Performance of COMMERCIAL CORN HYBRIDS in Illinois, 1960

By Earl R. Leng
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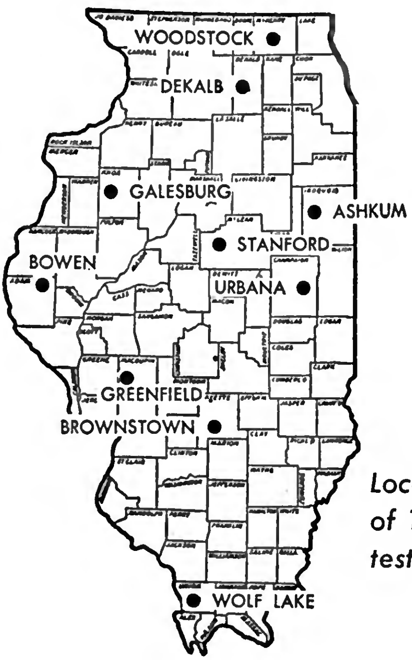

Location of 1960 test fields

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Urbana, Illinois March, 1961

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PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 1960

By Earl R. Leng and G. L. Ross[1]

A bumper 1960 corn crop of almost 697 million bushels was estimated for Illinois — 3 percent above the previous peak production established in 1959. The average yield of 68 bushels per acre was 1 bushel below the all-time high yield of 69 bushels established in 1958. The crop generally appeared to be of excellent quality although intermittent showers and damp weather slowed drying. Very little of the late corn was damaged by frost.[2]

PLAN OF THE TESTS

Number of hybrids and their sources. In 1960, 425 hybrids were grown in 13 major tests at ten locations in the state. Fifty-six companies and individuals, as well as the Illinois Agricultural Experiment Station, furnished seed for the tests.

Test fields were located at the same places as in 1957, 1958, and 1959. General information on the tests is summarized in Table 1.

Representatives of the Illinois Station collected seed for planting the test fields. Seed was obtained directly from warehouses or seed supplies of the producers entering the respective hybrids. Seed of certain open-pedigreed hybrids was furnished by the Illinois Station.

Selection of entries. Each year producers of hybrid seed corn are given an opportunity to nominate hybrids for testing in the various performance trials. A fee is charged for testing the hybrids nominated. For the past several years, all hybrids nominated by the closing date for entries have been accepted and tested in the performance test plots.

Occasionally experimental hybrids are nominated by commercial seed firms for inclusion in the performance testing program. These have been accepted and tested in the same manner as commercially available hybrids. Experimental hybrids and standard open-pedigree hybrids produced by the Illinois Station also are included in certain of the tests. The performance of additional experimental hybrids in 1960 and preceding years is reported in Illinois Bulletin 669.

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[1] Earl R. Leng, Professor of Agronomy; G. L. Ross, Crops Testing Technician.

[2] Estimates of yield for the state were furnished by the Illinois Cooperative Crop Reporting Service, Illinois State Department of Agriculture, cooperating with the U. S. Department of Agriculture.

Table 1. — GENERAL INFORMATION: Illinois Commercial Hybrid Corn Tests, 1960

Field, county, location, and number of entries	Date planted	Date harvested	Average acre yield	Moisture in grain	Erect plants	Stand
Regular planting rate			*bu.*	*perct.*	*perct.*	*perct.*
Woodstock: McHenry, Ex. N, 72	May 15	Oct. 29	81.2	23.4	90.9	92.1
DeKalb: DeKalb, N, 100........	May 24	Nov. 4	104.8	27.1	91.8	91.7
Galesburg: Knox, WNC, 132....	June 1	Oct. 27-28	106.6	26.5	90.6	90.1
Ashkum: Iroquois, ENC, 90.....	May 31	Nov. 15	74.6	22.5	89.8	89.4
Bowen: Hancock, WC, 72.......	June 1	Oct. 25	94.1	22.3	91.3	88.4
Stanford: McLean, C, 100.......	May 12	Oct. 6	112.7	22.1	97.0	94.2
Urbana: Champaign, EC, 121....	May 18	Nov. 14	106.5	19.9	91.6	94.3
Greenfield: Macoupin, WSC, 72..	June 2	Oct. 22	85.6	22.6	92.5	86.9
Brownstown: Fayette, S, 72.....	June 9	Nov. 19	Field was discarded			
Wolf Lake: Union, Ex. S, 64.....	May 10	Oct. 4	76.0	19.3	94.6	86.2
Increased planting rate						
DeKalb: DeKalb, N, 56.........	May 24	Nov. 4	103.2	29.2	88.2	88.2
Urbana: Champaign, EC, 64.....	May 18	Nov. 14	93.3	20.2	78.0	91.4
Greenfield: Macoupin, WSC, 42..	June 2	Oct. 22	87.4	22.7	94.7	81.1

COOPERATORS: EARL HUGHES, *McHenry county*; RALPH ANDERSON, *Knox county*; MELVIN KRAFT, *Iroquois county*; ELDON GOLDEN, *Hancock county*; ROBERT BUTH, *McLean county*; CHARLES ROSS, *Macoupin county*; EARL SCHWARM, *Fayette county*; SHAWNEE HIGH SCHOOL, *Union county*. Tests in DeKalb and Champaign counties were located on University of Illinois farms managed by R. E. BELL and C. H. FARNHAM. P. E. JOHNSON, Assistant Professor of Soil Fertility, supervised field operations on the test in *Fayette county*, and D. R. BROWNING supervised field operations on the *Union county* test field.

Soil characteristics of fields. The test fields usually are medium to high in productivity, and each is chosen to represent a soil type common to the region where it is located. Insofar as possible, each field is selected for uniformity in soil type, productivity, and drainage. Approximate locations of test fields are shown on the map on the cover. Soil characteristics and management are described in Table 2.

Field-plot design. The experimental designs used were randomized blocks, or lattice designs of the appropriate size, with three replications each. Data were recorded on mark-sense cards and were processed by a combination of procedures on IBM equipment.

Method of planting. All test fields were planted by machine on land prepared in the normal way for corn. All test plots except those at DeKalb, Urbana, and Brownstown were part of larger cornfields and were surrounded by farmers' corn. Individual plots consisted of one row, 11 hill-spaces long. Planting simulated "power checking," with one, two, or three kernels being dropped each 20 inches, depending on the planting rate desired. A planting rate of 14,000 plants per acre was used at Brownstown. At Woodstock, Wolf Lake, Ashkum, Bowen, and Stanford and in the "regular rate" tests at DeKalb, Urbana, and Greenfield the planting rate was 16,000 plants per acre. Galesburg was planted at 18,000 plants per acre. For the "increased planting rate" tests, the rates were 24,000 per acre at DeKalb and Urbana, and 20,000 at Greenfield. The plots were not thinned.

Method of harvest. All plots were mechanically harvested with a slightly modified Ford one-row picker-sheller. The shelled corn from each plot was collected in a bag, weighed, and sampled for moisture percentage. No attempt was made to glean missed or dropped ears or to estimate the shelled corn lost in the harvesting operations.

GROWING CONDITIONS

The 1960 growing season was exceptionally favorable throughout the state, except that excessive moisture delayed planting in some

Table 2. — TEST FIELDS: Soil Characteristics, Management Practices, and Rainfall in 1960

Soil type	Lime requirement	Available phosphorus	Available potassium	Previous crops and rainfall
				Extreme Northern: Woodstock
Proctor silt loam	0	High	High	Corn 1959; alfalfa 1958; alfalfa 1957. Rainfall (inches): May 5.6; June 3.9; July 3.0; August 2.3.
				Northern: DeKalb
Flanagan silt loam	0	Medium	High	Clover 1959; oats and clover 1958; corn 1957. Rainfall (inches): May 6.2; June 4.1; July 4.8; August 3.0.
				West North-Central: Galesburg
Sable silty clay loam	2	Medium	High	Alfalfa 1959; alfalfa 1958; oats 1957. Rainfall (inches): May 6.1; June 5.8; July 2.2; August 5.4.
				East North-Central: Ashkum
Milford clay loam	2	Medium	High	Clover 1959; oats and clover 1958; soybeans 1957. Rainfall (inches): May 3.1; June 5.0; July 1.1; August 5.1.
				West-Central: Bowen
Virden silty clay loam	0	High	High	Corn 1959; alfalfa 1958; alfalfa 1957. Rainfall (inches): May 6.8; June 8.6; July 3.7; August 5.0.
				Central: Stanford
Muscatine silt loam	0	Medium	High	Alfalfa 1959; Alfalfa 1958; alfalfa 1957. Rainfall (inches): May 3.6; June 8.3; July 4.8; August 2.2.
				East-Central: Urbana
Brenton silt loam	0	Medium	Low	Corn 1959; alfalfa 1958; alfalfa 1957. Rainfall (inches): May 4.1; June 6.2; July 2.8; August 1.3.
				West South-Central: Greenfield
Herrick silt loam	2	Medium	High	Corn 1959; wheat 1958; soybeans 1957. Rainfall (inches): May 4.1; June 4.2; July 3.1; August 2.1.
				Southern: Brownstown
Cisne silt loam	0	Medium	Low	Oats and clover 1959; corn 1958; oats and clover 1957. Rainfall (inches): May 5.9; June 7.2; July 1.8; August 2.2.
				Extreme Southern: Wolf Lake
Riley fine sandy loam	0	High	High	Corn 1959; corn 1958; corn 1957. Rainfall (inches): May 3.9; June 3.5; July 2.8; August 4.6.

localities and spread the planting operations over about 4 weeks. On some fields the planting was halted because of heavy rains, and the last planting was not finished until the second week in June. Immediately following the planting at Brownstown and Galesburg, more than 2 inches of rainfall packed the seedbeds and materially reduced the stands. Moisture and temperature conditions were generally favorable for the entire state from June through August. The Ashkum field suffered a little from the drouth that prevailed in that area. August was a warm humid month throughout the state, favoring development of the crop, but also providing favorable conditions for the development of Helminthosporium leaf blight, and certain stalk rot diseases. The most severe epidemic was noted this year at the Woodstock field. Fortunately the corn crop was well along in its development by the time leaf blight became widespread, and actual reduction in yield was not severe.

Maturity was slow because of a wet September and October, and moisture percentage in the grain was about 3 percent above that for 1959. Only the Urbana test was at a normal moisture percent at harvest, but the test was severely lodged, especially in the high-population planting, and reduced yields were noted on a number of hybrids.

MEASURING PERFORMANCE

The entries of the 1960 tests are listed in the tables in alphabetical order. It is hoped that this arrangement will reduce the emphasis often placed on yield alone, and that it will call attention to the importance of more than a single year's observations.

Yield of grain. In all tests the total acre yield was calculated as shelled corn containing 15.5 percent moisture, the upper limit allowable for No. 2 corn. Shelled-corn weight and moisture percentage were determined for each plot of each hybrid. All moisture determinations were made with a Radson moisture tester.

Erect plants. The count of erect plants in each plot of each hybrid was taken at the time of harvest of the respective test field. Plants leaning at an angle of 45° or more or broken below the ear were considered lodged. Plants broken only above the ear were considered to be erect.

Stand. A count was made in late summer at all fields of the number of missing plants in each plot of each entry. The percent stand was computed by comparing the actual number of plants in each plot with the number that would have been present if all kernels planted had produced mature plants. Stand differences may have been caused by failure of germination or by disease, insect damage, or cultivation injury.

The following should be kept in mind when comparing the performance of hybrids on any one field:

1. Tests covering several years (see first part of data tables) give more reliable results than those covering only one year. Therefore special attention should be given to the summaries covering three or five years' results. However, the fact that a hybrid does not appear in the summaries should not be overemphasized, since its absence may mean that 1960 was the first year in which it was tested or that it missed only one year of the series.

2. Small differences, especially in a single year's test, do not necessarily indicate that one hybrid is truly superior to another. Interpretation of the data and comparison of hybrids may be made more meaningful by use of the "difference necessary for significance" appearing at the bottom of each table. These differences have been computed by the "Multiple Range test."[1] To find the difference necessary for the 5-percent level of significance in comparing any two or more hybrids, the hybrids must be listed in order of their performance for the particular character being considered (they are now listed alphabetically in the 1960 results and ranked by yield in the summaries). Then the number of hybrids being compared plus the number falling between them on this ranking list should be counted. The total will be the "number in range." Once the "number in range" has been determined, the corresponding "difference necessary for significance" can be read from the table.

CONTRIBUTORS OF SEED

AES Hybrids	George Pfeifer Seed Co.	Arcola
Abbott Hybrids	John R. Abbott	Walnut
Ainsworth Hybrids	Ainsworth Seed Co.	Mason City
Appl Hybrids	Appl's Hybrid Seed Co.	208 N. Main St., St. Joseph
Bear Hybrids	Bear Hybrid Corn Co.	Box 628, Decatur
Canterbury Hybrids	C. E. Canterbury Seed Co.	Cantrall
Cargill Hybrids	Cargill, Inc.	200 Grain Exchange Bldg., Minneapolis 15, Minn.

[1] DUNCAN, D. B., "Multiple Range and Multiple F. Tests." *Biometrics* 11(1): 1-43. 1955.

Cornelius Hybrids	Cornelius Hybrid Corn Co.	Bellevue, Iowa
Crib Filler Hybrids	Mitchell Farms	Windfall, Ind.
DeKalb Hybrids	DeKalb Agriculture Assn., Inc.	310 N. 5th St., DeKalb
Doubet Hybrids	E. W. Doubet	Hanna City
Embro Hybrids	Ed. F. Mangelsdorf and Bros., Inc.	1020 S. 4th St., P.O. Box 327, St. Louis 66, Mo.
Forster Hybrids	Forster Seed Co.	Donnellson, Iowa
Frey Hybrids	Frey Hybrid Corn Co., Inc.	Gilman
Holmes Hybrids	Holmes Hybrids, Inc.	Edelstein
Illinois Hybrids	Illinois Agr. Exp. Station	Urbana
	George Pfeifer Seed Co.	Arcola
	Stone Seed Co.	Pleasant Plains
Indiana Hybrids	Illinois Agr. Exp. Station	Urbana
	Princeton Farms	P. O. Box 319, Princeton, Ind.
Jones Hybrids	Jones Farm Store	Ridgeway
McAllister Hybrids	McAllister Seed Farms	Mt. Pleasant, Iowa
Middlekoop Hybrids	John Middlekoop	Packwood, Iowa
Moews Hybrids	Moews Seed Co.	Granville
Monier Hybrids	Roger Monier	Sparland
Morton Hybrids	Roy A. Morton and Sons, Inc.	Bowen
Mountjoy Hybrids	Mountjoy Hybrid Seed Co.	Atlanta
Muncy Chief Hybrids	Hoffman Seed and Grain Co.	Muncy, Pa.
Munson Hybrids	Munson Hybrids	R. R. 3, Galesburg
Nichols Hybrids	Nichols Bros.	Hebron
Northrup King Hybrids	Northrup King and Co.	1500 Jackson N.E., Minneapolis 13, Minn.
Null Hybrids	Null Seed Farms	R. F. D. 1, Colchester
Pfeifer Hybrids	George Pfeifer Seed Co.	Arcola
P.A.G. Hybrids	Pfister Assoc. Growers, Inc.	W. Galena Road, Aurora
Pioneer Hybrids	Pioneer Hi-Bred Corn Co. of Illinois	Princeton
Plymouth Hybrids	Bruns Bros. Seed Co.	Camp Point
Pocklington Hybrids	Pocklington Bros.	So. Standard City
Prairie Gold Hybrids	Dittmer Seeds	Carthage
Princeton Hybrids	Princeton Farms	P.O. Box 319, Princeton, Ind.
Robe Hybrids	Robe Hybrid Corn Co.	Smithshire
Schenk's Hybrids	Charles T. Schenk and Sons, Inc.	Vincennes, Ind.
Schwenk's Hybrids	Schwenk Seed Co.	Edwards
Sieben Hybrids	Sieben Hybrids	Geneseo
Steckley Hybrids	Steckley Hybrid Corn Co.	2416 N. St., Lincoln, Neb.
Stewart Hybrids	Stewart Hybrids Inc.	Princeville
Stiegelmeier Hybrids	H. L. Stiegelmeier	1400 Mark Lane, Normal
Stone Hybrids	Stone Seed Co.	Pleasant Plains
Stull Hybrids	Stull Bros., Inc.	Sebree, Ky.
Super-Crost Hybrids	E. J. Funk and Sons	Kentland, Ind.
Tiemann Hybrids	Tiemann Tested Hybrid Corn Co.	917 E. Oakland Ave., Bloomington
Todd Hybrids	W. H. Todd and Sons	Burlington, Ind.
Tomco Hybrids	Tomco Inc.	Belmond, Iowa
Trisler Hybrids	Trisler Seed Farms Inc.	Fairmount
Troyer Hybrids	C. E. Troyer	R. R. 1, La Fontaine, Ind.

