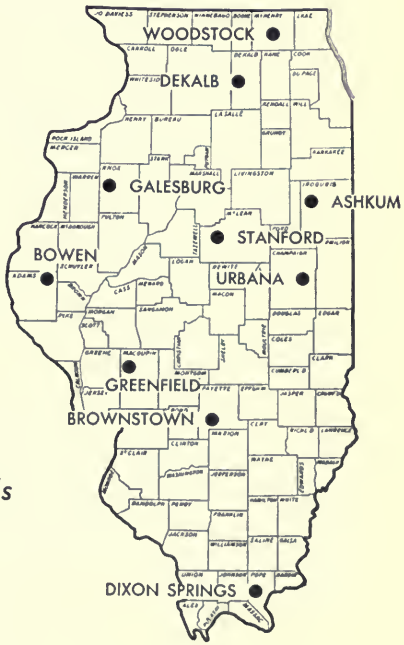
1961 Performance of COMMERCIAL CORN HYBRIDS in Illinois

By Earl R. Leng
G. L. Ross



Location of 1961 test fields

Bulletin 682

UNIVERSITY OF ILLINOIS · AGRICULTURAL EXPERIMENT STATION

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Special acknowledgment is due R. D. Seif for processing the data. Acknowledgment is also due the following individuals for assistance with individual tests: A. R. Kemp and Don Teel, farm adviser and assistant in Knox county, for assistance with the test at Galesburg; Carlin Morton for assistance with the test at Bowen; and George McKibben for assistance with the test at Dixon Springs Experiment Station.

Urbana, Illinois March, 1962

Publications in the Bulletin series report the results of investigations made or sponsored by the Experiment Station

PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 1961

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

A bumper 1961 corn crop of almost 642 million bushels was estimated for Illinois — 5 percent less than the peak production established in 1960. The average yield of 77 bushels per acre was 8 bushels above the all-time high yield of 69 bushels established in 1958. The crop generally appeared to be of excellent quality although stalk breakage was prevalent in most areas. Very little of the late corn was damaged by frost.[2]

PLAN OF THE TESTS

Number of hybrids and their sources. In 1961, 444 hybrids were grown in 31 major tests at ten locations in the state. Fifty-nine companies and individuals, as well as the Illinois Agricultural Experiment Station, furnished seed for the tests.

Nine of the test fields were located at the same places as in 1957, 1958, 1959, and 1960. The other field was located at the Dixon Springs Experiment Station. 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

[1] Earl R. Leng, Professor of Plant Breeding and Genetics; 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, 1961

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, 49	May 15	Oct. 30–31	78.0	25.4	49.9	87.1
DeKalb: DeKalb, N, 100.....	May 14	Oct. 26	100.8	26.3	65.4	85.4
Galesburg: Knox, WNC, 132....	May 12	Nov. 2	117.7	21.9	88.5	87.4
Askum: Iroquois, ENC, 100.....	May 16	Nov. 7	105.3	21.2	62.2	87.3
Bowen: Hancock, WC, 72.....	May 13	Oct. 12	105.0	24.7	92.6	86.6
Stanford: McLean, C, 100.....	May 4	Oct. 19–20	108.1	21.7	89.8	85.5
Urbana: Champaign, EC, 121....	May 16	Oct. 10–11	111.7	28.0	88.0	82.5
Greenfield: Macoupin, WSC, 81..	May 20	Nov. 9	95.3	19.0	67.7	88.2
Brownstown: Fayette, S, 72.....	May 29	Oct. 18	102.7	23.7	93.3	89.2
Dixon Springs: Pope, Ex. S, 60....	June 13	Nov. 28	100.7	23.6	90.5	81.9
Increased planting rate						
DeKalb: DeKalb, N, 42.....	May 14	Oct. 26	98.4	26.2	50.8	88.1
Urbana: Champaign, EC, 50.....	May 16	Oct. 10–11	106.5	27.5	81.1	88.0
Greenfield: Macoupin, WSC, 35..	May 20	Nov. 9	89.6	17.4	75.2	85.3

COOPERATORS: EARL HUGHES, *McHenry county;* RALPH ANDERSON, *Knox county;* DON PETERSON and MERLE DIEFENBACH, *Iroquois county;* ELDON GOLDEN, *Hancock county;* ROBERT BUTH, *McLean county;* CHARLES ROSS, *Macoupin county;* DIXON SPRINGS EXPERIMENT STATION, *Pope 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 GEORGE MCKIBBEN supervised field operations on the *Pope county* test field.

available hybrids. Experimental hybrids and standard open-pedigree hybrids produced by the Illinois Station also are included in certain of the tests.

