collected 1967 by W. C. Gregory, Department of Crop Science, North Carolina State University, Raleigh, North Carolina. Numbered Nov. 22, 1968.

338447. *ARACHIS* sp. Leguminosae.

Col. No. 12787. Cruz das Almas, near Atlantic, Bahia, enroute from Rio Jequitihonha.

338448. *ARACHIS* sp.

Col. No. 12881. Joazeiro, Bahia.

338449. *ARACHIS* sp.

Col. No. 12922. Fifteen km. west of Joazeiro, Bahia.

338450. *ARACHIS* sp.

Col. No. 12939. Fortaleza-Sobral on road, 50 km. east of Sobral, Ceara.

338451. *ARACHIS* sp.

Col. No. 12941. Sobral, Ceara.

338452. *ARACHIS* sp.

Col. No. 12943. Sobral, Ceara.

338453. *ARACHIS* sp.

Col. No. 12946. Tapera, Pernambuco.

338454 to 338465.

From the Philippines. Seed collected by R. G. Wilson, San Vito de Java, Costa Rica. From the Sagada, Mountain Province. Received Nov. 26, 1968.

338454 to 338465—Continued

338454. *FICUS ULMIFOLIA* Lam. Moraceae.

Vine with very variable leaves.

338455. *MELASTOMA* sp. Melastomaceae.

Shrub. Flowers pink, 2 inches.

338456. *NEPENTHES ALATA* Blanco Nepenthaceae.

Terrestrial, full sun.

338457. *NEPENTHES BURKEI* Mast.

Terrestrial, full sun.

338458. *RHODODENDRON* sp. Ericaceae.

Bush to 8 feet high, leaves 1½ to 2 inches, flower white.

338459. *RHODODENDRON* sp.

Flowers red.

338460. *RHODODENDRON* sp.

Flowers white.

338461. *RHODODENDRON* sp.

Flowers red. Tree to 20 ft. Origin Ceylon.

338462. *ROSA PHILIPPINENSIS* Merr. Rosaceae.

Flowers white.

338463. *VACCINIUM* sp. Ericaceae.

338464. Undetermined. Leguminosae.

Ornamental sold in flower market, Bangkok.

338465. Undetermined.

338466 and 338467. SACCHARUM (hybrid) Gramineae. Sugarcane.

From the Dominican Republic. Cuttings presented by the Gulf Western Americas Corporation, La Romana. Received Nov. 27, 1968.

338466. CR 62-10.

338467. CR 64-134.

338468. AVENA SATIVA L. Gramineae. Common oats.

From Japan. Seed presented by Seiji Tabata, Hokkaido National Agricultural Experiment Station, Hitsujigaoka, Sapporo, Hokkaido. Received Nov. 27, 1968.

'R 6620'.

338469 to 338489. SACCHARUM (hybrid) Gramineae. Sugarcane.

From Hawaii. Cuttings presented by the Hawaiian Sugar Planters Association, Honolulu. Received Nov. 27, 1968.

338469. H. 53-4662.

338475. H. 58-9972.

338470. H. 53-4764.

338476. H. 58-9974.

338471. H. 53-4793.

338477. H. 60-6909.

338472. H. 57-5174.

338478. H. 60-9924.

338473. H. 58-9966.

338479. H. 61-5699.

338474. H. 58-9968.

338480. H. 61-5700.

338469 to 338489—Continued

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| 338481. H. 61-5894. | 338486. H. 63-8399. |
| 338482. H. 61-5896. | 338487. Keong. |
| 338483. H. 61-5897. | 338488. Arundoid B. |
| 338484. H. 63-8391. | 338489. Arundoid C. |
| 338485. H. 63-8397. | |

338490 to 338496.

From Bulgaria. Seed presented by Chr. Daskaloff, Institute of Genetics and Plant Breeding, Sofia. Received Nov. 29, 1968.

338490. *CAPSICUM ANNUUM* L. Solanaceae. Pimento.
Male sterile, F₂.