United-Hagie Hybrids	United-Hagie Hybrids, Inc.	503 Park Street, Des Moines 9, Iowa
Van Horn Hybrids	Van Horn Hybrids, Inc.	Cerro Gordo
Victor Hybrids	Polo Seed Co.	Polo
Whisnand Hybrids	Whisnand Hybrid Corn Co.	R. R. 3, Arcola
Wyckoff's Hybrids	Wyckoff's Hybrid Corn Co.	R. R. 3, Valparaiso, Ind.
Wyffels Hybrids	William Wyffels	P. O. Box 157, R. R. 1, Geneseo

PEDIGREES OF 34 HYBRIDS

Following is a list of open-pedigree hybrids whose performance is shown in this bulletin:

AES 702	(WF9×Hy2)(C103×M14)
AES 805	(WF9×38-11)(C103×Oh45)
Ill. 274-1	(WF9×Hy2)(Oh7×187-2)
Ill. 1277	(WF9×M14)(187-2×I.205)
Ill. 1332	(WF9×38-11)(Hy2×Oh7)
Ill. 1349	(38-11×Mo.940)(K155×K201)
Ill. 1421	(WF9×Hy2)(P8×Oh7)
Ill. 1511	(WF9×Hy2)(38-11×L304A)
Ill. 1555A	(WF9×Oh51A)(I.224×Oh28)
Ill. 1570	(WF9×38-11)(Hy2×Oh41)
Ill. 1851	(C103×38-11)(Oh7×CI.21E)
Ill. 1919	(WF9×38-11)(R130×R156)
Ill. 1936	(WF9×Hy2)(M14×B14)
Ill. 1952	(M14×B14)(A545×W64A)
Ill. 1960	(W64A×M14)(B14×A545)
Ill. 1969A	(WF9×R165)(R168×B14)
Ill. 1992	(C103×B14)(WF9×Oh7A)
Ill. 1996	(Hy2×Oh7)(B14×C103)
Ill. 2214W	(R30×Ky27)(H21×K64)
Ill. 3042	(WF9×B14)(B40×Oh45)
Ill. 3152	(WF9×M14)(B14×Oh43)
Ill. 3182A	(WF9×R105)(R151×R154)
Ill. 3302A-1	(W64A×M14)(B14×R172)
Ill. 3315A	(WF9×Hy2)(R109B×B14)
Ill. 3343	(R71×R74)(H49×H55)
Ill. 3347	(R74×R101)(H49×H55)
Ill. 3348	(R74×R109B)(H49×H55)
Ill. 3360	(R101×Oh41)(H49×H51)
Ill. 6201	(R53×Oh7)(WF9×B14)
Ill. 6202	(R53×Oh51)(Oh43×W64A)
Ill. 8001	(Hy2×R138)(Oh7×Oh7B)
Ill. 8006	(R158×CI.42A)(Oh7A×Oh7B)
Ind. 851	(H49×H55)(H59×B14)
Ind. 909	(K64×K61)(H21×33-16)

Table 3. — EXTREME NORTHERN ILLINOIS: Woodstock

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960				
	bu.	*perct.*	*perct.*	*perct.*
Moews 500A	110.2	24.9	56.4	95.2
Pioneer 371	102.0	19.5	62.1	93.9
Pioneer 380	99.0	20.5	67.3	86.4
Moews 48A	99.0	22.7	70.7	91.5
P.A.G. 305 (formerly 8884)	99.0	23.1	74.4	92.7
Pioneer 354	98.5	22.1	67.0	87.9
Moews 14E	96.0	21.4	50.6	94.2
Hulting 242	96.0	23.3	73.8	81.6
P.A.G. 62	95.5	20.7	51.5	91.8
DeKalb 444	94.0	24.8	72.3	93.7
Steckley's Genetic Giant 1	93.8	19.6	67.0	86.8
P.A.G. 323	93.8	24.0	55.6	92.9
P.A.G. 234	93.7	22.5	61.6	93.6
DeKalb 411	93.3	21.1	65.1	89.9
DeKalb 414	92.8	22.4	62.7	90.3
DeKalb 423	91.6	24.4	58.9	93.5
Nichols NB43	91.0	22.1	63.1	89.0
Northrup King KT6	90.8	22.8	57.7	89.0
Moews 14DR	90.1	21.0	59.5	93.3
Steckley's Genetic Giant 4	89.2	20.8	71.6	86.2
Northrup King KT	89.2	22.6	56.5	88.4
Illinois 1555A (Station)	88.8	21.5	60.5	91.4
Illinois 1960 (Station)	86.8	21.2	64.0	94.5
Nichols NB53	86.5	20.8	54.2	90.9
Illinois 1277 (Station)	81.6	22.1	53.8	87.1
Average of all entries	**93.7**	**22.1**	**62.3**	**90.6**
Number in range	Difference necessary for significance			
2	12.9	2.5	N.S.	N.S.
3-5	14.4	2.8	N.S.	N.S.
6-10	15.3	3.0	N.S.	N.S.
Over 10	16.2	3.2	N.S.	N.S.
SUMMARY: 1959-1960				
Moews 500A	113.5	25.0	76.4	94.5
DeKalb 400	107.2	22.9	58.6	85.8
Moews 48A	100.7	23.8	82.0	91.0
Hulting 242	100.6	21.8	76.3	87.4
Cornelius 404B	100.5	22.0	73.8	93.7
DeKalb 440	100.4	23.9	78.9	90.7
P.A.G. 305 (formerly 8884)	99.4	24.1	76.9	94.0
Pioneer 371	99.0	20.8	75.5	95.9
Hulting 238	97.8	22.3	57.3	95.2
Pioneer 354	97.7	22.6	70.9	92.7
Pioneer 380	97.6	20.9	69.6	93.9
DeKalb 444	97.2	23.6	81.3	95.2
Pioneer 352	97.0	22.0	61.8	94.7
Moews 14E	96.5	22.4	61.8	95.1
Cargill 180	96.4	22.8	68.1	85.2
Northrup King KT	95.1	21.2	62.3	92.7
Northrup King KT6	94.9	24.0	64.7	91.0
Nichols NB43	94.5	22.8	63.3	90.7
P.A.G. 62	94.0	21.1	64.8	94.4
DeKalb 423	93.4	23.5	62.9	92.8
P.A.G. 234	92.7	22.7	74.2	94.6
Hulting 245	91.3	22.0	72.4	92.6
Steckley's Genetic Giant 1	90.9	20.0	68.7	88.2
DeKalb 411	90.8	22.4	71.8	93.2
P.A.G. 323	90.8	23.2	67.5	96.0
DeKalb 414	90.4	22.7	70.8	90.5
Super-Crost 438	89.4	22.4	72.1	92.2
Steckley's Genetic Giant 4	87.8	21.4	74.2	90.6
Nichols NB63	86.8	22.5	76.4	92.9
Moews 14DR	86.7	22.4	62.1	95.8
Illinois 1555A (Station)	86.0	22.1	64.8	94.3
Nichols NB53	85.0	21.4	60.3	92.2
Illinois 1960 (Station)	83.7	21.2	67.3	94.3
Illinois 1277 (Station)	71.9	23.2	57.4	94.1
Average of all entries	**94.0**	**22.4**	**69.0**	**92.6**
Number in range	Difference necessary for significance			
2	13.4	1.4	N.S.	N.S.
3-5	15.0	1.6	N.S.	N.S.
6-10	16.0	1.7	N.S.	N.S.
11-20	16.8	1.8	N.S.	N.S.
Over 20	17.1	1.8	N.S.	N.S.

(Table is concluded on next page)

Table 3. — Woodstock — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Abbott A2	86.2	24.9	95.8	87.8
Abbott A3	83.9	23.1	98.3	93.9
Cargill 180	83.3	23.7	83.0	86.3
Cargill 5929	91.0	25.2	93.8	87.1
Cornelius 404B	90.6	23.3	95.0	90.9
DeKalb 238	82.0	22.3	94.4	96.2
DeKalb 400	90.3	22.9	92.0	82.5
DeKalb 411	75.5	23.2	86.2	93.1
DeKalb 414	81.2	22.7	95.2	97.7
DeKalb 423	82.4	24.5	92.6	93.9
DeKalb 427	79.3	23.6	93.3	90.1
DeKalb 440	87.9	25.0	97.7	84.8
DeKalb 441	89.3	23.6	95.0	92.4
DeKalb 444	84.1	24.3	96.0	95.4
DeKalb 633	85.7	28.6	93.8	85.6
DeKalb 640	98.5	27.1	99.1	91.6
DeKalb A301	83.0	24.1	96.8	93.9
Embro 44XE	88.8	25.9	91.5	97.7
Hulting 238	86.2	23.1	87.6	94.6
Hulting 242	78.9	22.4	91.5	84.0
Hulting 245	78.1	22.9	92.3	87.8
Hulting 260SC	84.4	23.9	90.3	92.4
Illinois 1277 (Station)	73.9	24.0	89.3	92.4
Illinois 1555A (Station)	72.4	22.9	92.4	96.9
Illinois 1952 (Station)	88.8	23.2	92.7	94.6
Illinois 1960 (Station)	71.3	21.9	83.0	96.2
Illinois 1969A (Station)	70.0	24.9	92.7	93.1
Illinois 3302A-1 (Station)	73.0	23.5	97.5	91.6
Illinois 6201 (Station)	69.1	23.3	77.0	95.4
Illinois 6202 (Station)	78.1	20.3	89.2	92.4
Moews 14DR	76.1	23.3	85.5	99.2
Moews 14E	84.9	22.4	85.9	97.7
Moews 48A	79.1	25.1	96.2	87.1
Moews 500A	93.6	26.0	94.3	93.1
Moews 5093	82.0	22.8	90.4	95.4
Nichols NB43	83.3	23.8	89.2	85.6
Nichols NB53	70.5	22.2	86.7	87.8
Nichols NB63	71.9	24.0	99.0	91.6
Northrup King KT	72.8	20.8	88.4	87.1
Northrup King KT6	74.8	25.3	88.2	87.8
Northrup King KT628	81.8	27.4	83.5	93.1
P.A.G. 62	76.8	20.6	80.6	93.9
P.A.G. 234	82.7	22.9	86.9	98.4
P.A.G. 285	79.7	24.5	91.6	99.2
P.A.G. 305 (formerly 8884)	91.1	25.3	98.3	93.1
P.A.G. 323	80.0	24.1	91.9	95.4
P.A.G. Exp. 15024	67.5	23.2	76.5	90.1
P.A.G. Exp. 15026	86.4	23.1	80.8	93.9
P.A.G. SX9 (formerly Exp. 15009)	76.2	22.7	89.1	87.8
Pioneer 329	80.6	24.4	96.9	98.4
Pioneer 352	83.2	23.0	90.6	96.2
Pioneer 354	81.0	23.3	89.0	94.6
Pioneer 371	83.4	21.2	91.3	97.7
Pioneer 380	88.1	21.8	90.0	96.9
Pioneer 4055	83.3	21.8	96.8	87.1
Pioneer 6670	94.7	22.6	91.7	93.1
Pioneer 6707	96.5	23.1	93.7	95.4
Steckley's Genetic Giant 1	72.1	19.6	92.9	84.8
Steckley's Genetic Giant 4	77.9	21.6	88.7	87.8
Steckley's Genetic Giant 10	80.4	24.2	96.7	92.4
Stewart S-94	77.4	24.2	91.7	86.3
Super-Crost 214	73.6	21.3	83.9	94.6
Super-Crost 438	69.9	23.3	85.6	87.8
Tomco 449	79.3	23.7	89.8	96.9
Average of all entries	81.2	23.4	90.9	92.1
Number in range	Difference necessary for significance			
2	13.2	2.3	8.3	N.S.
3-5	14.7	2.5	9.3	N.S.
6-10	15.7	2.7	9.9	N.S.
11-20	16.5	2.8	10.4	N.S.
Over 20	17.2	3.0	10.9	N.S.

Table 4. — NORTHERN ILLINOIS: DeKalb

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	bu.	*perct.*	*perct.*	*perct.*
Hulting 242	113.9	23.6	97.4	94.5
Wyffels W-600	112.6	26.1	96.8	90.1
Wyckoff's W-20	112.4	25.7	96.5	89.2
Steckley's Genetic Giant 10	112.1	25.0	92.8	87.2
Frey 410	110.0	23.7	94.6	88.9
DeKalb 414	108.4	23.3	95.1	88.8
P.A.G. 234	107.7	22.5	94.9	88.7
Sieben S-340	107.4	23.7	93.7	92.5
Pioneer 345	107.2	22.7	93.0	89.8
DeKalb 459	107.0	22.8	89.4	89.7
Hulting 481	106.9	25.0	94.4	89.0
P.A.G. 323	106.6	25.0	94.0	90.3
Nichols NB43	106.4	24.2	93.6	91.3
Super-Crost 440	105.9	24.0	88.8	90.0
Hulting 238	105.1	22.5	91.5	90.4
Sieben S-440E	105.1	24.4	89.3	86.0
Sieben S-560	104.9	23.4	93.5	87.3
Wyckoff's W-25A	102.6	26.4	94.7	88.2
Sieben S-440	101.6	24.1	94.1	87.2
Average of all entries	**107.6**	**24.1**	**93.6**	**89.4**
Number in range	Difference necessary for significance			
2	**N.S.**	1.5	**N.S.**	**N.S.**
3-5	**N.S.**	1.6	**N.S.**	**N.S.**
6-10	**N.S.**	1.7	**N.S.**	**N.S.**
11-19	**N.S.**	1.8	**N.S.**	**N.S.**
SUMMARY: 1958-1960				
Moews CB65A	115.4	27.1	95.0	93.1
Northrup King KT6	112.2	27.7	92.4	91.9
Troyer L13	110.8	28.0	95.5	93.6
Pioneer 329	110.7	26.0	79.0	97.6
Wyffels W-600	110.6	28.9	92.7	94.6
Moews 500A	110.5	28.6	92.3	91.2
Moews 48A	110.0	27.6	95.7	93.3
Hulting 242	109.1	25.7	96.9	95.1
DeKalb 633	108.3	29.8	90.2	92.2
Steckley's Genetic Giant 10	107.6	27.6	91.0	89.6
Frey 410	107.5	25.6	94.7	96.2
Wyffels W-495	107.3	25.8	96.1	90.0
Sieben S-340	106.0	25.4	91.9	96.2
Wyckoff's W-20	106.0	28.2	95.9	89.9
DeKalb 414	105.7	25.1	91.8	92.3
Hulting 482	105.4	28.7	98.2	92.4
P.A.G. 305 (formerly 8884)	103.9	26.9	94.0	93.0
Sieben S-440E	103.6	25.8	87.1	88.9
Hulting 481	103.3	27.1	92.3	93.0
DeKalb 640	103.0	31.1	96.5	93.9
Steckley's 18	102.8	27.3	85.1	93.1
United-Hagie WW40	102.8	27.6	93.4	88.4
Troyer M11T	102.1	29.3	91.3	92.0
Sieben S-360	102.0	27.7	89.9	91.9
Troyer M18	101.9	27.4	96.8	91.0
Troyer M12T	101.8	30.2	95.9	90.6
DeKalb 444	101.6	26.9	90.7	96.9
DeKalb 459	100.6	24.4	87.1	92.0
Tiemann T-62	100.4	27.8	91.4	91.7
Super-Crost 440	99.9	26.5	84.4	93.7
Hulting 238	99.8	24.9	91.5	89.6

(Table is continued on next page)