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, Dixon Springs, 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.

Table 2. — TEST FIELDS: Soil Characteristics, Management Practices, and Rainfall in 1961

Soil type	Lime requirement	Available phosphorus	Available potassium	Previous crops and rainfall
			Extreme Northern: Woodstock	
Proctor silt loam	0	High	High	Pasture 1960; pasture 1959; pasture 1958. Rainfall (inches): May 1.96; June 3.02; July 3.32; Aug. 1.98.
			Northern: DeKalb	
Flanagan silt loam	0	High	High	Clover 1960; oats and clover 1959; corn 1958. Rainfall (inches): May 1.82; June 1.95; July 3.96; Aug. 2.25.
			West North-Central: Galesburg	
Sable silty clay loam	0	High	High	Pasture (alfalfa and orchard grass) 1960; oats 1959; corn 1958. Rainfall (inches): May 1.04; June 2.88; July 7.89; Aug. 2.23.
			East North-Central: Ashkum	
Pella clay loam	1	High	Medium	Corn 1960; corn 1959; corn 1958. Rainfall (inches): May 2.40; June 2.23; July 3.85; Aug. 2.46.
			West-Central: Bowen	
Virden silty clay loam	0	High	High	Corn 1960; corn 1959; corn 1958. Rainfall (inches): May 3.96; June 4.17; July 19.50; Aug. 3.77.
			Central: Stanford	
Muscatine silt loam	0	High	High	Corn 1960; pasture 1959; wheat 1958. Rainfall (inches): May 4.10; June 2.50; July 6.27; Aug. 3.52.
			East-Central: Urbana	
Drummer silt loam	0	High	High	Alfalfa 1960; alfalfa 1959; corn 1958. Rainfall (inches): May 5.46; June 6.47; July 2.80; Aug. 1.27.
			West South-Central: Greenfield	
Herrick silt loam	0	High	Medium	Wheat 1960; corn 1959; corn 1958. Rainfall; (inches): May 4.46; June 2.30; July 7.60; Aug. 2.61.
			Southern: Brownstown	
Cisne silt loam	0	High	High	Wheat and catch crop 1960; oats and catch crop 1959; soybeans 1958. Rainfall (inches): May 7.10; June 4.58; July 7.36; Aug. 4.64.
			Extreme Southern: Dixon Springs	
Bonnie sandy clay	0	Low	High	Hay 1960; Hay 1959; Hay 1958. Rainfall (inches): May 9.50; June 4.58; July 7.36; Aug. 4.64.

GROWING CONDITIONS

The 1961 growing season was exceptionally favorable throughout the state, except that excessive moisture delayed planting in some localities and spread the planting operations over about 4 weeks. Moisture and temperature conditions were generally favorable for the entire state from June through August. 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 and Greenfield tests. 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.

Stalk breakage and lodging were severe throughout most of the state in 1961. A number of factors contributed to make the prevalence of lodging the most severe in recent years. Weather conditions in September favored the development of stalk rot diseases, especially *Gibberella,* which caused widespread premature dying and stalk breakage. The rapid early growth and high yield also apparently led to shortages of strengthening material even in nondiseased stalks. Windy and rainy weather in late September and October led to excessive lodging of stalks weakened by disease or developmental conditions. On the test fields, lodging was especially severe at Woodstock, DeKalb, and Ashkum. Stalk breakage was more prevalent than usual at all other test locations except Brownstown.

MEASURING PERFORMANCE

The entries of the 1961 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 1961 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 1961 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
Ainsworth Hybrids	Ainsworth Seed Co.	Mason City
Appl Hybrids	Appl's Seed Co.	208 N. Main St., St. Joseph
Bear Hybrids	Bear Hybrid Corn Co.	Box 628, Decatur
Bunning Hybrids	Bunning Seed Co.	Moweaqua
Burgdorf's Hybrids	Burgdorf's Seed Co.	5101 W. Broadway, Evansville, Indiana