338491. *CAPSICUM* (hybrid)
Male sterile, F₂. (*C. annum* × *C. pendulum*).

338492 to 338496. *LYCOPERSICON ESCULENTUM* Mill. Solanaceae. Tomato.

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| 338492. 'Balkan'. | 338495. 'Pioneer 2'. |
| 338493. 'Drushba'. | 338496. 'Vitosha'. |
| 338494. 'Pioneer 1'. | |

338497 to 338506. ARACHIS HYPOGAEA L. Leguminosae.

From India. Seed presented by Indian Agricultural Research Institute, Division of Plant Introduction, New Delhi. Received Dec. 5, 1968.

Regional Research Station, Tindivanam, Madras.

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| 338497. A.H. 6742. | 338499. A.H. 7616. |
| 338498. A.H. 6644. | 338500. T.M.V. 6. |

Agricultural College and Research Institute, Coimbatore, Madras.

338501. T.M.V. 7.

Punjab Agricultural University, Ludhiana, Punjab.

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| 338502. A.H. 259. | 338505. Cochin White. |
| 338503. C-3. | 338506. F-15. |

338504. Cochin Red.

338507. BRASSICA NAPUS var. NAPOBRASSICA (L.) Reichb. Brassicaceae. Rutabaga.

From Canada. Seed presented by G. W. Ayers, Canada Department of Agriculture Research Station, Charlottetown, Prince Edward Island. Received Dec. 5, 1968.

'York'. Purple top, globe, flesh yellow, taproot deep, fibrous roots sparse. Table quality superior. Resistant to clubroot races 2, 3, 5, 6, 7.

338508 to 338510. NICOTIANA TABACUM L. Solanaceae. Tobacco.

From Taiwan. Seed presented by Hsiung Wan, Department of Agronomy, National Taiwan University, Taipei. Received Dec. 5, 1968.

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| 338508. T.I. 1502. 'W.K. 39'. Developed in South Africa. |
| 338509. T.I. 1503. 'Immunzi'. From U.S.S.R. via Southern Rhodesia. |
| 338510. T.I. 1504. 'Trapezund 161.' |

338511 and 338512. ORYZA SATIVA L. Gramineae. Rice.

From Taiwan. Seed presented by the Provincial Chung-Hsing University, Taichung. Received Dec. 5, 1968.

338511 and 338512—Continued

338511. YH-1.

338512. YH-2.

338513 to 338515. SACCHARUM (hybrid) Gramineae. Sugarcane.

From Taiwan. Cuttings presented by the Taiwan Sugar Experiment Station, Tainan. Received Dec. 9, 1968.

338513. 'Hualien-5'.

338514. F-155.

338515. F-156.

338516 to 338533.

From Greece. Seed presented by the Institute of Cereals, Thessalonika. Received Dec. 9, 1968.

338516 and 338517. AVENA SATIVA L. Gramineae. Common oats.

338516. 'Kassandra'.

338517. 'Trispermir'.

338518. HORDEUM sp. Gramineae.

'Attiki'.

338519. HORDEUM sp.

'Beka'.

338520. HORDEUM sp.

'Cascade'.

338521. HORDEUM sp.

'Elasson'.

338522. HORDEUM sp.

'Pirolina'.

338523. HORDEUM sp.

'Rivale'.

338524. HORDEUM sp.

'Thermi'.

338525 to 338533. TRITICUM AESTIVUM L. Gramineae. Common wheat.

338525. 'Amintas'.

338530. 'Niki'.

338526. 'Generoso'.

338531. 'Olimpia'.

338527. 'Ilektra'.

338532. 'Pella'.

338528. 'Limnos'.

338533. 'Pindos'.

338529. 'Methoni'.

338534 to 338549.

From Belgium. Plant material received from Robert deBelder, Arboretum Kalmthout, Kalmthout. Numbered Dec. 10, 1968.

338534. SALIX × BOYDII E. F. Linton Salicaceae.

(S. lantana × reticulata).