Table 4. — DeKalb — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960 — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Wyckoff's W-25A	99.6	28.0	92.4	93.5
Troyer M17T	98.8	29.6	95.6	91.0
P.A.G. 234	98.6	24.1	93.1	90.3
Pioneer 345	98.6	25.4	92.7	92.2
Hulting 484	98.0	27.1	90.0	87.8
Sieben S-320	97.8	27.0	92.9	92.8
Sieben S-560	97.5	25.3	91.2	89.4
P.A.G. 323	97.5	27.6	93.3	92.4
Troyer M13T	95.6	27.5	95.0	93.9
Sieben S-440	95.3	26.7	91.5	87.9
Super-Crost 438	94.4	26.7	89.8	85.5
Steckley's Genetic Giant 1	94.2	23.4	87.8	93.9
Nichols NB43	93.5	26.6	91.6	90.1
Nichols NB53	83.1	23.2	83.6	89.0
Average of all entries	**102.6**	**27.0**	**92.4**	**92.0**
Number in range	Difference necessary for significance			
2	**10.8**	**2.3**	**6.0**	**N.S.**
3-5	**12.0**	**2.5**	**6.7**	**N.S.**
6-10	**12.8**	**2.7**	**7.1**	**N.S.**
11-20	**13.5**	**2.8**	**7.5**	**N.S.**
Over 20	**14.0**	**2.9**	**7.8**	**N.S.**
1960 RESULTS				
Abbott A1	107.8	26.9	96.7	92.4
Abbott A2	113.1	28.4	97.5	89.3
Abbott A3	113.2	29.0	95.2	93.1
Abbott A4	118.0	28.2	86.3	87.8
Abbott A5	118.1	27.5	97.7	98.4
Bear Unicorn X600	98.0	24.3	79.9	87.1
Cargill 256	96.4	24.9	85.8	91.6
Cargill 270	92.6	25.0	89.9	90.1
Cornelius C45	102.1	27.6	95.0	90.9
Cornelius C75	108.9	28.6	94.7	85.6
DeKalb 400	123.7	25.9	96.5	88.6
DeKalb 414	114.8	26.1	90.4	94.6
DeKalb 427	96.8	26.2	95.7	89.3
DeKalb 440	108.1	27.3	92.4	100.0
DeKalb 441	115.3	27.6	94.5	96.2
DeKalb 444	101.0	27.3	92.1	97.7
DeKalb 459	103.4	25.4	91.2	94.6
DeKalb 633	105.9	29.2	87.5	90.1
DeKalb 640	116.3	32.1	97.6	94.6
DeKalb A301	99.1	25.4	92.3	87.1
DeKalb A506 (formerly X4008)	110.4	27.3	95.1	92.4
DeKalb X72-076	98.7	29.1	79.0	90.9
Frey 410	100.3	25.7	96.1	99.2
Holmes 47E	110.5	28.1	92.6	93.1
Hulting 238	95.7	24.6	85.5	93.9
Hulting 242	112.3	25.7	96.8	95.4
Hulting 245	98.2	25.4	91.1	90.9
Hulting 260SC	119.9	26.6	90.3	96.9
Hulting 471	93.8	28.1	93.3	90.1
Hulting 481	95.5	27.6	93.0	85.6
Hulting 482	113.1	29.4	96.7	93.9
Hulting 484	105.4	28.1	91.2	83.3
Moews 48A	111.9	27.4	94.2	93.1
Moews 500A	112.4	30.6	94.0	91.6
Moews 505A	100.6	26.2	96.1	100.0
Moews CB65A	127.2	27.7	94.1	90.1
Monier 6-M-6	108.4	26.7	89.6	94.6
Nichols NB43	92.5	26.4	93.8	87.1
Nichols NB53	80.2	22.9	75.8	90.9
Nichols NB63	113.5	23.8	93.7	95.4

(Table is concluded on next page)

Table 4. — DeKalb — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Northrup King KT6	117.3	30.4	93.6	96.9
Northrup King KT628	111.0	30.3	96.8	94.6
Northrup King KT632	94.6	27.8	93.4	83.3
P.A.G. 234	101.8	24.7	88.3	91.6
P.A.G. 285	110.3	25.7	99.2	97.7
P.A.G. 305 (formerly 8884)	109.4	26.1	95.9	93.9
P.A.G. 323	97.1	27.1	90.0	90.9
P.A.G. Exp. 11549	119.3	29.1	93.8	99.2
P.A.G. Exp. 15018	111.6	25.0	97.4	90.9
P.A.G. Exp. 15024	70.0	22.8	77.1	89.3
P.A.G. Exp. 15026	104.2	26.5	91.6	87.8
P.A.G. SX9 (formerly Exp. 15009)	92.6	25.2	92.7	84.0
Pioneer 320	111.1	29.0	95.3	96.9
Pioneer 321 (formerly 4549)	110.3	29.1	94.6	98.4
Pioneer 329	108.6	26.7	96.0	96.9
Pioneer 345	99.2	26.1	94.0	89.3
Pioneer 354	93.6	26.4	39.3	89.3
Pioneer 371	106.5	19.7	92.9	95.4
Pioneer 5536	128.9	25.9	91.4	98.4
Pioneer 6707	110.2	25.6	94.8	87.8
Pioneer 80201	112.4	31.2	95.1	93.1
Sieben S-320	97.1	27.6	87.8	92.4
Sieben S-340	106.6	25.1	88.6	99.2
Sieben S-360	100.9	28.3	84.8	90.1
Sieben S-440	108.8	28.3	95.4	87.8
Sieben S-440E	115.9	26.1	89.4	86.3
Sieben S-560	96.9	24.7	95.6	88.6
Sieben S-580	118.5	27.6	97.6	98.4
Steckley's Genetic Giant 10	105.1	28.5	94.3	93.1
Steckley's 18	101.8	27.2	78.4	90.1
Steckley's Genetic Giant 1	89.4	22.3	86.1	93.9
Stewart S-66B	106.4	28.7	97.2	81.0
Super-Crost 438	90.8	26.8	87.4	84.0
Super-Crost 440	106.0	25.9	77.1	90.9
Super-Crost 441	104.3	27.2	89.8	82.5
Super-Crost 470	112.3	27.6	90.2	93.9
Super-Crost S4	97.6	24.0	89.5	89.3
Super-Crost S5	82.1	26.1	86.9	92.4
Tiemann T-62	97.6	28.8	91.2	94.6
Tomco 619	106.7	28.5	94.3	93.9
Troyer E8T	105.4	26.8	94.9	88.6
Troyer E14T	99.2	29.1	87.9	87.8
Troyer E63T	89.6	25.2	90.7	91.6
Troyer L13	120.5	27.9	93.6	94.6
Troyer M3T	97.3	29.1	97.4	93.1
Troyer M11T	101.9	30.1	92.8	86.3
Troyer M12T	107.3	30.0	92.8	91.6
Troyer M13T	98.6	27.7	91.9	93.9
Troyer M17T	102.3	29.3	95.7	88.6
Troyer M18	117.6	26.3	95.3	96.9
United-Hagie WW40	96.3	28.9	96.3	84.0
United-Hagie X138	93.1	24.4	94.0	88.6
United-Hagie X140	112.6	23.8	89.6	93.1
Victor 368	93.9	26.9	87.2	88.6
Victor 369	94.0	27.6	83.7	92.4
Wyckoff's W-15	106.0	28.1	91.7	90.1
Wyckoff's W-20	104.0	29.0	94.7	84.8
Wyckoff's W-25A	103.2	29.3	88.3	97.7
Wyffels W-495	109.5	26.6	91.3	89.3
Wyffels W-600	114.0	29.0	95.0	92.0
Average of all entries	**104.8**	**27.1**	**91.8**	**91.7**
Number in range	Difference necessary for significance			
2	18.7	2.8	8.1	9.2
3-5	20.9	3.2	9.0	10.2
6-10	22.3	3.4	9.6	10.9
11-20	23.5	3.5	10.1	11.5
Over 20	24.8	3.7	10.7	12.2

Table 5. — WEST NORTH-CENTRAL ILLINOIS: Galesburg

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	bu.	*perct.*	*perct.*	*perct.*
DeKalb 805	131.8	21.2	87.5	87.9
Schwenk S34	127.6	20.3	86.4	93.2
Null 83	127.6	21.2	84.6	91.8
Moews 524	126.7	21.6	89.5	91.2
Moews 520	126.5	20.6	81.6	89.5
Whisnand 852	125.4	22.2	88.9	91.2
Van Horn V.H.101	124.9	21.6	87.3	92.7
Munson M-15	124.0	19.9	90.0	89.9
Pioneer 329	123.0	19.3	90.5	93.4
Pioneer 316	122.8	20.3	90.0	93.2
Whisnand 830	122.8	21.0	90.1	89.3
Tiemann T-68	122.7	19.7	86.9	90.0
Moews 524A	122.1	21.7	88.1	91.5
DeKalb 820	121.4	21.1	82.3	89.4
Appl A-130	120.8	20.5	82.6	89.2
Robe 30	120.0	21.6	83.8	83.0
Troyer M11T	119.4	20.7	91.9	89.8
Tiemann T-78	117.7	20.8	81.6	92.1
Hulting 242	117.5	19.5	87.5	87.4
Troyer L14T	117.5	20.9	90.4	90.8
Hulting 481	117.0	20.0	89.1	88.7
Sieben S-320	115.1	20.4	84.8	89.1
Holmes 39	114.4	22.7	80.2	89.1
Sieben S-340	112.8	20.3	79.4	86.9
Sieben S-360	111.5	20.7	78.6	89.7
Troyer M13T	108.9	20.0	90.8	88.7
Average of all entries	**120.8**	**20.8**	**86.3**	**90.0**
Number in range	Difference necessary for significance			
2	11.2	1.4	N.S.	5.2
3-5	12.5	1.6	N.S.	5.8
6-10	13.4	1.7	N.S.	6.2
11-20	14.1	1.8	N.S.	6.5
Over 20	14.6	1.9	N.S.	6.7
SUMMARY: 1958-1960				
DeKalb 805	138.4	22.6	93.8	87.7
Bear Unicorn X600	132.8	21.6	50.3	85.7
McAllister IVX1001A	131.4	21.1	96.8	88.3
Moews 524	131.0	22.8	87.6	92.6
Forster F44	130.7	23.1	88.9	89.8
Null N-83	129.4	23.1	87.0	93.6
Forster F33	128.4	23.0	86.5	89.4
Frey F57	128.3	22.3	89.0	90.9
P.A.G. 415	128.2	22.5	82.1	90.3
Holmes 47	127.6	21.6	85.6	92.3
Bear Ok878	126.7	22.0	88.7	91.2
Whisnand 852	126.2	22.8	83.8	90.9
Van Horn V.H. 101	124.3	22.6	83.0	92.8
Moews 520	123.4	22.1	85.3	90.0
Appl A-130	123.3	21.7	76.9	91.7
Stewart S-65	123.2	22.4	85.4	91.3
Schwenk S34	123.1	21.4	85.4	94.3
McAllister 13A	122.1	22.7	87.8	87.0
Pioneer 319	121.8	21.5	87.2	92.5
Moews 524A	121.8	23.3	87.8	91.2
DeKalb 3x1	121.5	21.3	78.3	94.7
Moews CB69A	121.4	22.3	78.3	93.1
Whisnand 830	121.1	22.2	95.6	88.1
Pioneer 329	121.0	19.7	91.2	95.3
Troyer M11T	120.8	21.3	90.8	92.7
Pioneer 316	120.5	21.2	91.4	93.9
Monier 6-M-6	120.3	21.5	86.3	91.1
Forster F25	120.1	22.0	88.1	90.2
Tiemann T-68	119.9	20.1	83.5	88.3
Forster F56	119.7	23.1	87.7	87.3
DeKalb 820	119.6	21.9	76.5	89.0
Munson M-15	118.8	21.2	81.7	90.4

(Table is continued on next page)

Table 5. — Galesburg — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960 — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Prairie Gold D-791 (Dittmer)	118.6	20.3	92.6	90.7
Wyffels W-600	118.1	21.0	87.9	91.5
Tiemann T-78	117.7	22.0	79.3	92.3
Ainsworth X-97	117.7	22.4	93.8	89.0
DeKalb 640	117.7	22.6	90.7	88.0
DeKalb 633	117.4	22.6	90.0	87.2
DeKalb 812	117.4	23.4	90.8	90.0
DeKalb 803A	117.2	23.7	76.1	93.1
Robe 30	116.1	23.5	79.7	80.8
Holmes 39	116.0	23.8	75.0	91.3
United-Hagie U.H. 52B	115.9	21.3	86.9	90.5
Frey 892	115.4	20.6	81.7	89.3
United-Hagie U.H. WW50	115.0	22.4	86.0	88.1
Steckley's Genetic Giant 13	114.7	21.2	88.4	88.0
Troyer M9A	113.5	22.7	86.2	92.5
Hulting 482	113.4	21.3	89.1	90.6
Troyer L14T	112.3	22.1	87.1	92.7
Sieben S-320	111.4	21.0	82.6	88.8
Sieben S-340	109.3	21.0	75.0	86.2
Troyer L13	108.4	22.4	88.2	88.1
Sieben S-360	108.1	21.4	72.1	90.1
Hulting 481	106.7	21.6	90.8	87.5
Hulting 242	106.3	20.5	88.2	86.0
Troyer M13T	101.5	21.2	87.9	87.9
Average of all entries	**119.9**	**22.0**	**85.2**	**90.1**
Number in range	Difference necessary for significance			
2	12.5	1.9	8.5	N.S.
3-5	14.0	2.2	9.5	N.S.
6-10	14.9	2.3	10.1	N.S.
11-20	15.7	2.4	10.7	N.S.
Over 20	16.3	2.5	11.0	N.S.
1960 RESULTS				
Abbott A4	107.6	25.3	84.6	92.0
Abbott A5	94.4	28.5	92.2	72.6
Abbott A6	95.7	26.0	89.8	80.6
Ainsworth X-96	95.9	24.5	93.4	78.0
Ainsworth X-97	107.2	28.0	94.5	95.3
Ainsworth X-98	114.2	26.4	92.0	85.3
Ainsworth X-100	109.1	29.3	96.2	92.6
Appl A-130	104.5	26.0	83.8	95.3
Bear OK69	121.4	28.0	85.5	91.3
Bear OK96	133.8	27.2	91.7	98.0
Bear OK96A	112.8	27.7	91.1	84.0
Bear OK878	109.6	25.8	85.7	92.0
Bear Unicorn X600	124.0	26.5	89.5	94.0
Bear Unicorn X606	97.5	25.9	84.8	92.6
Cargill 285	84.5	24.3	98.4	74.0
Cargill 310	98.6	26.2	97.0	89.3
DeKalb 3x1	105.4	24.1	83.9	96.0
DeKalb 633	115.1	26.8	91.9	90.0
DeKalb 640	109.1	28.3	93.2	90.6
DeKalb 661	104.8	27.3	85.0	97.3
DeKalb 803	103.4	26.3	95.6	92.6
DeKalb 803A	101.0	27.1	87.4	96.0
DeKalb 805	130.5	25.1	96.3	90.6
DeKalb 812	108.5	28.3	94.5	96.6
DeKalb 820	95.6	26.5	72.5	85.3
DeKalb A504	108.3	27.3	97.6	86.0
DeKalb A703	124.1	30.6	96.4	96.0
DeKalb X91-005	111.6	27.8	94.0	90.0

(Table is continued on next page)