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

Canterbury Hybrids	C. E. Canterbury Seed Co.	Cantrall
Cargill Hybrids	Cargill, Inc.	200 Grain Exchange Bldg., Minneapolis 15, Minn.
Cornelius Hybrids	Cornelius Hybrid Corn Co.	Bellevue, Iowa
Corn King Hybrids	Valley View Farm	Pierson, Iowa
Corn of Tomorrow Hybrids	Corn of Tomorrow Seed Corn Co.	Storm Lake, Iowa
Crib Filler Hybrids	Mitchell Farms	Windfall, Ind.
DeKalb Hybrids	DeKalb Agriculture Assn., Inc.	310 N. 5th St., DeKalb
Embro Hybrids	Ed. F. Mangelsdorf and Bros., Inc.	1020 S. 4th St., P. O. Box 327, St. Louis 66, Mo.
Farmers Union Hybrids	Farmers Union Seed Co.	Box 352, Cedar Falls, Iowa
Forster Hybrids	Forster Seed Co.	Donnellson, Iowa
Frey Hybrids	Frey Hybrid Corn Co., Inc.	Gilman
Gutwein Hybrids	Fred Gutwein and Sons	Francesville, Ind.
Hilligoss Hybrids	Hilligoss Corp.	McCordsville, Ind.
Hulting Hybrids	G. E. Hulting and Son, Inc.	Geneseo
Illinois Hybrids	Illinois Agr. Exp. Station	Urbana
	George Pfeifer Seed Co.	Arcola
	Stone Seed Co.	Pleasant Plains
Jones Hybrids	Jones Farm Store & Elevator Co.	Ridgeway
Lewis Hybrids	Frank W. Lewis and Son Seed Farms	Ursa
McAllister Hybrids	McAllister Seed Farms	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
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
Pride Hybrids	Pride Co., Inc.	Glen Haven, Wisconsin
Princeton Hybrids	Princeton Farms	P. O. Box 319, Princeton, Ind.
Purple Ribbon Hybrids	Silver Lane Hybrids, Inc.	Remington, Ind.
Schenk's Hybrids	Charles H. Schenk and Sons, Inc.	Vincennes, Ind.
Schwenk's Hybrids	Schwenk Seed Co.	Edwards
Sieben Hybrids	Sieben Hybrids	Geneseo
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	Edw. 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, LaFontaine, Ind.
United-Hagie Hybrids	United-Hagie Hybrids, Inc.	503 Park Street, Des Moines 9, Iowa
Van Horn Hybrids	Van Horn Hybrids, Inc.	Cerro Gordo
Van's V-8 Hybrids	Birdseye Farming and Management Co.	Rocky Mount, North Carolina
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 26 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. 1332...(WF9×38-11)(Hy2×Oh7)
Ill. 1421...(WF9×Hy2)(P8×Oh7)
Ill. 1660...(K4×K201)(Oh7×CI.21E)
Ill. 1952...(M14×B14)(A545×W64A)
Ill. 1983...(Hy2×B14)(WF9×38-11)
Ill. 1996...(Hy2×Oh7)(B14×C103)
Ill. 3160...(WF9×Oh7)(B14×Oh43)
Ill. 3266...(R74×R109B)(WF9×Oh43)
Ill. 3270...(R74×R168)(WF9×Oh43)
Ill. 3291...(P8×WF9)(B14×Oh43)
Ill. 3303...(M14×Oh43)(R172×B14)
Ill. 3343.....(R71×R74)(H49×H55)
Ill. 3346.....(R71×R168)(H49×H55)
Ill. 3347.....(R74×R101)(H49×H55)
Ill. 3348.....(R74×R109B)(H49×H55)
Ill. 3367.....(R74×WF9)(Oh7×CI.21E)
Ill. 3382.....(R109B×WF9)(B14×Oh43)
Ill. 3383.....(M14×WF9)(R172×Oh43)
Ill. 3384.....(Hy2×Oh7)(WF9×Oh41)
Ill. 8001.....(Hy2×R138)(Oh7×Oh7B)
Ill. 8003.....(WF9×Oh7)(H55×C103)
Ill. Exp. 61-1..(88-4A)(Hy2×07)(A110)
Ill. Exp. 61-2..(249-4A)(Hy2×07)
Ill. Exp. 61-3..(294A)(Hy2×07)