338535. SALIX × COTTETTI Kerner.

(S. myrsinifolia × retusa).

338534 to 338549—Continued338536. *SALIX GRAHAMII* Borrer338537. *SALIX HASTATA* L.

'Wehrhahnii'. Male selection.

338538. *SALIX HELVETICA* Vill.338539 and 338540. *SALIX LANATA* L.

338539. 'Stuartii'.

338540. No varietal name.

338541. *SALIX LAPPONUM* L.338542. *SALIX MYRSINITES* var. *JACQUINIANA* (Willd.) Koch338543 and 338544. *SALIX RETUSA* L.

338543. Low bush.

338544. Creeping type.

338545. *SALIX SERPYLLIFOLIA* Scop.338546. *SALIX SIMULATRIX* B. White(*S. arbuscula* × *herbacea*).338547. *SALIX UNDULATA* Ehrh.338548. *SALIX* sp.338549. *SALIX* sp.**338550. ORYZA SATIVA** L. Gramineae.**Rice.**

From Taiwan. Seed presented by the Taiwan Agricultural Research Institute, Taipei. Received Dec. 10, 1968.

'Kaohsiung shen 2'.

338551. TRITICUM AESTIVUM L. Gramineae. **Common wheat.**

From Australia. Seed presented by the New South Wales Department of Agriculture, Sydney. Received Dec. 16, 1968.

'Windebri'. Temora Agricultural Research Station.

338552 to 338562. ARACHIS HYPOGAEA L. Leguminosae.

From Brazil. Seed collected by N. W. Gilbert, University of Arizona Technical Assistance Contract, U.S. Agency for International Development, Fortaleza. Received Dec. 18, 1968.

Collected in State of Ceara at locations indicated, August 1968.

338552. Col. Ce 68-1. Vicinity Assaré.

338553. Col. Ce 68-2. Varzea Alegre.

338554. Col. Ce 68-3. 'Paulista'. Vicinity Crato.

338555. Col. Ce 68-4. Caririaçu.

338556. Col. Ce 68-5. 'Galenjão'. Juazeiro do Norte.

338557. Col. Ce 68-6. Barbalha.

338558. Col. Ce 68-7. Lavras da Mangabeira.

338559. Col. Ce 68-8. Porteiras.

338560. Col. Ce 68-9. 'Jacobina'. Crato.

338561. Col. Ce 68-10. 'Mandobim'. Crato.

338562. Col. Ce 68-11. Public market, Crato.

**338563 to 338582. ZOYSIA JAPONICA Steud. Gramineae.
Japanese lawngrass.**

From Korea. Seed presented by Sang Yung Shim, Institute of Forest Genetics, Suwon. Received Oct. 4, 1968. Numbered Dec. 19, 1968.

All collections from local sites near Institute headquarters.

- 338563. No. 1. Moderately wet area.
- 338564. No. 2. In pine stand.
- 338565. No. 3. Near dam.
- 338566. No. 4. Clone bank.
- 338567. No. 5. Near netting house.
- 338568. No. 6. Front weather station.
- 338569. No. 7. Near greenhouse (5).
- 338570. No. 8. Under shade of alder tree, wet area.
- 338571. No. 9. Entrance of grass trial field.
- 338572. No. 10. Seed orchard, east side.
- 338573. No. 11. Near alder tree plot, dry spot.
- 338574. No. 12. Near main entrance, beside exotic tree plot.
- 338575. No. 13. Front of laboratory.
- 338576. No. 14. Near east gate.
- 338577. No. 15. Poplar sample plot.
- 338578. No. 16. Near pine seedling nursery.
- 338579. No. 17. In chestnut field.
- 338580. No. 18. Near pine sample plot.
- 338581. No. 19. In grass sample plot.
- 338582. No. 20. Near crotalaria plot.

338583 to 338613.