Table 5. — Galesburg — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — continued				
	bu.	*perct.*	*perct.*	*perct.*
Forster F11	102.3	25.4	96.9	90.6
Forster F25	100.1	27.9	96.3	90.6
Forster F33	114.8	31.2	87.5	96.6
Forster F44	129.1	27.2	87.8	92.0
Forster F56	106.7	28.9	95.2	88.0
Frey 892	104.3	23.3	80.2	88.0
Frey F57	121.7	27.5	94.9	92.0
Holmes 39	100.1	30.0	77.0	87.3
Holmes 47	120.9	25.4	89.1	91.3
Hulting 242	91.3	25.1	91.6	88.0
Hulting 260SC	115.4	24.7	93.8	97.3
Hulting 345	105.8	27.4	96.7	85.3
Hulting 471	94.7	24.7	96.2	90.0
Hulting 481	95.8	26.8	94.4	86.0
Hulting 482	106.8	24.6	91.3	92.0
Illinois 1421 (Station)	110.7	25.3	80.0	94.0
Illinois 1996 (Station)	112.8	24.4	85.9	90.6
Illinois 3042 (Station)	114.7	25.6	91.0	95.3
Illinois 3343 (Station)	130.9	28.8	88.3	96.6
Illinois 8001 (Station)	113.8	28.7	87.0	92.6
McAllister 11	103.4	25.6	84.7	93.3
McAllister 13A	100.3	27.7	89.5	82.0
McAllister 23A	110.8	26.7	97.2	97.3
McAllister 55A	127.3	24.2	90.6	91.3
McAllister 88A	93.4	27.2	88.4	87.3
McAllister IVX1001A	122.3	22.9	98.4	90.0
Middlekoop M-33	116.4	22.6	90.4	90.6
Middlekoop M-66	109.7	25.6	91.3	92.0
Middlekoop M-80	114.5	24.7	97.1	94.0
Middlekoop M-81	115.3	26.8	96.3	92.0
Middlekoop M-88	109.6	27.8	93.0	96.0
Moews 520	111.2	27.6	85.9	93.3
Moews 524	122.1	26.5	89.7	98.0
Moews 524A	110.7	29.1	89.5	88.6
Moews CB69A	105.8	28.2	94.9	92.6
Monier 6-M-6	108.4	25.8	88.8	93.3
Morton M-404	93.5	26.5	91.3	86.0
Morton M-505	112.0	24.8	95.1	86.6
Munson M-15	104.2	24.6	78.1	94.6
Munson M-15A	101.8	25.7	97.0	91.3
Munson M-66	111.3	23.2	96.3	88.0
Northrup King KT628	97.6	26.5	85.3	78.6
Northrup King KT632	108.4	27.1	97.7	85.3
Northrup King KT645	105.6	27.9	93.4	90.6
Null N-83	111.4	28.0	90.9	96.0
Null N-100	104.9	27.2	90.3	91.3
P.A.G. 405	122.4	27.2	95.8	93.3
P.A.G. 415	113.2	27.3	90.2	89.3
P.A.G. 418	98.8	27.5	90.0	91.3
P.A.G. 434	93.1	28.1	82.8	86.6
P.A.G. 444	113.0	32.0	90.4	97.3
P.A.G. SX9 (formerly Exp. 15009)	102.8	23.5	96.9	88.0
P.A.G. SX14 (formerly Exp. 15014)	110.2	26.9	96.4	79.3
P.A.G. SX19 (formerly Exp. 15019)	112.0	31.9	96.8	86.6
Pioneer 309A	120.8	32.9	93.3	98.6
Pioneer 309B	105.5	35.9	97.3	97.3
Pioneer 312A	103.5	28.6	94.8	89.3

(Table is concluded on next page)

Table 5. — Galesburg — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Pioneer 314	109.1	28.8	97.0	88.6
Pioneer 316	100.9	25.9	91.2	92.6
Pioneer 319 (formerly 2990)	101.2	26.1	93.6	92.6
Pioneer 321 (formerly 4549)	117.5	27.3	92.4	90.6
Pioneer 329	103.4	22.3	88.5	98.6
Pioneer 5625	103.8	29.6	90.6	94.6
Pioneer 6201	101.3	26.0	94.1	92.0
Pioneer 80201	127.0	26.9	94.6	99.3
Prairie Gold D-791 (Dittmer)	109.2	22.6	92.9	94.0
Robe 30	99.0	28.3	82.0	80.0
Robe 41	108.2	25.3	92.6	90.6
Schwenk S17	98.0	26.6	93.7	87.3
Schwenk S17L	98.6	24.3	93.6	82.6
Schwenk S20	118.2	24.6	97.0	90.6
Schwenk S34	110.1	25.0	89.2	98.0
Sieben S-320	96.8	23.6	84.8	90.0
Sieben S-340	94.8	24.3	91.1	84.6
Sieben S-360	81.1	24.1	67.2	88.0
Steckley's 18	93.4	24.1	87.4	90.6
Steckley's Genetic Giant 10	80.5	21.6	85.8	82.6
Steckley's Genetic Giant 12	99.3	25.0	86.4	93.3
Steckley's Genetic Giant 13	95.1	24.1	88.3	86.6
Stewart S-56B	99.9	25.5	94.0	89.3
Stewart S-65	110.8	25.5	86.2	86.6
Tiemann T-68	106.3	23.4	78.6	89.3
Tiemann T-78	103.2	26.7	80.8	94.6
Tomco 838	112.4	26.9	93.6	95.3
Tomco 852	108.4	27.9	88.5	94.0
Troyer L13	73.9	26.6	92.7	79.3
Troyer L14T	92.5	25.7	88.2	90.6
Troyer L17	116.5	25.1	83.5	94.6
Troyer M9A	93.6	28.7	90.7	89.3
Troyer M11T	99.6	24.5	90.5	96.6
Troyer M13T	100.8	25.8	91.8	98.0
Troyer M17T	102.9	26.6	96.2	94.0
Troyer M21	103.3	28.2	97.2	91.3
Troyer M22	106.3	24.9	96.9	76.0
United-Hagie 52B	100.2	22.9	94.8	90.6
United-Hagie WW50	96.9	27.8	79.9	88.6
United-Hagie X146	91.7	21.1	88.2	81.3
Van Horn V.H. 95-1	99.6	28.0	92.1	93.3
Van Horn V.H. 101	126.9	27.2	89.4	95.3
Van Horn V.H. 111	109.2	26.0	84.5	92.0
Whisnand 830	104.8	26.9	87.5	92.6
Whisnand 834	96.4	28.1	88.6	86.0
Whisnand 852	115.6	28.3	93.7	95.3
Wyffels W-600	106.6	25.4	95.4	92.0
Average of all entries	**106.6**	**26.5**	**90.6**	**90.1**
Number in range	Difference necessary for significance			
2	21.7	3.6	9.6	12.6
3-5	24.2	4.0	10.8	14.0
6-10	25.7	4.3	11.4	14.9
11-20	27.1	4.5	12.1	15.7
Over 20	28.7	4.8	12.8	16.6

Table 6. — EAST NORTH-CENTRAL ILLINOIS: Ashkum

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	bu.	*perct.*	*perct.*	*perct.*
DeKalb 805	108.3	21.5	95.5	85.8
DeKalb 632	106.2	23.1	90.8	87.4
Tiemann T-68	103.6	19.4	90.5	88.3
Troyer M13T	102.4	21.2	90.4	90.5
Illinois 274-1 (Station)	101.4	21.3	87.6	89.2
Troyer L14T	100.9	21.0	90.8	89.4
Moews 524A	100.6	22.1	89.3	86.8
Frey 892	99.5	21.0	87.4	89.8
Troyer M11T	99.5	22.7	95.2	86.2
Trisler T-32B	98.3	21.4	93.4	88.2
Wyckoff's W-25A	96.5	22.0	91.3	88.5
Frey 644	95.9	21.6	90.2	86.9
Hulting 242	95.7	19.3	95.5	83.2
Moews CB96	95.5	21.7	79.0	90.0
Van Horn V.H. 100	93.5	22.5	91.2	86.5
Frey 692	93.4	22.3	92.6	83.8
Wyckoff's W-20	92.9	20.8	94.3	88.2
Troyer M17T	91.2	22.0	91.8	86.1
Average of all entries	**98.6**	**21.5**	**90.9**	**87.5**
Number in range	Difference necessary for significance			
2	N.S.	1.9	N.S.	N.S.
3-5	N.S.	2.1	N.S.	N.S.
Over 5	N.S.	2.2	N.S.	N.S.
SUMMARY: 1958-1960				
Crib Filler 77	103.7	21.2	92.2	86.7
Pioneer 321 (formerly 4549)	99.6	21.8	96.5	89.9
Bear OK96	96.0	23.0	89.6	83.9
DeKalb 632	96.0	23.1	94.0	87.0
Moews CB60A	94.8	23.7	89.1	92.2
Bear Unicorn X600	94.4	20.2	90.8	87.0
DeKalb 805	94.3	21.8	93.9	82.7
Van Horn V.H. 97	93.1	20.9	91.9	86.1
Trisler T-35B	92.9	20.7	92.8	83.7
DeKalb 633	91.3	22.7	95.6	83.2
Bear OK55	90.9	22.0	89.1	81.9
Troyer M13T	90.5	22.5	93.9	89.7
Tiemann T-68	89.7	19.6	93.2	86.6
Frey 892	89.2	21.3	93.4	90.2
Illinois 274-1 (Station)	89.1	21.2	92.4	89.3
DeKalb 640	88.9	22.1	94.4	86.2
Wyckoff's W-25A	88.1	21.5	92.1	87.7
Troyer L14T	88.0	21.1	92.7	88.1
Moews 524A	88.0	22.4	91.8	85.2
Ainsworth X97	87.0	22.1	94.8	89.3
Crib Filler 131	87.0	23.0	92.9	77.7
Trisler T-32B	86.7	22.2	93.7	86.6
Moews CB96	86.2	21.4	90.7	91.6
DeKalb 803A	85.9	23.2	88.4	85.0
Troyer M11T	84.0	22.9	92.9	85.1
P.A.G. 415	83.9	21.8	95.6	85.9
Pioneer 319	83.6	21.2	91.7	77.6
Troyer M9A	83.4	21.6	92.7	85.1
Hulting 482	82.7	21.3	96.3	85.5
Troyer L13	82.5	20.5	87.9	82.7
Frey 644	82.4	21.1	91.7	85.8
Van Horn V.H. 100	80.8	21.7	90.4	86.8
Troyer M18	80.6	21.6	96.9	83.3
Wyckoff's W-20	78.9	21.5	93.6	86.2
Hulting 242	78.7	19.7	95.2	81.9
Frey 692	78.0	22.0	95.1	83.7
Troyer M17T	75.3	22.3	90.4	84.9
Average of all entries	**87.7**	**21.7**	**92.7**	**85.7**

(None of the differences between hybrids are large enough to be statistically significant at the 5-percent level of significance.)

(Table is continued on next page)

Table 6. — Ashkum — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Ainsworth X-96	86.8	23.0	92.9	95.4
Ainsworth X-97	73.1	20.4	91.3	93.9
Ainsworth X-98	79.5	21.2	93.7	96.2
Ainsworth X-100	73.6	24.6	89.9	97.7
Bear OK55	68.2	22.1	79.3	87.8
Bear OK96	74.5	22.5	80.9	97.7
Bear OK96A	87.5	23.8	86.0	93.1
Bear Unicorn X600	72.5	22.1	83.5	93.9
Cargill 310	76.4	23.1	88.6	90.9
Cargill 340	82.9	24.3	92.6	83.3
Crib Filler 63	84.8	20.0	94.2	93.9
Crib Filler 66	86.4	24.0	92.8	94.6
Crib Filler 70	61.0	20.9	89.0	93.9
Crib Filler 77	77.8	22.9	84.5	90.1
Crib Filler 116	76.3	22.9	93.2	90.9
Crib Filler 123	77.7	23.0	89.4	90.1
Crib Filler 131	74.1	23.0	82.8	78.0
DeKalb 632	98.1	24.1	90.1	93.9
DeKalb 633	73.2	24.3	92.7	85.6
DeKalb 640	69.4	23.2	88.1	91.6
DeKalb 803	78.7	23.4	91.8	84.0
DeKalb 803A	77.5	24.3	76.2	90.9
DeKalb 805	72.4	22.2	86.6	84.0
DeKalb 869	72.5	25.0	86.6	81.8
DeKalb 898A	73.3	23.9	86.4	91.6
DeKalb A504	66.0	22.4	92.0	91.6
DeKalb A703	88.4	22.8	85.0	84.0
DeKalb X8034	75.9	22.8	89.3	91.6
DeKalb X82-030	91.3	23.1	93.7	89.3
Frey 644	77.4	21.4	93.2	86.3
Frey 692	82.7	23.2	90.0	84.0
Frey 892	76.0	21.9	94.2	91.6
Hulting 242	66.1	21.6	94.7	87.8
Hulting 260SC	74.1	22.8	93.7	93.9
Hulting 345	73.7	23.1	98.2	85.6
Hulting 471	73.4	21.3	92.8	88.6
Hulting 482	79.6	20.6	92.0	94.6
Illinois 274-1 (Station)	73.8	20.5	93.1	96.9
Illinois 3347 (Station)	90.4	25.6	93.8	96.2
Moews 524A	77.6	24.1	87.3	91.6
Moews CB60A	70.6	24.2	80.2	91.6
Moews CB96	61.8	22.2	83.1	96.9
Moews CB96A	82.8	24.3	84.1	90.9
Monier 6-M-6	67.2	21.8	88.9	94.6
Northrup King KT632	87.7	22.2	90.0	90.1

(Table is concluded on next page)

Table 6. — Ashkum — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Northrup King KT645	65.2	26.8	94.3	87.1
P.A.G. 405	72.5	21.9	92.8	87.1
P.A.G. 415	75.7	21.3	93.9	88.6
P.A.G. 418	82.5	23.8	90.7	93.9
P.A.G. SX9 (formerly Exp. 15009)	74.7	19.3	94.5	83.3
P.A.G. SX14 (formerly Exp. 15014)	65.1	23.2	91.5	81.8
Pioneer 309A	74.1	29.3	91.7	94.6
Pioneer 309B	56.0	32.8	90.0	86.3
Pioneer 314	73.8	24.9	88.8	87.1
Pioneer 319 (formerly 2990)	55.1	22.3	89.0	75.7
Pioneer 321 (formerly 4549)	78.2	22.2	92.4	88.6
Pioneer 329	65.6	20.6	93.2	87.8
Pioneer 5536	78.0	22.4	95.1	93.1
Pioneer 5553	74.8	20.0	91.0	75.7
Pioneer 6201	68.4	22.5	94.1	82.5
Pioneer 6738	74.6	21.9	94.6	90.9
Pioneer 80201	76.9	22.5	92.2	87.8
Steckley's 18	73.7	23.4	86.2	87.1
Steckley's Genetic Giant 13	66.8	21.5	91.2	84.0
Super-Crost 680	64.4	22.4	85.4	90.9
Super-Crost 690	71.6	20.4	91.4	81.0
Super-Crost S6	83.2	20.8	94.7	87.8
Tiemann T-62	73.1	21.0	83.8	81.0
Tiemann T-68	68.6	20.6	89.6	84.8
Todd 424	62.0	19.9	86.2	86.3
Todd 453	71.9	20.3	95.0	85.6
Todd 611B	72.8	18.4	86.7	90.9
Trisler T-31B	77.8	22.9	89.4	93.1
Trisler T-32A	74.1	24.5	81.4	95.4
Trisler T-32B	83.9	21.6	91.2	96.9
Trisler T-35B	69.7	22.7	90.5	96.2
Troyer L13	69.7	19.9	78.8	93.1
Troyer L14T	76.6	18.0	88.1	92.4
Troyer M9A	69.4	21.0	88.1	95.4
Troyer M11T	73.2	24.0	92.7	96.2
Troyer M13T	82.1	22.9	89.8	96.2
Troyer M17T	64.4	23.8	81.2	81.8
Troyer M18	71.4	22.4	96.6	84.8
Troyer M21	72.2	20.4	90.9	85.6
Troyer M22	73.4	21.9	96.4	89.3
Van Horn V.H. 97	73.8	21.5	84.7	90.1
Van Horn V.H. 100	79.1	20.9	87.1	95.4
Wyckoff's W-18	76.5	19.6	96.3	85.6
Wyckoff's W-20	66.6	22.8	88.7	79.5
Wyckoff's W-25A	74.0	22.4	93.3	90.1
Average of all entries	**74.6**	**22.5**	**89.8**	**89.4**
Number in range	Difference necessary for significance			
2	N.S.	3.3	N.S.	11.2
3-5	N.S.	3.7	N.S.	12.5
6-10	N.S.	3.9	N.S.	13.3
11-20	N.S.	4.1	N.S.	14.0
Over 20	N.S.	4.4	N.S.	14.8