Table 3. — EXTREME NORTHERN ILLINOIS: Woodstock

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1961				
	bu.	*perct.*	*perct.*	*perct.*
Moews 500A	105.2	26.1	59.6	92.2
P.A.G. 305	97.7	26.0	74.7	91.3
Pioneer 371	96.8	21.8	67.2	91.6
DeKalb 444	95.1	26.3	76.6	90.3
Pioneer 354	94.6	24.6	65.4	86.1
Moews 14E	93.6	24.8	61.9	91.1
DeKalb 414	92.1	25.7	68.4	91.1
P.A.G. 62	91.7	22.6	56.8	89.7
P.A.G. 234	91.6	24.4	64.1	93.0
Average of all entries	**95.4**	**24.7**	**65.1**	**90.7**
Number in range		Difference necessary for significance		
2	9.1	2.2	N.S.[a]	N.S.
3-5	10.2	2.6	N.S.	N.S.
6-9	10.8	3.0	N.S.	N.S.
SUMMARY: 1959-1961				
Moews 500A	100.0	25.2	62.4	89.2
DeKalb 400	98.8	24.3	53.4	87.8
Moews 48A	95.4	24.4	75.5	89.7
Hulting 242	95.2	22.8	72.2	89.8
Pioneer 371	94.3	20.8	67.3	94.0
P.A.G. 305	91.9	24.6	68.9	90.2
Cornelius 404B	91.5	23.2	66.2	89.7
Hulting 238	91.4	23.8	54.2	91.0
Moews 14E	91.2	24.2	62.1	93.7
DeKalb 440	90.3	24.5	72.4	90.8
Pioneer 354	89.1	23.7	57.0	90.1
DeKalb 444	89.0	25.1	74.6	91.2
Cargill 180	88.5	24.0	62.1	85.8
P.A.G. 62	88.4	21.9	53.8	92.5
DeKalb 414	88.2	23.7	66.1	90.6
P.A.G. 234	85.2	23.7	65.4	94.6
Average of all entries	**91.8**	**23.7**	**64.6**	**90.7**
Number in range		Difference necessary for significance		
2	N.S.	1.6	14.1	N.S.
3-5	N.S.	1.8	15.7	N.S.
6-10	N.S.	1.9	16.7	N.S.
11-16	N.S.	2.0	17.2	N.S.

[a] "N.S." indicates that differences between entries were not great enough to be statistically significant.

(Table is continued on next page)

Table 3. — Woodstock — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1960-1961				
	bu.	*perct.*	*perct.*	*perct.*
DeKalb 640	92.0	27.8	80.1	89.7
Cargill S412 (5929)	91.5	24.9	78.7	84.0
Illinois 1952 (Station)	86.5	23.4	68.7	93.5
Embro 44XE	86.2	28.2	78.9	93.9
DeKalb 400	86.0	25.0	67.5	87.1
Pioneer 6707	85.9	24.4	76.7	92.0
Pioneer 3481 (6670)	85.3	23.5	65.2	88.6
P.A.G. 285	84.9	25.0	68.2	96.5
DeKalb 238	84.6	23.8	67.0	95.0
Pioneer 371	84.2	21.0	71.1	93.9
P.A.G. 305	83.9	25.4	75.6	87.8
Northrup-King KT628	83.3	26.5	66.1	92.0
Moews 500A	83.2	25.9	64.4	85.9
Moews 14E	82.7	25.1	74.2	94.3
DeKalb 633	82.7	28.9	74.3	88.2
DeKalb 414	82.4	24.2	76.0	94.3
Hulting 238	82.3	24.9	67.8	88.6
DeKalb 441	82.3	25.5	72.1	88.6
Cornelius 404B	82.0	24.4	73.0	86.3
Moews 48A	81.9	25.3	79.3	87.1
Hulting 260SC	81.6	24.5	68.9	83.7
Hulting 242	81.5	23.5	77.7	89.3
DeKalb A301	79.2	24.9	79.3	86.3
DeKalb 440	79.0	25.4	78.5	87.8
DeKalb 444	78.2	26.2	78.5	89.3
Cargill 180	77.9	25.0	66.5	86.7
P.A.G. 62	77.0	22.1	56.1	91.2
Pioneer 354	76.4	24.6	59.1	89.7
P.A.G. 234	76.3	24.3	67.4	96.5
Average of all entries	**82.8**	**25.0**	**71.6**	**89.9**
Number in range		Difference necessary for significance		
2	**N.S.**	**2.4**	**13.2**	**N.S.**
3-5	**N.S.**	**2.7**	**14.7**	**N.S.**
6-10	**N.S.**	**2.9**	**15.6**	**N.S.**
11-29	**N.S.**	**3.0**	**16.3**	**N.S.**