From Costa Rica. Seed collected by A. J. Oakes, Crops Research Division, Plant Industry Station, Beltsville, Md. Received Oct. 16, 1968. Numbered Dec. 23, 1968.

Collected at the Instituto Interamericano de Ciencias Agrícolas, Turrialba.

- 338583. CAJANAS FLAVUS DC. Leguminosae.
Col. 817.
- 338584. CANAVALIA ENSIFORMIS (L.) DC. Leguminosae. **Jack-bean.**
Col. 807. No. 4181. 1965 seed.
- 338585. CANAVALIA GLADIATA (Jacq.) DC. **Sword-bean.**
Col. 808. 1964 seed.
- 338586. CASSIA sp. Leguminosae.
Col. 800. No. 3448. 1967 seed.
- 338587. CENTROSEMA PLUMIERI (Turp.) Benth. Leguminosae.
Col. 806. 1965 seed.
- 338588. CENTROSEMA PUBESCENS Benth.
Col. 805. 1968 seed.
- 338589. CROTALATIA sp. Leguminosae.
Col. 787. Plants 2 m. high, branched, leaves trifoliate.

338583 to 338613—Continued

338590. *CROTALARIA* sp.

Col. 788. Plants 1 to 2 m. high, branched, leaves trifoliate.

338591. *CROTALARIA* sp.

Col. 797. Plants 2 to 3 m. high, branched, flowers borne on long terminal spikes, pods 3 to 4 cm. long, 10 to 12 mm. thick, flat on two sides.

338592. *CROTALARIA* sp.

Col. 799.

338593. *DESMODIUM BARBATUM* (L.) Benth. Leguminosae.

Col. 813. 1963 seed.

338594. *DESMODIUM INTORTUM* (Mill.) Urb.

Col. 814.

338595. *DESMODIUM OVALIFOLIUM* Guill & Perr.

Col. 812. 1968 seed.

338596. *DESMODIUM* sp.

Col. 801. 1965 seed.

338597. *DESMODIUM* sp.

Col. 802. 1965 seed.

338598. *DESMODIUM* sp.

Col. 803. 1965 seed.

338599. *DESMODIUM* sp.

Col. 804. No. 18. 1967 seed.

338600. *DESMODIUM* sp.

Col. 819.

338601. *DOLICHOS LABLAB* L. Leguminosae.

Hyacinth-bean.

Col. 818.

338602. *GLYCINE WIGHTII* (R. Grah. ex Wight & Arn.) Verdcourt Leguminosae.

Col. 815. B-4-013. 1968 seed.

338603. *INDIGOFERA* sp. Leguminosae.

Col. 795. Prostrate, viny.

338604. *INDIGOFERA* sp.Col. 789. Resembles *I. hirsuta*.338605 and 338606. *LEUCAENA LEUCOCEPHALA* (Lam.) deWit Leguminosae.
Leadtrees.

338605. Col. 791. No. 64.041. Plot N-12. Plants 2 to 3 m. high with branches near ground level.

338606. Col. 792. Living fence post, 10 to 12 m. high. Heavy seed production.

338607. *LEUCAENA* sp.

Col. 790. Plants 2 to 3 m. high, branched, few lower branches, pods 9 to 12 cm. long, 1.0-1.5 cm. wide, thin.

338608. *PANICUM ANTIDOTALE* Retz. Gramineae.

Blue panicgrass.

Col. 840.

338583 to 338613—Continued

338609. PANICUM sp.

Col. 838. Twenty km. south of Cartago. Elevation 1,500 m. In grazed rangeland. Plants 2 cm. high. Seedheads 4 to 8 cm. long including stem.

338610. PSOPHOCARPUS TETRAGONOLOBUS (L.) DC. Leguminosae.

Goabean.

Col. 816. 1967 seed.

338611. STIZOLOBIUM sp. Leguminosae.

Col. 809.

338612 and 338613. TERAMNUS UNCINATUS (L.) Swartz Leguminosae.