Table 7. — WEST-CENTRAL ILLINOIS: Bowen

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960				
	bu.	*perct.*	*perct.*	*perct.*
Whisnand 852	119.1	22.7	89.4	93.9
Pioneer 321 (formerly 4549)	114.6	21.6	92.1	93.9
Prairie Gold D-896 (Dittmer)	109.8	21.5	94.6	91.6
Plymouth P-97	107.0	21.5	95.5	85.5
McAllister 13A	106.6	21.6	90.2	85.2
Munson M-119	105.3	20.9	88.2	91.2
P.A.G. 444	104.5	24.8	92.0	87.6
Whisnand 830	103.7	22.8	96.8	92.3
Moews 520	103.6	21.2	85.6	96.5
Moews 524	103.6	22.0	93.1	87.4
DeKalb 805	103.4	22.0	92.0	78.7
DeKalb 633	103.2	22.7	95.1	89.9
DeKalb 3x1	103.1	22.0	90.3	86.7
DeKalb 803A	102.8	24.2	88.3	90.8
DeKalb 640	102.4	21.4	98.1	91.4
Troyer M11T	102.4	23.0	91.2	96.9
DeKalb 3x4	102.2	22.2	92.1	87.9
Prairie Gold D-837 (Dittmer)	102.0	21.4	95.2	87.8
Canterbury 420	101.7	21.1	85.7	92.0
Pioneer 312A	101.4	25.1	94.6	93.4
Canterbury 400	101.3	19.9	91.7	92.8
Hulting 482	100.8	23.1	96.2	87.5
Ainsworth X-100	100.7	23.5	94.5	93.7
Morton M404	100.4	22.1	97.2	93.0
Morton M-12A	100.0	22.2	96.1	93.0
Troyer L13	99.2	21.7	91.4	91.7
Troyer M13T	98.4	20.8	93.4	90.9
Ainsworth X-98	97.4	21.5	95.4	86.9
Prairie Gold D-821 (Dittmer)	94.9	21.8	86.6	89.5
Troyer L14T	90.9	21.4	94.3	87.8
P.A.G. 434	90.1	24.1	87.9	78.6
Troyer M9A	87.6	22.8	94.6	92.2
Average of all entries	**102.0**	**22.2**	**92.5**	**89.9**
Number in range	Difference necessary for significance			
2	N.S.	1.3	N.S.	N.S.
3-5	N.S.	1.5	N.S.	N.S.
6-10	N.S.	1.6	N.S.	N.S.
Over 10	N.S.	1.7	N.S.	N.S.
1960 RESULTS				
Ainsworth X-14-3	86.1	21.6	90.1	93.1
Ainsworth X-98	91.3	21.6	93.3	81.8
Ainsworth X-100	81.2	22.8	96.6	92.4
Bear OK69	106.1	24.2	83.2	84.0
Bear OK89	102.7	25.0	95.2	81.8
Bear OK96A	86.0	23.3	82.4	87.1
Bear Unicorn X600	120.0	20.4	89.8	87.8
Bear Unicorn X606	84.0	22.6	87.8	84.0
Canterbury 400	92.3	19.3	88.2	90.1
Canterbury 420	93.3	20.3	86.2	87.1
Cargill 340	83.3	22.3	96.0	81.0
Cargill 5741	105.4	21.1	88.4	89.3
DeKalb 3x1	76.2	23.0	84.1	85.6
DeKalb 3x4	83.3	22.0	88.3	91.6
DeKalb 633	95.1	22.2	96.3	87.1
DeKalb 640	85.6	22.3	97.2	83.3
DeKalb 803	90.1	24.2	95.0	85.6
DeKalb 803A	97.7	24.6	84.8	90.9
DeKalb 805	106.6	20.4	87.1	100.0
DeKalb 869	89.1	23.6	89.2	82.5
DeKalb A504	93.6	22.3	88.7	88.6
DeKalb X8034	101.7	23.1	93.5	92.4
DeKalb X82-030	92.2	21.7	92.4	79.5
DeKalb X91-005	86.3	23.6	92.0	84.8

(Table is concluded on next page)

Table 7. — Bowen — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Hulting 345	100.9	21.4	98.1	85.6
Hulting 482	94.7	24.8	94.6	87.8
McAllister 13A	97.4	21.6	93.5	77.2
Moews 520	91.6	20.6	69.6	96.9
Moews 524	104.9	22.5	91.2	90.9
Moews 5097	93.4	21.0	92.4	100.0
Moews CB96A	101.7	21.3	89.9	90.9
Morton M-6X	107.7	21.9	92.4	85.6
Morton M-12A	90.9	21.4	97.3	89.3
Morton M-404	91.1	21.9	96.5	87.1
Morton M-505	80.8	20.0	89.3	80.3
Munson M-119	102.2	20.1	82.7	91.6
Northrup King KT632	79.3	22.6	91.3	83.3
Northrup King KT645	78.5	22.9	95.7	90.1
Northrup King Exp. 6652	90.4	23.4	95.8	74.2
Null N-26	104.7	22.7	95.8	89.3
Null N-41	90.7	23.1	95.9	93.9
P.A.G. 415	104.4	22.1	95.2	96.2
P.A.G. 418	81.7	22.7	84.7	82.5
P.A.G. 434	83.8	22.4	80.6	84.0
P.A.G. 436 (formerly Exp. 10919)	99.8	23.2	95.8	90.1
P.A.G. 444	100.3	24.7	87.1	86.3
P.A.G. SX19 (formerly Exp. 15019)	112.4	23.9	91.8	82.5
Pioneer 309A	101.4	26.2	90.2	93.9
Pioneer 309B	87.6	32.3	94.4	93.9
Pioneer 312A	86.6	24.2	89.8	90.9
Pioneer 314	106.4	21.9	96.0	94.6
Pioneer 321 (formerly 4549)	103.1	21.8	87.2	95.4
Pioneer 5555	77.4	22.6	95.1	91.6
Pioneer 6117	94.8	23.2	96.6	87.1
Pioneer 6122	100.9	22.7	95.5	82.5
Pioneer 80202	108.5	19.0	94.1	89.3
Plymouth P-91X	92.6	23.1	94.5	86.3
Plymouth P-97	107.7	20.4	95.5	85.6
Prairie Gold D-821 (Dittmer)	90.1	21.1	78.9	93.1
Prairie Gold D-837 (Dittmer)	92.0	21.9	91.5	87.1
Prairie Gold D-896 (Dittmer)	111.1	21.6	94.9	90.1
Troyer L13	89.0	21.1	88.1	88.6
Troyer L13T	80.3	20.7	93.2	90.1
Troyer L14T	82.9	21.2	92.8	84.8
Troyer M9A	64.2	23.8	95.9	92.4
Troyer M11T	89.2	21.9	91.6	100.0
Troyer M13T	94.6	20.2	94.1	90.9
Troyer M17T	93.1	23.4	95.4	96.2
Troyer M21	106.7	23.4	91.8	87.1
Troyer M22	102.7	20.5	93.7	87.8
Whisnand 830	86.9	22.0	96.5	90.9
Whisnand 852	107.9	22.3	89.2	91.6
Average of all entries	**94.1**	**22.3**	**91.3**	**88.4**
Number in range	Difference necessary for significance			
2	N.S.	2.3	10.2	10.5
3-5	N.S.	2.6	11.4	11.7
6-10	N.S.	2.8	12.1	12.5
11-20	N.S.	2.9	12.8	13.2
Over 20	N.S.	3.0	13.3	13.7

Table 8. — CENTRAL ILLINOIS: Stanford

SUMMARY: 1958-1960

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
	bu.	*perct.*	*perct.*	*perct.*
Pioneer 309A	122.1	26.0	95.7	94.2
DeKalb 805	121.6	21.2	97.4	92.2
DeKalb 633	116.5	21.3	93.0	93.0
DeKalb 640	112.9	21.0	95.0	93.6
Pioneer 321 (formerly 4549)	112.7	21.6	96.1	94.8
DeKalb 837	112.7	21.8	88.7	95.2
Pioneer 302	112.6	24.2	92.4	96.6
Whisnand 830	112.3	21.1	93.9	92.8
Bear Unicorn X606	112.1	22.9	96.4	95.1
Stiegelmeier Hi-B-Jack S-600	111.6	21.3	88.3	89.1
Whisnand 852	110.9	21.5	90.3	92.9
Pioneer 329	110.5	19.2	96.1	96.1
Bear Unicorn X600	110.4	19.4	88.4	92.6
Bear OK24	110.3	20.9	97.1	92.4
Stiegelmeier Hi-B-Jack S-396	110.2	21.8	93.6	93.5
P.A.G. 444	110.1	23.2	89.3	93.3
P.A.G. 415	109.5	22.4	93.2	94.4
Moews 524	108.8	20.8	96.0	88.6
Illinois 1421 (Station)	108.6	20.3	91.2	92.3
Moews CB90A	108.6	21.2	95.8	95.9
Stiegelmeier Hi-B-Jack S-300A	108.6	22.4	94.8	91.5
Moews CB69A	107.7	21.4	96.0	91.0
Troyer L13	107.5	20.1	96.5	95.1
Troyer L14T	107.3	20.8	94.9	94.8
Trisler T-35B	107.2	19.4	92.1	91.2
Troyer M9A	106.5	20.9	93.5	90.8
Van Horn V.H. 95-1	106.5	21.8	93.0	92.2
Frey F57	106.4	19.8	92.7	95.6
Van Horn V.H. 100	106.3	19.8	93.6	93.6
Tiemann T-81	105.6	22.7	87.8	93.7
Frey 892	104.4	19.9	94.6	94.3
Trisler T-32B	104.4	20.4	94.1	94.3
Ainsworth X-14-3	104.1	21.0	92.5	93.9
Frey 692	103.4	19.8	94.3	94.3
Troyer M11T	102.7	21.5	91.1	90.7
Trisler T-19B	102.4	19.9	92.2	93.7
DeKalb 803A	102.4	22.8	90.9	94.5
Mountjoy M-444	101.7	20.8	94.8	90.4
Canterbury 420	101.6	19.5	93.7	93.3
Illinois 1919 (Station)	100.1	20.2	90.1	90.4
Ainsworth X-98	99.3	21.2	93.4	90.7
Appl A-130	96.5	18.8	95.1	95.6
Canterbury 400	94.4	19.1	87.5	93.3
Average of all entries	**107.7**	**21.1**	93.2	93.2
Number in range	Difference necessary for significance			
2	N.S.	1.4	N.S.	N.S.
3-5	N.S.	1.5	N.S.	N.S.
6-10	N.S.	1.6	N.S.	N.S.
11-20	N.S.	1.7	N.S.	N.S.
Over 20	N.S.	1.7	N.S.	N.S.

(Table is continued on next page)

Table 8. — Stanford — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Ainsworth X-14-3	105.6	21.5	96.6	90.1
Ainsworth X-98	107.0	20.9	94.2	93.1
Ainsworth X-100	96.7	20.9	97.7	99.2
Appl A-130	98.6	18.6	99.2	96.2
Appl A-400	101.7	19.0	91.8	93.1
Bear OK24	108.4	21.3	99.2	93.1
Bear OK69	108.0	21.2	91.3	95.4
Bear OK96	114.0	22.8	88.4	91.6
Bear OK96A	109.7	22.1	93.3	90.9
Bear Unicorn X600	109.7	18.3	97.3	94.6
Bear Unicorn X606	113.2	23.3	96.1	96.9
Canterbury 400	87.5	18.8	97.4	90.9
Canterbury 420	109.0	19.1	98.1	92.4
Canterbury 430	99.7	20.8	98.3	92.4
Cargill 330	114.0	22.1	98.3	91.6
Cargill 340	125.0	21.8	98.4	95.4
DeKalb 633	131.9	21.4	99.1	92.4
DeKalb 640	113.4	21.1	99.1	91.6
DeKalb 803	112.6	23.4	95.0	93.1
DeKalb 803A	102.0	24.5	93.7	96.2
DeKalb 805	127.0	21.5	98.2	91.6
DeKalb 837	125.1	21.7	95.2	93.9
DeKalb 869	107.5	22.3	97.2	84.0
DeKalb A504	111.7	21.5	98.4	100.0
DeKalb A703	120.6	23.0	94.6	100.0
DeKalb X8034	115.6	22.8	93.1	100.0
DeKalb X82-030	116.0	20.9	100.0	91.6
DeKalb X91-005	116.7	22.5	95.8	93.9
Frey 692	105.2	20.5	96.0	93.1
Frey 892	111.0	19.2	96.7	93.9
Frey F57	124.2	20.9	100.0	98.4
Illinois 1421 (Station)	114.2	20.7	97.5	94.6
Illinois 1919 (Station)	104.9	20.6	98.2	78.7
Illinois 1936 (Station)	117.0	20.4	93.0	98.4
Illinois 1996 (Station)	116.0	21.7	93.9	98.4
Illinois 3042 (Station)	112.7	22.9	96.9	98.4
Illinois 3315A (Station)	101.4	20.3	97.5	94.6
Illinois 3348 (Station)	122.0	25.1	98.4	96.2
Indiana 851 (Station)	107.2	26.5	95.8	79.5
Moews 524	117.1	22.2	99.1	81.0
Moews 5097	117.2	21.5	99.1	92.4
Moews CB69A	124.2	22.1	99.1	92.4
Moews CB90A	115.8	22.7	98.3	96.2
Moews CB96A	118.6	21.7	95.4	90.9
Monier 6-M-6	113.4	21.5	97.7	93.1
Mountjoy M-66	101.6	20.0	95.4	99.2
Mountjoy M-100	122.4	22.0	99.2	96.2
Mountjoy M-444	112.1	22.3	96.5	93.9
Northrup King KT632	105.3	22.7	99.1	88.6
Northrup King KT645	105.7	22.1	97.7	98.4
Northrup King Exp. 6652	115.5	24.4	92.8	84.8

(Table is concluded on next page)

Table 8. — Stanford — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
P.A.G. 405	124.0	22.0	97.7	96.9
P.A.G. 415	106.5	23.6	93.7	98.4
P.A.G. 418	106.6	23.3	94.2	93.1
P.A.G. 434	118.8	22.4	99.1	90.9
P.A.G. 444	115.8	24.1	96.9	99.2
P.A.G. SX9 (formerly Exp. 15009)	111.2	18.9	100.0	92.4
P.A.G. SX14 (formerly Exp. 15014)	126.5	23.8	100.0	87.8
P.A.G. SX19 (formerly Exp. 15019)	137.0	22.5	97.5	92.4
Pioneer 302	114.3	25.8	96.2	100.0
Pioneer 309A	135.8	29.2	99.2	97.7
Pioneer 309B	117.7	32.0	99.1	93.9
Pioneer 312A	134.2	23.0	96.7	95.4
Pioneer 314	108.0	22.9	100.0	96.9
Pioneer 321	107.5	22.8	99.2	96.9
Pioneer 329	113.8	19.8	98.4	99.2
Pioneer 5701	125.2	23.7	98.4	100.0
Pioneer 6122	123.3	23.8	99.2	99.2
Pioneer 80202	97.6	20.2	96.8	97.7
Pioneer X23	124.4	22.6	96.7	94.6
Schwenk S-27-1	103.2	20.3	97.5	90.9
Stiegelmeier Hi-B-Jack S-300A	128.2	23.1	98.4	93.9
Stiegelmeier Hi-B-Jack S-396	118.2	21.1	96.7	93.1
Stiegelmeier Hi-B-Jack S-600	133.0	23.5	100.0	91.6
Tiemann T-81	96.5	23.5	91.3	96.9
Todd 635	105.4	21.6	94.8	81.0
Todd 645	97.9	22.1	95.9	93.1
Todd 840	102.7	23.9	94.3	95.4
Todd 855	124.8	21.2	98.2	87.8
Tomco 838	101.8	22.9	98.3	88.6
Tomco 882	96.3	22.3	92.3	98.4
Trisler T-19B	105.7	19.9	97.6	96.2
Trisler T-31B	124.5	22.5	94.5	94.6
Trisler T-32A	130.0	21.7	96.0	93.9
Trisler T-32B	107.1	20.5	99.2	93.9
Trisler T-35B	116.6	20.2	94.3	94.6
Troyer L13	112.7	20.5	98.4	95.4
Troyer L13T	82.7	21.9	98.1	79.5
Troyer L14T	111.1	21.9	96.7	96.2
Troyer M9A	111.4	21.6	94.4	92.4
Troyer M11T	113.1	21.3	98.3	93.1
Troyer M13T	103.2	20.2	96.9	99.2
Troyer M17T	100.6	22.8	100.0	87.8
Troyer M21	107.8	22.5	98.3	87.8
Troyer M22	108.5	20.9	100.0	91.6
Van Horn V.H. 95-1	102.1	21.9	96.1	90.9
Van Horn V.H. 100	112.6	19.4	96.8	97.7
Van Horn V.H. 111	123.7	20.6	96.1	94.6
Whisnand 830	117.3	22.1	96.8	95.4
Whisnand 852	109.6	21.5	96.8	94.6
Average of all entries	**112.7**	**22.1**	**97.0**	**94.2**
Number in range	Difference necessary for significance			
2	18.2	1.4	5.0	8.8
3-5	20.3	1.5	5.6	9.8
6-10	21.6	1.6	6.0	10.4
11-20	22.8	1.7	6.3	11.0
Over 20	24.1	1.8	6.7	11.7

Table 9. — EAST-CENTRAL ILLINOIS: Urbana

SUMMARY: 1956-1960

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
	bu.	*perct.*	*perct.*	*perct.*
Bear OK96	128.7	21.6	96.7	89.7
Whisnand 852	127.5	21.7	94.3	92.4
Stiegelmeier Hi-B-Jack S-600	126.3	20.5	92.8	91.4
Appl A-159	126.1	20.5	93.5	93.4
Moews 524A	124.7	21.3	95.5	93.2
Pioneer 312A	124.5	22.9	95.8	94.1
Stiegelmeier Hi-B-Jack S-396	124.4	22.4	96.1	90.6
Frey 892	123.0	19.5	95.6	93.8
Frey 692	122.8	19.2	96.1	93.0
Holmes 39	122.1	20.1	91.9	94.3
Van Horn V.H. 100	120.9	19.0	96.3	89.8
Appl A-130	120.8	18.6	93.8	93.6
Troyer M11T	120.1	20.1	94.4	92.7
Whisnand 830	119.8	20.6	96.3	90.7
Canterbury 400	119.5	19.0	94.4	93.8
Trisler T-32B	119.5	20.1	96.9	91.8
Moews 523	119.2	19.9	93.3	93.0
Canterbury 420	119.1	18.3	93.2	92.4
P.A.G. 444	119.1	23.4	97.0	90.8
Ainsworth X-14-3	118.8	19.5	93.0	93.1
Van Horn V.H. 95-1	117.8	22.1	96.5	90.1
Trisler T-33B	117.4	19.7	94.8	90.1
Tiemann T-72	117.2	19.7	95.9	93.1
AES 805	117.1	20.5	97.3	93.2
Troyer L13	117.0	19.3	96.3	91.9
Van Horn V.H. 97	115.6	19.5	97.5	93.4
Trisler T-19B	115.5	18.6	93.9	92.7
Troyer L14T	115.5	20.9	96.9	93.4
Average of all entries	**127.5**	**21.7**	**95.2**	**92.4**
Number in range	Difference necessary for significance			
2	8.0	1.3	N.S.	N.S.
3-5	9.0	1.5	N.S.	N.S.
6-10	9.5	1.6	N.S.	N.S.
11-20	10.0	1.6	N.S.	N.S.
Over 20	10.1	1.6	N.S.	N.S.