(Table is concluded on next page)

Table 3. — Woodstock — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Cargill 180	72.4	26.3	50.1	87.1
Cargill 240	79.2	24.7	59.3	87.8
Cargill 255	67.4	24.7	22.1	89.3
Cargill 677	75.3	22.8	57.2	92.4
Cargill S412 (Formerly 5929)	92.0	24.7	63.5	81.0
Cornelius 404B	73.4	25.6	51.0	81.8
Corn King 113	85.7	23.4	56.5	90.9
DeKalb 238	87.1	25.4	39.7	93.9
DeKalb 400	81.7	27.1	43.0	91.6
DeKalb 414	83.6	25.8	56.9	90.9
DeKalb 415A	72.5	26.8	51.7	90.9
DeKalb 440	70.1	25.8	59.3	90.9
DeKalb 441	75.2	27.5	49.1	84.8
DeKalb 444	72.3	28.1	61.0	83.3
DeKalb 633	79.8	29.3	54.8	90.9
DeKalb 640	85.5	28.5	61.1	87.8
DeKalb A301	75.3	25.7	61.9	78.7
DeKalb B116	76.4	27.1	59.2	90.9
Embro 44XE	83.5	30.5	66.3	90.1
Hulting 218	71.1	23.4	61.1	75.7
Hulting 222	62.8	23.6	58.4	87.1
Hulting 237	79.5	22.9	48.3	81.8
Hulting 238	78.4	26.8	48.0	82.5
Hulting 242	84.1	24.7	64.0	94.6
Hulting 260SC	78.7	25.1	47.6	75.0
Illinois 1952 (Station)	84.2	23.6	44.8	92.4
Moews 14E	80.5	27.9	62.5	90.9
Moews 48A	84.7	25.5	62.4	87.1
Moews 500A	72.7	25.8	34.5	78.7
Moews M540	80.0	26.9	65.1	90.1
Monier 5-M-5-1	78.2	24.5	54.4	90.9
Northrup King KM589	88.2	25.7	57.0	87.8
Northrup King KT1	81.8	24.7	62.6	87.1
Northrup King KT628	84.8	25.5	48.7	90.9
P.A.G. 62	77.3	23.7	31.6	88.6
P.A.G. 70	70.9	23.4	38.0	77.2
P.A.G. 234	70.0	25.7	47.8	94.6
P.A.G. 285	90.1	25.6	44.8	93.9
P.A.G. 305	76.7	25.5	52.9	82.5
P.A.G. Exp. 15104	78.6	26.2	32.0	81.0
Pioneer 342B	73.8	25.4	31.3	93.9
Pioneer 342C	79.5	26.2	26.1	92.4
Pioneer 354	71.8	25.8	29.2	84.8
Pioneer 354A	74.6	23.4	29.9	81.8
Pioneer 371	84.9	20.8	50.9	90.1
Pioneer 3481 (Formerly 6670)	75.9	24.4	38.7	84.0
Pioneer 6707	75.2	25.7	59.8	88.6
Pioneer 7278	71.5	23.1	54.8	84.0
Tomco 583	73.4	25.2	34.4	84.0
Average of all entries	**78.0**	**25.4**	**49.9**	**87.1**
Number in range	Difference necessary for significance			
2	12.6	2.9	22.6	11.8
3-5	14.1	3.2	25.2	13.1
6-10	15.0	3.4	26.8	14.0
11-20	15.6	3.6	28.0	14.6
Over 20	15.9	3.7	28.5	14.8