338612. Col. 810.

338613. Col. 811. 010-274. 1968 seed.

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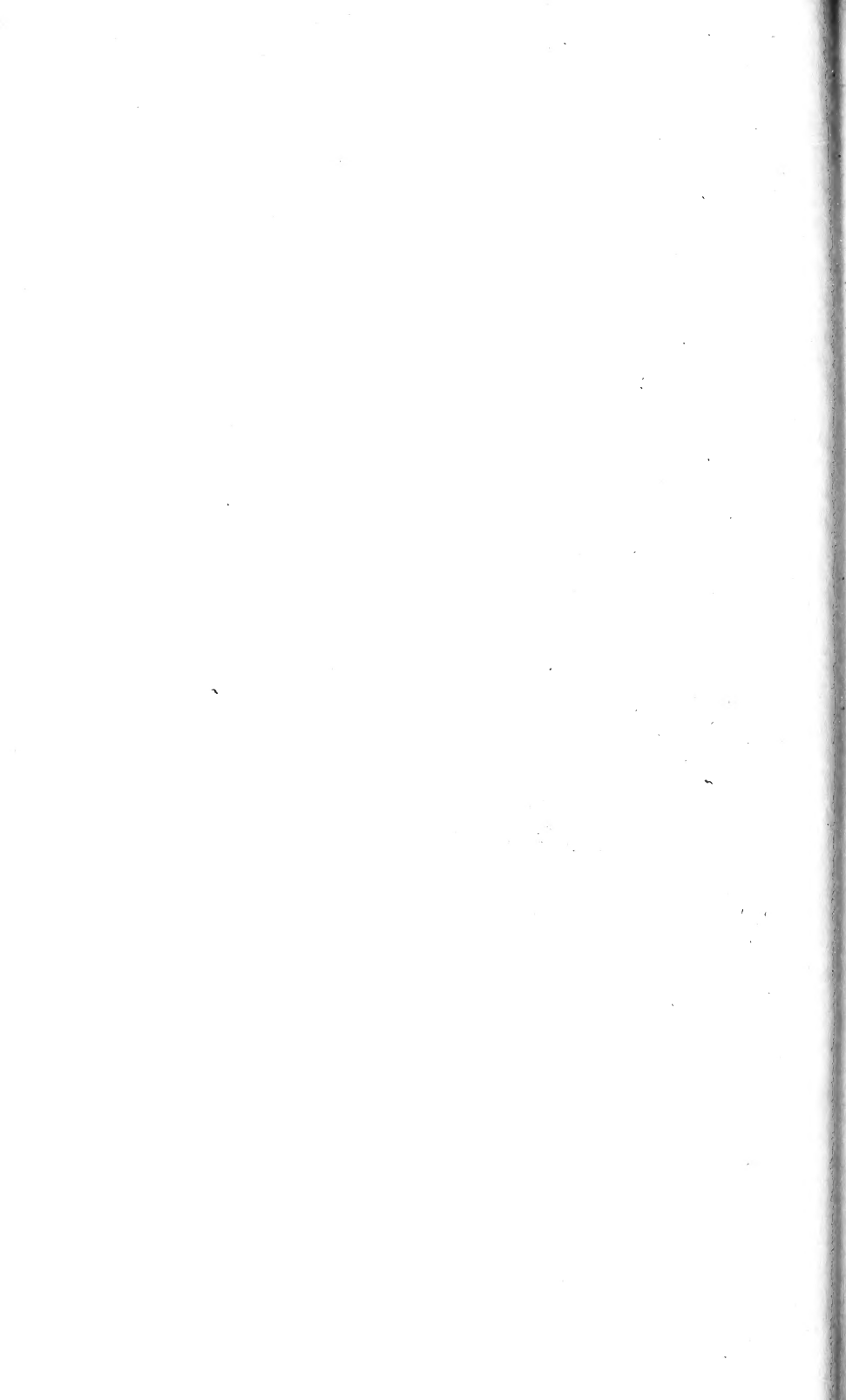
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