(Table is continued on next page)

Table 9. — Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1958-1960				
	bu.	*perct.*	*perct.*	*perct.*
Bear Unicorn X600	124.3	20.8	83.4	92.6
DeKalb 805	124.3	21.5	98.7	93.5
Stiegelmeier Hi-B-Jack S-600	123.2	21.2	90.6	92.9
Whisnand 852	121.6	22.4	90.9	90.7
Van Horn V.H. 111	119.6	21.1	88.2	94.1
Stiegelmeier Hi-B-Jack S-396	118.2	23.1	95.2	89.9
Appl A-159	117.0	22.5	91.4	93.7
Illinois 1996 (Pfeifer)	116.0	22.8	95.3	93.4
Pioneer 312A	116.0	22.8	94.0	94.2
Bear OK96	115.7	22.4	95.1	88.7
Holmes 39	115.2	21.3	89.5	94.4
Moews 524A	114.4	22.4	96.5	93.7
Illinois 1421 (Pfeifer)	114.3	20.7	94.9	95.4
Frey 892	113.4	21.2	95.1	93.6
Pioneer 321 (formerly 4549)	113.3	21.0	95.8	95.6
Pioneer 319	113.1	20.4	96.3	94.7
Frey 692	112.3	20.6	96.2	94.0
Crib Filler 131	112.1	22.5	94.2	93.9
P.A.G. 415	112.0	21.9	97.3	89.1
Troyer M11T	111.7	21.9	92.3	93.1
DeKalb 640	111.5	20.6	96.9	92.9
Appl A-130	111.1	20.6	92.0	95.4
DeKalb 3X1	111.1	20.9	91.2	90.8
Troyer M9A	110.8	22.5	94.5	91.6
Ainsworth X-98	110.7	20.5	94.5	91.2
Ainsworth X-14-3	110.6	21.2	92.7	93.6
Whisnand 830	110.4	21.8	95.5	91.4
Van Horn V.H. 100	109.8	20.1	95.2	88.1
Trisler T-35B	109.7	21.2	93.9	93.6
Canterbury 400	109.6	20.0	93.9	93.9
Moews 523	109.6	20.9	90.8	92.7
Canterbury 420	109.0	19.6	93.3	89.9
Tiemann T-72	109.0	21.2	94.1	94.1
Trisler T-32B	109.0	21.3	95.8	91.7
DeKalb 633	108.9	21.9	91.8	90.0
DeKalb 803A	108.3	22.9	92.1	91.2
AES 805 (Stone '58, '59; Pfeifer '60)	107.6	21.7	97.5	93.4
P.A.G. 444	107.5	24.5	93.7	91.1
Troyer L13	107.3	21.1	95.2	92.3
Van Horn V.H. 95-1	107.2	22.9	96.9	89.9
Bear OK55	106.9	21.9	95.7	91.1
Illinois 1332 (Pfeifer)	106.8	20.8	96.3	92.4
Trisler T-19B	106.0	19.9	92.5	91.7
Trisler T-33B	106.0	20.7	93.3	85.8
Van Horn V.H. 97	105.9	21.0	97.2	93.2
Pioneer 309A	105.8	24.5	95.4	92.3
Frey F57	105.7	21.4	94.3	94.8
Crib Filler 124	105.0	21.1	91.2	88.9
Troyer L14T	104.7	22.0	96.6	92.9
Cargill P1733	103.6	21.1	97.5	89.9
Ainsworth X-100	102.4	21.7	92.9	94.1
Average of all entries	**111.2**	**21.5**	**94.0**	**92.3**
Number in range	Difference necessary for significance			
2	11.6	1.4	N.S.	N.S.
3-5	13.0	1.5	N.S.	N.S.
6-10	13.8	1.6	N.S.	N.S.
11-20	14.4	1.6	N.S.	N.S.
Over 20	14.7	1.6	N.S.	N.S.

(Table is continued on next page)

Table 9. — Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
AES 702 (Pfeifer)	104.5	19.3	86.8	92.4
AES 805 (Pfeifer)	94.5	20.8	97.4	89.3
Ainsworth X-14-3	114.4	19.5	92.2	98.4
Ainsworth X-98	111.5	18.9	94.5	95.4
Ainsworth X-100	96.6	19.3	84.7	91.6
Appl A-130	103.5	19.1	91.1	93.9
Appl A-159	114.6	21.9	84.3	95.4
Appl A-400	100.8	20.2	90.2	93.9
Appl A-440	96.4	22.6	90.4	95.4
Bear OK44	114.5	21.7	91.0	92.4
Bear OK55	93.2	20.3	93.1	100.0
Bear OK96	115.1	20.4	87.4	96.2
Bear OK96A	118.0	19.4	78.6	93.9
Bear OK878	111.7	19.4	91.0	93.1
Bear Unicorn X600	102.7	18.4	72.1	94.6
Bear Unicorn X606	116.7	21.9	96.1	98.4
Canterbury 400	106.4	18.6	93.8	99.2
Canterbury 420	100.6	18.1	84.1	92.4
Cargill 5752	97.4	20.0	95.4	90.1
Cargill P1733	86.2	20.4	97.6	92.4
Crib Filler 70	107.4	19.8	91.7	91.6
Crib Filler 77	97.0	20.1	76.5	88.6
Crib Filler 116	115.8	19.6	91.5	96.2
Crib Filler 123	106.3	21.8	97.6	98.4
Crib Filler 124	93.8	18.5	80.6	89.3
Crib Filler 131	104.9	20.9	90.6	98.4
DeKalb 3X1	102.1	19.6	80.6	90.9
DeKalb 633	100.1	21.2	92.3	90.1
DeKalb 640	102.7	18.1	92.8	93.9
DeKalb 803	105.9	21.6	92.9	97.7
DeKalb 803A	112.2	21.8	87.4	96.9
DeKalb 805	119.0	19.5	96.1	94.6
DeKalb 869	95.9	20.0	91.3	88.6
DeKalb 898A	102.5	19.3	75.4	97.7
DeKalb A504	108.3	19.9	94.4	95.4
DeKalb A703	108.3	22.3	91.2	95.4
DeKalb X8034	108.4	19.2	83.2	95.4
DeKalb X91-005	125.3	20.3	89.5	92.4
Embro 45LE	107.1	23.7	91.4	96.9
Frey 692	111.9	19.3	97.6	95.4
Frey 892	111.7	20.4	89.2	98.4
Frey F57	106.8	18.9	92.8	96.9
Holmes 39	110.2	18.3	79.5	98.4
Illinois 1332 (Pfeifer)	99.6	19.1	95.8	93.1
Illinois 1421 (Pfeifer)	109.9	18.1	89.7	96.2
Illinois 1992 (Pfeifer)	95.9	19.1	95.7	88.6
Illinois 1996 (Pfeifer)	109.5	20.7	93.9	89.3
Illinois 1996 (Stone)	102.9	18.1	87.3	95.4
Indiana 851 (Station)	104.4	20.4	93.1	96.2
Indiana 909 (Princeton)	96.4	20.0	84.4	92.4
Moews 523	106.5	19.5	92.4	100.0
Moews 524A	106.4	20.8	93.6	96.2
Moews 5097	106.6	19.1	93.7	96.2
Moews CB96A	101.0	20.1	97.5	92.4
Monier 6-M-6	114.2	19.6	93.7	97.7
Mountjoy M-33	107.7	20.0	95.4	96.9
Muncy Chief H522	103.9	19.1	88.6	100.0
Muncy Chief H780	89.2	20.4	93.9	100.0
Muncy Chief H802	92.6	19.0	98.4	100.0
Northrup King KT632	102.5	17.9	91.6	86.3
Northrup King KT645	104.1	19.5	98.4	95.4
Northrup King Exp. 6652	116.2	20.9	92.0	87.1

(Table is concluded on next page)

Table 9. — Urbana — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	bu.	perct.	perct.	perct.
P.A.G. 405	117.3	19.3	98.4	98.4
P.A.G. 415	109.3	20.2	98.0	84.0
P.A.G. 418	114.1	20.5	96.8	93.9
P.A.G. 434	101.5	19.8	92.8	96.2
P.A.G. 436 (formerly Exp. 10919)	107.5	22.0	83.7	97.7
P.A.G. 444	113.2	23.5	93.1	99.2
P.A.G. SX14 (formerly Exp. 15014)	111.2	20.5	100.0	86.3
P.A.G. SX19 (formerly Exp. 15019)	112.6	20.6	86.9	92.4
Pfeifer Exp. 101	88.7	19.3	96.2	95.4
Pioneer 302	98.9	21.9	87.3	95.4
Pioneer 309A	104.5	22.9	91.1	94.6
Pioneer 309B	116.3	24.7	96.9	96.9
Pioneer 312A	124.7	20.8	93.0	98.4
Pioneer 319 (formerly 2990)	118.1	17.6	96.9	98.4
Pioneer 321 (formerly 4549)	115.2	19.9	92.4	96.2
Pioneer 3756A	106.8	18.4	91.8	91.6
Pioneer 5625	104.8	21.3	95.9	95.4
Pioneer 6201	125.7	17.8	96.1	97.7
Pioneer 6261	122.4	20.4	96.2	99.2
Pioneer 80202	117.9	17.1	93.9	99.2
Pioneer X23	114.8	19.2	98.3	93.9
Princeton 8-A	99.9	19.6	94.1	94.6
Princeton 685	104.6	19.7	99.1	91.6
Princeton 888	110.6	19.1	88.5	99.2
Princeton 890	115.4	20.0	94.4	96.2
Princeton 990W	103.6	20.0	87.6	90.1
Steckley's Genetic Giant 12	98.1	18.5	96.7	84.8
Steckley's Genetic Giant 13	102.0	20.0	93.7	94.6
Stiegelmeier Hi-B-Jack S-396	109.8	20.4	87.7	92.4
Stiegelmeier Hi-B-Jack S-600	123.2	21.2	91.9	93.9
Stone 3049E	87.0	19.2	89.7	84.8
Super-Crost 690 (formerly C2F)	105.8	18.9	95.1	94.6
Super-Crost 851 (formerly C1F)	106.5	21.4	87.7	93.9
Tiemann T-72	111.8	20.4	89.3	100.0
Todd 424	87.4	17.6	94.7	86.3
Todd 602	105.3	20.0	94.5	97.7
Todd 630	113.8	18.5	94.3	96.2
Todd 635	99.2	18.9	98.1	93.1
Todd 645	99.9	19.2	94.2	89.3
Trisler T-19B	102.5	17.3	84.4	96.9
Trisler T-31B	117.7	21.1	80.1	96.2
Trisler T-32A	111.8	20.9	90.0	90.9
Trisler T-32B	104.0	19.5	92.3	89.3
Trisler T-33B	102.2	17.3	85.9	91.6
Trisler T-35B	108.4	21.4	91.6	100.0
Troyer L13	107.1	18.8	90.6	94.6
Troyer L14T	91.0	20.9	93.7	95.4
Troyer M9A	96.7	21.3	93.5	91.6
Troyer M11T	108.3	19.9	92.9	96.2
Troyer M17T	98.7	19.8	96.5	91.6
Troyer M21	101.2	19.4	96.1	98.4
Troyer M22	112.0	19.6	98.4	93.9
Van Horn V.H. 95-1	95.3	20.9	97.6	93.9
Van Horn V.H. 97	99.3	18.9	97.6	95.4
Van Horn V.H. 100	111.2	18.3	96.7	96.9
Van Horn V.H. 111	124.2	18.9	88.5	93.1
Whisnand 830	98.5	20.6	94.5	97.7
Whisnand 850	108.9	21.1	79.0	96.2
Whisnand 852	122.1	19.9	88.7	84.8
Average of all entries	**106.5**	**19.9**	**91.6**	**94.3**
Number in range	Difference necessary for significance			
2	19.0	1.9	11.3	8.5
3-5	21.2	2.1	12.6	9.4
6-10	22.6	2.3	13.4	10.0
11-20	23.8	2.4	14.2	10.6
Over 20	25.2	2.5	15.0	11.2

Table 10. — WEST SOUTH-CENTRAL ILLINOIS: Greenfield

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	bu.	*perct.*	*perct.*	*perct.*
Pocklington P-78A	101.3	19.4	90.2	81.6
Pocklington P-75A	101.2	18.5	87.9	83.9
Bear OK96	101.2	19.2	92.0	90.5
Pioneer 316	98.5	17.5	91.5	87.4
Pioneer 302	97.7	20.3	90.7	90.1
Canterbury 420	97.5	16.4	91.4	89.1
Canterbury 400	97.3	16.8	92.0	91.3
Ainsworth X-14-A	96.6	19.4	84.3	95.3
Whisnand 830	96.5	17.4	93.1	84.8
Whisnand 852	96.2	19.5	89.8	82.4
Moews 523	95.3	18.5	89.0	89.4
Average of all entries	**98.1**	**18.4**	**90.2**	**87.8**
Number in range	Difference necessary for significance			
2	N.S.	1.1	N.S.	N.S.
Over 2	N.S.	1.3	N.S.	N.S.
SUMMARY: 1958-1960				
DeKalb 805	106.9	18.9	88.6	88.2
Moews 524	101.8	18.5	88.8	89.0
Whisnand 834	98.5	19.0	88.7	90.1
Ainsworth X-100	97.4	20.2	92.8	94.0
Bear OK96	96.5	19.8	88.6	87.3
Moews CB69A	94.7	18.2	92.4	88.7
Bear OK878	94.6	19.5	91.4	81.0
Van Horn V.H. 111	94.3	18.7	73.3	88.2
Pocklington P-78A	94.0	20.4	88.0	82.8
Pocklington P-75A	93.7	18.0	81.5	80.4
Pioneer 309B	93.3	24.0	89.7	87.5
DeKalb 640	92.6	18.6	93.9	80.6
Illinois 2214W (Station)	92.3	20.9	84.0	89.8
Cargill 320	91.8	18.4	88.9	89.4
Moews 523	90.9	19.2	84.3	89.7
Whisnand 852	90.1	19.9	85.3	77.6
Pioneer 319	89.5	18.0	83.5	86.3
Canterbury 420	89.3	17.5	86.2	84.0
Pioneer 302	88.7	20.7	86.4	86.7
DeKalb 803A	88.7	20.7	78.2	86.4
Whisnand 830	88.5	18.2	89.5	79.4
Canterbury 400	87.9	17.6	88.6	88.1
Pioneer 316	87.2	18.6	87.2	81.1
DeKalb 3x4	86.8	19.1	79.5	86.0
Van Horn V.H. 95-1	86.0	19.2	86.0	85.3
Ainsworth X-14-A	85.1	20.3	79.8	93.9
P.A.G. 434	83.9	20.7	85.7	79.1
Average of all entries	**92.0**	**19.4**	**86.3**	**85.9**
Number in range	Difference necessary for significance			
2	N.S.	1.3	N.S.	N.S.
3-5	N.S.	1.4	N.S.	N.S.
6-10	N.S.	1.5	N.S.	N.S.
Over 10	N.S.	1.6	N.S.	N.S.
1960 RESULTS				
Ainsworth X-14-A	77.9	21.5	92.3	98.4
Ainsworth X-98	84.1	21.8	95.6	92.4
Ainsworth X-100	93.9	23.6	94.5	93.1
Bear OK55	85.3	22.1	92.6	93.1
Bear OK69	76.1	23.6	84.7	88.6
Bear OK89	72.2	25.4	92.8	96.2
Bear OK96	91.0	22.5	86.8	88.6
Bear OK878	88.0	23.0	98.3	76.5
Bear Unicorn X606	103.4	22.4	93.7	93.9
Canterbury 400	91.9	20.5	96.9	95.4
Canterbury 420	98.9	20.0	91.7	95.4
Cargill 320	83.1	22.0	89.6	96.2
Cargill 380	83.4	23.9	91.0	85.6