Table 4. — NORTHERN ILLINOIS: DeKalb

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1961				
	bu.	*perct.*	*perct.*	*perct.*
Hulting 242	114.0	24.9	93.7	94.8
Pioneer 329	113.5	25.2	88.8	92.9
Wyffels W-600	112.0	27.5	93.0	94.0
Moews 500A	111.5	26.8	83.7	89.2
DeKalb 633	110.5	28.4	89.7	91.8
Moews CB65A	109.9	26.1	87.0	90.7
P.A.G. 305	109.8	25.7	89.4	91.2
Frey 410	106.4	25.1	92.5	91.0
DeKalb 414	106.1	24.2	91.5	87.9
Troyer M18	106.0	26.8	91.3	89.5
P.A.G. 234	104.9	23.7	86.6	90.1
Wyckoff's W-20	104.9	26.9	89.5	86.4
Wyffels W-495	103.9	25.9	92.6	83.4
Sieben S-44OE	103.7	26.2	84.8	88.1
Sieben S-360	103.6	27.6	88.2	89.0
Sieben S-560	102.3	25.0	84.1	87.8
Wyckoff's W-25A	102.3	27.6	78.7	89.1
DeKalb 444	102.2	26.3	89.6	92.4
Hulting 481	102.1	26.1	81.9	88.6
Super-Crost 440	101.5	26.2	80.3	89.8
Pioneer 345	101.2	24.3	87.1	88.8
Troyer M12T	101.1	28.9	93.9	88.8
Hulting 238	100.5	24.1	77.4	90.1
DeKalb 459	100.3	24.4	71.7	89.6
Sieben S-340	100.2	24.9	85.0	91.5
Sieben S-440	99.3	26.2	92.0	84.0
Average of all entries	**105.1**	**26.0**	**87.1**	**89.3**
Number in range		Difference necessary for significance		
2	**2.9**	**1.6**	**11.0**	**5.1**
3-5	**3.3**	**1.8**	**12.2**	**5.6**
6-10	**3.5**	**2.0**	**13.0**	**6.0**
11-20	**3.6**	**2.0**	**13.6**	**6.3**
Over 20	**3.7**	**2.1**	**13.8**	**6.4**
SUMMARY: 1959-1961				
Northrup King KT628	119.3	28.0	82.9	90.7
P.A.G. Exp. 15018	116.3	25.0	76.9	93.1
Hulting 260SC	114.5	26.1	74.0	95.0
Pioneer 329	113.3	25.3	82.9	92.6
Hulting 242	112.1	24.4	91.4	95.3
Moews 48A	111.8	25.2	87.6	90.9
Wyffels W-600	111.8	26.7	91.4	93.5
Sieben S-44OE	111.6	25.4	79.3	90.1
P.A.G. 305	111.6	25.6	86.2	91.9
DeKalb 633	110.7	28.0	85.9	92.0
DeKalb A506	110.2	26.4	87.5	91.8
Moews 500A	110.2	27.8	76.8	89.3
Moews CB65A	109.6	26.4	81.8	93.0
Troyer L13	109.3	26.6	88.7	91.0
Monier 6M-6	109.1	26.7	83.0	91.9
DeKalb 414	108.7	24.0	88.1	89.9
Sieben S-580	108.5	25.6	87.9	93.6
DeKalb 640	108.3	28.5	90.8	94.3
Pioneer 371	108.1	21.6	84.3	90.4
Frey 410	107.8	25.0	90.8	92.9
Troyer M18	105.9	25.6	86.9	92.8
Moews 505A	105.0	25.0	85.4	92.0
Sieben S-560	104.9	25.1	79.8	89.7
Troyer M11T	104.8	27.7	88.2	89.2
Wyffels W-495	104.2	25.7	90.0	88.1
Troyer M12T	104.1	27.7	90.9	90.4
Hulting 238	103.7	23.7	69.9	94.0
Wyckoff's W-25A	102.9	26.9	68.6	91.3
Sieben S-360	102.8	27.1	84.6	90.8
Sieben S-340	102.4	24.8	78.9	94.0
Sieben S-440	102.3	26.6	89.2	82.7
Super-Crost 440	102.2	26.1	71.3	90.8

(Table is continued on next page)