(Table is concluded on next page)

Table 10. — Greenfield — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
DeKalb 3x4	73.4	22.6	84.5	89.3
DeKalb 640	94.4	21.2	94.6	75.0
DeKalb 803	66.5	25.4	94.6	81.0
DeKalb 803A	83.2	24.8	88.5	87.1
DeKalb 805	107.7	21.5	98.9	87.1
DeKalb 812	90.4	22.6	93.6	93.9
DeKalb 869	69.6	22.1	97.2	84.8
DeKalb 898A	90.7	22.8	89.2	93.1
DeKalb A504	82.2	21.0	97.4	90.9
DeKalb X8034	83.3	22.7	94.3	84.0
DeKalb X72-194	85.3	23.1	88.5	86.3
DeKalb X91-005	89.4	21.9	96.5	80.3
Illinois 1332 (Station)	83.3	19.6	92.8	91.6
Illinois 1421 (Station)	91.6	21.2	87.7	90.1
Illinois 1996 (Stone)	80.6	21.2	98.0	78.7
Illinois 2214W (Station)	72.5	24.1	85.1	91.6
Illinois 3343 (Station)	97.1	22.9	98.1	83.3
Illinois 3348 (Station)	71.4	23.5	95.7	88.6
Illinois 3360 (Station)	77.6	21.9	90.2	92.4
Illinois 8001 (Station)	105.0	20.3	92.0	81.8
Moews 523	75.8	21.9	84.9	87.1
Moews 524	102.2	22.1	90.4	93.9
Moews 5094	65.6	24.3	90.0	94.6
Moews CB69A	98.4	22.0	95.1	91.6
Moews CB96A	63.8	22.9	94.2	88.6
Morton M-6X	95.4	20.4	91.5	97.7
Morton M-12A	97.6	23.3	98.1	81.0
P.A.G. 418	90.3	22.2	92.7	81.0
P.A.G. 434	84.9	24.1	89.0	90.9
P.A.G. 436 (formerly Exp. 10919)	82.1	27.1	93.6	87.1
P.A.G. 444	93.8	22.2	94.9	87.1
Pioneer 302	81.8	22.9	90.3	80.3
Pioneer 309A	74.1	28.0	86.8	90.9
Pioneer 309B	78.7	27.7	94.0	89.3
Pioneer 312A	86.6	24.8	92.2	75.0
Pioneer 316	82.7	21.3	91.6	78.0
Pioneer 319 (formerly 2990)	73.3	20.7	90.4	87.8
Pioneer 321 (formerly 4549)	74.5	24.5	97.2	84.8
Pioneer 6122	102.5	24.5	98.1	87.8
Pioneer 6261	85.2	21.8	90.3	84.8
Pioneer 80203	85.9	22.8	92.9	96.2
Pioneer X23	88.3	22.0	87.6	83.3
Pocklington P-70	83.5	21.3	91.8	71.2
Pocklington P-75A	94.9	21.5	88.6	80.3
Pocklington P-78A	87.0	23.1	89.0	81.8
Pocklington P-84	88.8	20.9	90.8	74.2
Princeton 8-A	73.1	21.5	98.4	79.5
Princeton 685	86.7	22.8	96.5	81.8
Princeton 890	86.5	22.4	98.3	80.3
Super-Crost 695 (formerly C2F)	91.1	21.6	94.6	82.5
Super-Crost 851 (formerly C1F)	78.6	23.2	87.9	74.2
Stull's 100YA	93.9	22.4	91.5	81.8
Stull's 100YN	84.5	24.0	90.6	87.8
Stull's 101YA	80.4	21.4	93.0	88.6
Van Horn V.H. 95-1	80.3	21.7	91.1	91.6
Van Horn V.H. 111	81.8	21.3	92.8	87.1
Whisnand 830	93.0	21.6	96.6	87.1
Whisnand 834	95.1	22.1	93.1	96.9
Whisnand 852	97.0	23.9	95.0	86.0
Average of all entries	**85.6**	**22.6**	**92.5**	**86.9**
Number in range	Difference necessary for significance			
2	20.5	2.4	8.4	N.S.
3-5	22.8	2.7	9.4	N.S.
6-10	24.3	2.9	10.0	N.S.
11-20	25.6	3.0	10.5	N.S.
Over 20	27.1	3.2	11.1	N.S.

Table 11. — SOUTHERN ILLINOIS: Brownstown

1960 Nominees

Ainsworth Goldline 378	Munson M-119
Ainsworth X-14-3	P.A.G. 434
Ainsworth X-14-A	P.A.G. 436 (formerly Exp. 10919)
Ainsworth X-98	P.A.G. 444
Ainsworth X-100	P.A.G. 631W
Bear OK69	P.A.G. 633W
Bear OK89	Pioneer 302
Bear OK96A	Pioneer 309A
Bear OK878	Pioneer 309B
Bear Unicorn X600	Pioneer 319 (formerly 2990)
Canterbury 400	Pioneer 321 (formerly 4549)
Canterbury 420	Pioneer 6122
Cargill 340	Pioneer 6201
Cargill 380	Pioneer 6261
Crib Filler 116	Pioneer 80203
Crib Filler 124	Pioneer X23
Crib Filler 131	Princeton 8-A
Crib Filler 138	Princeton 685
DeKalb 3x1	Princeton 888
DeKalb 803	Princeton 890
DeKalb 803A	Princeton 990W
DeKalb 805	Schenk's S-70A
DeKalb 856	Schenk's S-73
DeKalb 886	Schenk's S-80A
DeKalb 925W	Schenk's S-82
DeKalb A715	Stull's 100YA
DeKalb X82-019	Stull's 100YN
DeKalb X8034	Stull's 101YA
Illinois 1511 (Station)	Tiemann T-72
Indiana 909 (Princeton)	Tiemann T-78
Jones WJ80	Van Horn V.H. 76
Moews 523	Van Horn V.H. 95-1
Moews 525	Van Horn V.H. 100
Moews 5097	Van Horn V.H. 101
Moews CB70A	Whisnand 830
Moews CB96A	Whisnand 852

(Data insufficient for analysis.)

Table 12. — EXTREME SOUTHERN ILLINOIS: Wolf Lake

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1956-1960				
	bu.	*perct.*	*perct.*	*perct.*
Stull's 400W	103.3	17.4	97	91
DeKalb 1023	101.2	19.1	91	91
Ainsworth X-14-A	96.5	17.0	94	90
Van Horn V.H. 55W	95.5	18.2	92	90
Whisnand 830	95.3	17.1	96	91
Pioneer 302	93.1	17.7	98	95
DeKalb 925W	93.1	18.3	96	90
Illinois 1570 (Station)	92.6	16.2	97	92
P.A.G. 631W	92.5	18.2	96	88
Whisnand 851	91.1	17.8	97	90
Illinois 2214W (Station)	90.8	17.6	93	88
P.A.G. 485	90.3	17.8	95	90
Average of all entries	**94.6**	**19.4**	**95**	**91**
SUMMARY: 1958-1960				
Stull's 400W	95.1	18.7	94.7	91.7
Pioneer 309B	94.0	20.3	97.0	90.0
Illinois 1851 (Station)	93.5	17.8	94.0	91.0
DeKalb 1023	91.9	20.2	84.7	88.7
Pioneer 309A	91.8	19.6	99.0	89.0
Moews CB98W	91.7	19.7	98.0	93.0
Whisnand 852	91.3	18.3	96.0	91.0
DeKalb 1028	91.0	20.5	86.0	89.0
DeKalb 805	88.4	18.5	96.0	90.0
Pioneer 319	88.2	16.8	95.0	92.0
Ainsworth X-14-A	87.7	17.7	92.7	92.3
Van Horn V.H. 55W	86.7	19.5	91.7	92.0
Whisnand 830	86.2	17.8	94.0	92.7
Moews CB100	85.7	18.6	96.0	92.0
Pioneer 302	84.5	18.5	97.3	93.7
Illinois 1570 (Station)	84.4	16.9	96.0	96.0
Whisnand 851	84.3	18.7	94.7	87.0
DeKalb 925W	83.9	19.3	93.3	89.7
P.A.G. 485	82.7	19.0	91.3	90.0
P.A.G. 631W	82.0	19.6	94.0	85.7
Van Horn V.H. 100	78.9	16.9	93.0	88.0
Illinois 2214W (Station)	78.9	18.8	90.3	86.3
P.A.G. 434	77.8	18.2	94.0	86.0
Average of all entries	**87.0**	**18.7**	**93.9**	**90.3**

(Table is concluded on next page)

Table 12 — Wolf Lake — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1960 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Ainsworth X-14-A	63.2	18.1	90.5	86.3
Ainsworth X-100	63.4	18.9	94.7	87.8
Appl A-440	82.2	20.1	96.2	86.3
DeKalb 805	77.0	18.7	96.3	84.0
DeKalb 869	69.4	19.0	98.1	82.5
DeKalb 886	69.6	18.9	96.2	92.4
DeKalb 925W	78.6	20.7	91.2	91.6
DeKalb 1002	44.7	20.8	93.4	78.8
DeKalb 1023	92.2	21.6	84.0	84.0
DeKalb 1028	69.2	21.3	79.9	78.7
DeKalb A715	84.3	19.2	93.9	87.1
DeKalb X72-159	61.2	20.4	85.0	62.1
DeKalb X82-028	61.9	17.4	97.6	87.8
DeKalb X82-029	84.1	18.6	87.9	89.3
DeKalb X82-134	74.3	21.3	93.9	86.3
Embro 107W	68.1	21.3	100.0	68.1
Illinois 1349 (Station)	70.0	18.2	90.0	90.1
Illinois 1570 (Station)	68.0	17.1	92.7	95.4
Illinois 1851 (Station)	76.7	17.9	92.1	89.3
Illinois 2214W (Station)	64.3	19.8	96.9	72.7
Illinois 3348 (Station)	97.9	20.0	89.5	93.9
Indiana 851 (Station)	74.8	18.7	92.3	89.3
Indiana 909 (Princeton)	80.3	19.1	99.1	85.6
Jones WJ80	72.8	18.2	96.6	89.3
Moews 5097	63.0	17.4	99.0	80.3
Moews CB96A	60.8	17.8	99.0	85.6
Moews CB98W	71.8	20.7	97.4	89.3
Moews CB100	76.2	19.3	93.7	85.6
P.A.G. 434	76.0	18.6	97.3	87.8
P.A.G. 436 (formerly Exp. 10919)	81.0	20.5	99.2	90.9
P.A.G. 444	99.8	19.8	100.0	90.9
P.A.G. 480	57.5	24.2	96.3	87.1
P.A.G. 485	82.3	19.5	90.3	85.6
P.A.G. 631W	77.5	19.9	93.8	86.3
Pioneer 302	77.2	19.5	97.5	89.3
Pioneer 309A	79.7	21.7	99.1	84.0
Pioneer 309B	79.9	22.6	100.0	83.3
Pioneer 312A	88.8	19.5	97.5	91.6
Pioneer 319 (formerly 2990)	83.3	16.5	92.6	90.9
Pioneer 6122	88.8	18.7	98.4	86.3
Pioneer 6201	76.4	17.5	92.3	93.9
Pioneer 6261	81.1	17.8	87.1	87.8
Pioneer 80203	72.5	17.9	94.5	87.8
Pioneer X23	62.9	18.1	98.2	90.9
Princeton 8-A	80.4	18.2	99.1	87.8
Princeton 685	81.6	19.3	96.6	90.1
Princeton 888	77.3	18.4	92.0	84.0
Princeton 890	81.0	19.6	97.6	87.8
Princeton 990W	82.5	18.6	94.1	87.8
Schenk's S-86	72.0	19.1	90.8	76.5
Schenk's S-87	62.2	19.9	96.0	74.2
Schenk's S-90W	91.4	19.5	96.5	90.1
Schenk's S-99W	95.3	18.8	98.4	94.6
Stull's 100YA	78.5	18.2	97.3	86.3
Stull's 101YA	85.0	21.1	95.7	90.1
Stull's 400W	89.2	19.6	96.6	94.6
Stull's 400 WR	77.1	18.8	96.8	75.7
Stull's 500W	85.7	18.5	97.3	89.3
Van Horn V.H. 55W	69.5	20.4	90.4	93.1
Van Horn V.H. 100	72.3	17.0	92.7	84.8
Whisnand 830	74.4	18.3	90.5	88.6
Whisnand 851	67.6	19.7	90.9	76.5
Whisnand 852	90.4	18.9	95.6	91.6
Whisnand 917W	65.7	19.1	97.2	77.2
Average of all entries	76.0	19.3	94.6	86.2
Number in range	Difference necessary for significance			
2	N.S.	1.3	8.9	11.4
3-5	N.S.	1.4	10.0	12.7
6-10	N.S.	1.5	10.6	13.5
11-20	N.S.	1.6	11.2	14.2
Over 20	N.S.	1.6	11.6	14.8

Table 13. — INCREASED PLANTING RATES

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
NORTHERN ILLINOIS: DeKalb — 24,000 plants per acre				
	bu.	*perct.*	*perct.*	*perct.*
Summary: 1959-1960				
P.A.G. SX9 (Exp. 15018)	117.4	25.7	89.6	89.0
DeKalb 640	116.1	28.5	90.1	90.2
Illinois 1996 (Station)	114.8	26.6	80.8	93.2
Moews 48A	113.9	27.6	89.9	91.6
Doubet D413	113.4	27.6	88.7	82.5
DeKalb 440	113.3	26.5	89.7	92.8
P.A.G. 234	113.2	25.3	87.8	94.2
Wyffels W-600	113.2	27.0	87.3	96.3
Illinois (Hy2xOh7)(Station)	112.2	26.9	79.1	87.2
Pioneer 345	110.0	24.3	81.4	94.7
Moews 505A	107.7	25.5	88.5	90.9
Tomco 619	106.6	27.0	90.7	95.0
Hulting 242	105.2	25.9	89.5	89.9
Pioneer 329	104.8	27.0	87.1	90.0
DeKalb 633	104.6	28.2	87.1	90.5
Pioneer 371	103.9	22.2	87.0	90.4
DeKalb 444	100.7	26.4	91.4	91.1
Steckley's Genetic Giant 4	100.2	24.5	84.9	88.3
Sieben S-580	100.0	27.7	90.9	85.7
Moews 500A	97.6	28.1	90.6	89.3
DeKalb 400	96.2	26.3	85.6	86.5
Hulting 245	95.1	23.2	89.2	88.4
Sieben S-340	93.1	25.4	86.1	88.5
DeKalb 414	92.4	24.9	87.7	91.3
Illinois (WF9xC103)(Station)	71.7	27.1	93.0	80.4
Average of all entries	**104.7**	**26.2**	**87.7**	**89.9**
Number in range	Difference necessary for significance			
2	N.S.	2.1	N.S.	N.S.
3-5	N.S.	2.3	N.S.	N.S.
6-10	N.S.	2.4	N.S.	N.S.
Over 10	N.S.	2.5	N.S.	N.S.
1960 Results				
Bear Unicorn X600	91.3	27.0	72.3	90.9
Cargill 939	88.3	30.6	91.2	85.3
Cargill 5929	103.6	30.2	93.2	89.3
DeKalb 400	91.4	28.8	81.4	79.7
DeKalb 414	101.3	27.1	89.9	90.4
DeKalb 427	98.9	28.2	94.0	94.4
DeKalb 440	110.3	29.5	91.0	93.4
DeKalb 441	97.7	29.5	93.4	84.3
DeKalb 444	112.9	28.7	94.3	88.8
DeKalb 459	89.6	28.7	70.1	79.2

(Table is continued on next page)

Table 13. — Increased Planting Rates — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
	bu.	*perct.*	*perct.*	*perct.*
1960 Results — DeKalb — concluded				
DeKalb 633	109.1	30.9	87.6	89.3
DeKalb 640	111.6	32.4	94.3	89.3
DeKalb A301	100.7	29.0	87.4	91.4
DeKalb A506 (Formerly X4008)	109.1	29.1	96.0	87.3
DeKalb X72-076	100.0	26.4	83.6	89.3
Doubet D413	115.0	30.6	88.7	81.8
Hulting 242	109.8	28.9	97.7	90.4
Hulting 245	92.0	25.2	92.1	86.8
Illinois 1996 (Station)	120.1	28.7	81.1	91.4
Illinois 3042 (Station)	109.9	30.9	85.9	86.3
Illinois 3152 (Station)	103.6	28.8	85.9	83.8
Illinois 3182A (Station)	98.1	28.0	78.9	90.9
Illinois 3302A-1 (Station)	101.0	26.9	90.1	89.8
Illinois 3315A (Station)	89.6	30.2	89.8	77.2
Illinois 3348	121.6	31.3	75.9	91.9
Illinois Hy2xOh7 (Station)	125.2	29.8	79.1	83.3
Illinois WF9xC103 (Station)	101.2	29.9	97.8	68.6
Moews 48A	104.9	30.4	93.8	89.8
Moews 500A	100.7	31.5	92.6	89.8
Moews 505A	105.0	29.0	89.5	87.3
Moews CB65A	91.0	32.7	91.8	95.9
Muncy Chief H522	98.4	32.2	92.7	91.4
Muncy Chief H780	108.0	30.7	91.4	90.9
P.A.G. 234	112.8	27.7	90.6	92.4
P.A.G. 285	111.2	27.6	97.8	93.4
P.A.G. SX9 (formerly Exp. 15009)	98.6	28.9	87.4	83.3
P.A.G. Exp. 15018	116.0	26.9	95.1	90.4
Pioneer 320	101.1	29.9	84.2	94.9
Pioneer 321 (formerly 4549)	102.1	31.8	80.5	86.8
Pioneer 329	110.0	30.3	91.4	88.8
Pioneer 345	114.3	25.4	82.5	92.9
Pioneer 354	99.7	27.2	83.6	89.8
Pioneer 371	93.2	23.9	88.2	90.9
Pioneer 5536	106.2	29.6	89.2	92.9
Pioneer 6707	103.1	26.7	83.4	90.9
Pioneer 80201	106.7	32.2	88.6	81.8
Sieben S-340	95.0	27.5	89.4	84.3
Sieben S-440	98.8	31.2	85.4	88.8
Sieben S-440E	116.3	30.4	90.8	87.8
Sieben S-580	96.4	31.4	94.2	84.3
Steckley's Genetic Giant 1	74.2	26.3	78.4	86.8
Steckley's Genetic Giant 4	101.7	27.5	81.2	88.8
Steckley's Genetic Giant 12	106.4	30.5	88.3	81.8
Stewart S-94	100.4	28.2	94.4	90.4
Tomco 619	99.5	29.3	90.8	94.4
Wyffels W-600	106.3	30.6	88.8	94.4
Average of all entries	**103.2**	**29.2**	**88.2**	**88.2**
Number in range	Difference necessary for significance			
2	20.3	3.1	10.7	N.S.
3-5	22.6	3.5	11.9	N.S.
6-10	24.0	3.7	12.7	N.S.
11-20	25.1	3.9	13.3	N.S.
Over 20	25.6	4.0	13.5	N.S.

(Table is continued on next page)

Table 13. — Increased Planting Rates — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
EAST-CENTRAL ILLINOIS: Urbana — 24,000 plants per acre				
	bu.	*perct.*	*perct.*	*perct.*
Summary: 1959-1960				
Whisnand 850	104.8	20.6	74.9	86.8
Bear Unicorn X710	104.8	21.5	81.0	88.8
Illinois Hy2xOh7 (Station)	104.1	20.2	79.2	87.3
P.A.G. Exp. 15017	103.5	17.3	99.1	84.3
Pioneer 319	101.2	20.6	89.0	91.3
P.A.G. 418	100.7	21.4	88.2	94.9
Mountjoy M-55	100.4	19.8	91.5	85.4
Illinois 1332 (Station)	100.1	19.0	82.7	92.8
Pioneer 321 (formerly 4549)	97.3	20.7	81.7	87.5
Whisnand 830	96.5	19.5	89.8	84.7
Bear OK69	94.9	21.1	73.0	89.4
Whisnand 852	94.9	21.9	76.5	86.1
DeKalb 805	94.8	20.1	93.5	91.9
Todd 635	94.8	20.8	88.3	84.1
Illinois 1996 (Station)	94.8	20.9	81.8	89.6
P.A.G. SX9 (Exp. 15009)	94.4	19.7	95.6	85.3
Steckley's Genetic Giant 12	94.3	20.2	90.5	80.0
DeKalb 633	93.4	20.3	87.6	84.8
McAllister 77A	92.5	19.9	96.7	87.7
McAllister E.X.A. 1	91.5	20.1	92.6	84.6
Moews 524A	90.0	22.3	92.9	90.2
Doubet D413	89.7	21.6	80.4	86.0
Frey 892	89.6	20.6	85.2	87.4
DeKalb 803A	89.5	21.4	69.1	85.9
Illinois 1421 (Station)	89.4	21.6	61.1	91.9
DeKalb 640	88.3	19.5	88.9	88.0
Pioneer 309B	88.2	24.8	70.8	88.0
Pioneer 302	88.0	22.5	83.8	94.1
Pioneer 309A	87.6	22.9	68.8	88.9
Pioneer 5625	81.8	21.6	94.3	90.9
Pioneer 312A	80.9	20.8	87.7	91.6
Average of all entries	**94.1**	**20.8**	**84.4**	**88.1**
Number in range	Difference necessary for significance			
2	N.S.	1.5	16.5	N.S.
3-5	N.S.	1.6	18.3	N.S.
6-10	N.S.	1.7	19.2	N.S.
Over 10	N.S.	1.8	19.8	N.S.
1960 Results				
Bear OK55	85.8	19.8	81.6	90.4
Bear OK69	85.7	21.5	56.9	93.9
Bear Unicorn X600	73.2	18.7	35.1	91.9
Bear Unicorn X710	91.5	21.3	68.8	94.4
Canterbury 420	94.1	19.5	78.0	91.9
Crib Filler 70	99.2	18.6	90.4	90.4
Crib Filler 116	96.1	19.9	67.0	87.8
Crib Filler 123	97.4	21.3	85.3	90.9
DeKalb 3x1	91.4	19.4	64.5	85.8
DeKalb 633	92.5	20.3	91.1	91.4

(Table is continued on next page)

Table 13. — Increased Planting Rates — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
	bu.	*perct.*	*perct.*	*perct.*
1960 Results — Urbana — continued				
DeKalb 640	78.3	19.0	83.1	88.8
DeKalb 803	86.2	20.1	84.2	94.4
DeKalb 803A	85.8	21.6	66.2	85.8
DeKalb 805	105.9	20.1	89.7	94.4
DeKalb 869	89.7	19.9	80.5	90.4
DeKalb 898A	86.4	18.9	65.3	93.9
DeKalb A504	92.6	17.9	72.6	98.4
DeKalb A703	94.2	20.8	72.7	92.4
DeKalb X8034	86.9	19.6	75.0	94.9
DeKalb X91-005	87.1	20.2	83.5	85.8
Doubet D413	90.9	21.2	77.3	90.4
Embro 44XE	101.6	22.0	87.9	95.9
Frey 892	86.8	19.2	80.2	89.3
Frey Exp. 60	97.4	20.4	70.5	84.8
Illinois 1332 (Station)	93.0	18.7	72.8	93.9
Illinois 1421 (Station)	79.7	21.9	50.0	93.9
Illinois 1996 (Station)	98.3	20.0	72.8	94.9
Illinois 8006 (Station)	91.3	19.8	50.5	97.9
Illinois Hy2xOh7 (Station)	94.3	19.6	73.3	86.8
Indiana 851 (Station)	92.4	21.0	87.0	81.3
McAllister 77A	88.2	19.9	95.9	89.3
McAllister E.X.A. 1	92.5	19.9	96.3	84.3
Moews 524A	91.3	22.3	89.2	95.4
Moews CB65A	88.0	20.3	83.2	90.4
Moews CB69A	80.2	21.3	86.5	96.4
Moews CB90A	88.9	20.3	65.9	91.9
Monier 6-M-6	110.9	20.0	74.8	93.9
Mountjoy M-55	102.1	19.3	89.3	90.4
Null N-26	96.0	19.5	76.5	93.9
P.A.G. 418	100.5	21.5	85.8	94.9
P.A.G. 444	104.4	22.1	67.5	91.4
P.A.G. SX9 (formerly Exp. 15009)	83.8	19.4	94.2	92.9
P.A.G. SX14 (formerly Exp. 15014)	85.5	18.9	92.1	88.8
P.A.G. SX19 (formerly Exp. 15019)	118.0	20.6	65.7	90.4
P.A.G. Exp. 15017	102.2	17.6	98.2	90.9
Pioneer 302	88.7	23.3	80.3	95.4
Pioneer 309A	96.8	22.5	42.9	92.9
Pioneer 309B	102.1	24.6	60.0	89.3
Pioneer 312A	96.7	20.1	80.8	95.4
Pioneer 319 (formerly 2990)	104.0	20.6	83.3	95.9
Pioneer 321 (formerly 4549)	92.6	20.8	78.5	93.9
Pioneer 3756A	104.4	18.2	73.0	91.9
Pioneer 5625	79.1	22.3	91.8	92.4
Pioneer 6201	97.8	18.6	88.8	92.4
Pioneer 6261	87.2	20.1	67.5	94.9
Pioneer 80202	107.3	18.4	86.7	87.8
Pioneer X23	98.1	20.0	86.9	88.3
Steckley's Genetic Giant 12	87.7	18.7	86.9	82.3
Todd 424	81.1	18.2	95.3	85.8
Todd 635	96.8	20.5	84.4	89.8
Todd 645	103.4	18.9	97.2	93.4
Whisnand 830	101.9	18.8	88.7	93.4
Whisnand 850	95.8	20.2	71.2	90.4
Whisnand 852	89.2	21.3	69.9	88.8
Average of all entries	**93.3**	**20.2**	**78.0**	**91.4**
Number in range	Difference necessary for significance			
2	**N.S.**	2.0	**17.1**	**N.S.**
3-5	**N.S.**	2.3	**19.1**	**N.S.**
6-10	**N.S.**	2.4	**20.3**	**N.S.**
11-20	**N.S.**	2.5	**21.4**	**N.S.**
Over 20	**N.S.**	2.6	**22.3**	**N.S.**

(Table is continued on next page)

Table 13. — Increased Planting Rates — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
WEST SOUTH-CENTRAL ILLINOIS: Greenfield, 20,000 plants per acre				
	bu.	*perct.*	*perct.*	*perct.*
Summary: 1959-1960				
Pioneer 321 (formerly 4549)	110.7	20.6	77.4	88.0
Illinois 1332 (Station)	108.2	19.8	74.6	82.9
DeKalb 640	102.6	18.7	75.9	87.6
Doubet D413	102.2	20.2	76.9	83.9
Pioneer 312A	101.8	22.6	77.1	76.9
Whisnand 850	100.8	20.7	71.3	76.1
Illinois 1421 (Station)	100.7	20.2	67.8	89.9
Moews CB69A	99.7	20.7	88.7	84.9
Moews CB60A	99.6	20.1	80.1	80.0
DeKalb 803A	99.6	21.9	63.3	85.1
Bear OK69	98.7	20.6	77.9	85.5
DeKalb 805	97.4	21.4	73.7	89.8
P.A.G. 415	96.9	20.4	79.2	84.0
Pioneer 309B	96.7	25.4	74.5	90.0
Whisnand 830	95.5	20.1	76.7	80.3
Whisnand 852	95.3	21.8	72.0	83.9
Illinois (Hy2xOh7) (Station)	94.9	20.7	60.4	85.5
Moews CB96A	94.0	18.8	80.3	86.2
Moews 523	93.4	19.9	79.5	84.9
Pioneer 319	93.3	19.2	74.0	78.8
P.A.G. 444	91.6	23.3	73.3	83.3
Moews 525	91.2	21.0	83.3	80.5
Pioneer 302	89.3	24.0	72.8	88.6
DeKalb 869	88.8	21.8	75.8	88.5
Bear Unicorn X710	87.8	22.0	67.0	82.1
Pioneer 316	86.9	20.7	69.9	81.4
DeKalb 898A	79.7	20.3	61.9	83.4
Average of all entries	**96.2**	**21.0**	**74.3**	**84.1**
Number in range	Difference necessary for significance			
2	N.S.	1.8	N.S.	N.S.
3-5	N.S.	2.0	N.S.	N.S.
6-10	N.S.	2.1	N.S.	N.S.
Over 10	N.S.	2.2	N.S.	N.S.

(Table is concluded on next page)

Table 13. — Increased Planting Rates — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
	bu.	*perct.*	*perct.*	*perct.*
1960 Results — Greenfield				
Bear OK69	66.1	22.0	92.1	83.0
Bear Unicorn X710	84.4	23.1	95.0	76.3
DeKalb 3x4	92.7	22.0	94.0	82.4
DeKalb 640	102.0	20.6	96.2	81.2
DeKalb 803	94.3	23.1	98.6	76.9
DeKalb 803A	103.9	23.1	91.3	83.6
DeKalb 805	90.7	23.7	99.3	89.0
DeKalb 812	88.1	22.8	98.6	80.0
DeKalb 869	79.1	24.3	95.2	89.0
DeKalb 898A	78.1	21.8	88.8	76.9
DeKalb A504	91.7	21.0	96.3	82.4
DeKalb X8034	93.1	20.7	94.0	89.0
DeKalb X72-194	79.4	23.6	85.9	99.3
DeKalb X91-005	94.7	22.9	98.7	80.0
Doubet D413	97.1	21.1	91.4	81.2
Illinois 1332 (Station)	100.1	22.7	97.5	81.2
Illinois 1421 (Station)	97.4	20.7	91.8	93.9
Illinois Hy2xOh7 (Station)	87.1	22.8	96.2	81.8
Moews 523	81.9	21.6	91.8	80.6
Moews 525	79.2	22.8	94.7	75.7
Moews 5097	53.5	21.5	99.1	76.9
Moews CB60A	94.0	21.0	93.5	65.4
Moews CB69A	89.9	22.7	99.1	73.9
Moews CB96A	78.4	21.7	96.8	82.4
P.A.G. 415	90.9	22.3	97.1	78.7
P.A.G. 444	87.4	25.2	93.1	79.3
P.A.G. SX14 (formerly Exp. 15014)	80.3	23.4	100.0	72.7
P.A.G. SX19 (formerly Exp. 15019)	117.2	22.5	93.3	90.9
Pioneer 302	79.6	25.8	91.4	87.2
Pioneer 309A	94.8	25.6	98.1	90.9
Pioneer 309B	79.8	27.2	89.7	86.0
Pioneer 312A	82.7	24.3	90.4	67.8
Pioneer 316	77.0	23.1	96.2	76.9
Pioneer 319 (formerly 2990)	72.2	20.0	92.3	75.7
Pioneer 321 (formerly 4549)	97.8	21.7	95.7	86.6
Pioneer 6122	82.4	24.4	100.0	78.7
Pioneer 6261	76.2	22.7	92.0	77.5
Pioneer 80203	90.8	21.0	94.0	83.6
Pioneer X23	89.9	24.7	98.4	81.8
Whisnand 830	86.8	21.8	90.0	78.7
Whisnand 850	92.1	21.5	96.5	70.3
Whisnand 852	94.2	24.0	93.9	81.2
Average of all entries	**87.4**	**22.7**	**94.7**	**81.1**
Number in range	Difference necessary for significance			
2	23.9	3.5	7.3	N.S.
3-5	26.7	3.9	8.0	N.S.
6-10	28.3	4.1	8.6	N.S.
11-20	29.6	4.3	9.0	N.S.
Over 20	29.8	4.3	9.0	N.S.

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