Table 4. — DeKalb — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1959-1961 — concluded				
	bu.	*perct.*	*perct.*	*perct.*
P.A.G. 234	102.1	24.3	81.0	90.8
Wyckoff's W-20	101.7	26.8	85.0	86.4
DeKalb 444	99.2	26.3	87.1	95.1
Pioneer 345	98.8	24.5	83.1	90.7
Hulting 481	98.8	25.9	74.1	89.0
DeKalb 459	97.4	24.7	60.7	91.6
Cargill 256	97.3	24.9	81.2	88.2
Average of all entries	**106.7**	**25.8**	**82.9**	**91.3**
Number in range	Difference necessary for significance			
2	12.2	1.9	N.S.	N.S.
3-5	13.6	2.1	N.S.	N.S.
6-10	14.5	2.2	N.S.	N.S.
11-20	15.1	2.3	N.S.	N.S.
Over 20	15.4	2.4	N.S.	N.S.
1961 RESULTS				
Cargill 256	87.2	26.6	62.0	76.8
Cargill 259	111.0	25.2	70.5	82.8
Cargill 285	93.7	26.6	68.5	80.7
Cargill 315	87.2	26.7	80.2	75.5
Cornelius C75	99.7	26.6	82.7	84.8
Cornelius C77A	90.6	27.9	61.7	87.3
Corn King 123	93.8	27.9	81.2	83.7
DeKalb 400	110.8	23.8	84.0	90.9
DeKalb 414	103.4	22.7	84.3	82.6
DeKalb 440	91.5	27.9	67.1	94.0
DeKalb 441	134.2	24.8	75.5	86.4
DeKalb 444	94.6	27.2	76.0	89.5
DeKalb 459	86.7	25.8	16.1	90.0
DeKalb 633	102.9	28.9	77.6	90.6
DeKalb 640	102.4	28.0	82.7	91.2
DeKalb A506	101.2	26.8	70.0	86.1
DeKalb X82-050	107.2	27.6	75.6	83.8
DeKalb X500	117.0	26.5	84.0	81.5
Farmers Union FU366	98.7	29.1	93.3	87.1
Frey 410	101.9	25.6	81.2	86.9
Frey 460	103.3	25.0	82.5	90.9
Hulting 218	84.8	25.2	30.9	69.9
Hulting 222	97.1	24.6	84.5	85.7
Hulting 237	107.3	23.4	53.3	93.4
Hulting 238	102.8	23.6	38.1	92.3
Hulting 242	112.6	24.7	87.0	93.5
Hulting 260SC	102.7	27.2	44.9	92.8
Hulting 471	87.0	25.2	60.1	86.5
Hulting 481	90.1	25.5	45.5	84.8
Hulting Exp. 61263	93.9	26.7	43.8	69.0
Illinois 3303 (Station)	96.0	26.9	58.0	88.4
Moews 48A	104.6	23.5	78.8	86.0
Moews 500A	99.6	27.3	48.4	85.3
Moews 505A	101.7	26.7	67.9	81.0
Moews CB65A	84.7	26.2	57.7	91.8
Moews M540	103.3	26.1	82.5	83.2
Monier 5-M-5-1	103.3	26.4	64.6	89.1
Monier 6-M-6	102.8	27.8	63.9	87.4
Monier M-60	99.3	25.3	72.1	83.2
Muncy Chief H522	98.0	24.8	59.1	88.2
Muncy Chief H780	96.2	27.7	68.4	78.8
Northrup King KT628	118.4	27.5	56.5	83.5
Northrup King KT632	104.3	26.3	89.7	91.5

(Table is concluded on next page)

Table 4. — DeKalb — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
P.A.G. 234	105.4	24.6	57.2	91.9
P.A.G. 285	114.9	25.0	75.3	89.0
P.A.G. 305	116.4	26.5	73.9	89.6
P.A.G. Exp. 11536	92.4	26.7	42.8	91.2
P.A.G. Exp. 11549	113.7	26.9	66.3	90.6
P.A.G. Exp. 15018	110.1	26.4	40.0	90.2
P.A.G. Exp. 15104	109.7	25.8	63.1	85.8
Pioneer 320	111.7	26.5	73.0	88.9
Pioneer 321	130.2	26.6	65.7	86.4
Pioneer 328B (formerly 5536)	103.4	27.3	57.9	87.1
Pioneer 329	111.4	25.4	59.9	81.9
Pioneer 342B	88.4	25.9	34.6	92.7
Pioneer 345	96.6	24.6	65.2	87.4
Pioneer 354A	101.3	23.4	34.2	87.8
Pioneer 371	110.7	24.1	68.6	83.9
Pioneer 3304 (formerly 80201)	106.5	26.9	89.1	83.8
Pioneer 3481 (formerly 6670)	104.9	25.0	71.4	84.8
Pride 69	108.5	27.4	59.1	88.5
Sieben S-340	82.1	25.4	55.2	86.5
Sieben S-360	98.8	28.6	74.3	85.4
Sieben S-440	107.0	28.1	85.8	72.8
Sieben S-440E	108.5	27.2	70.4	91.6
Sieben S-560	105.7	26.9	50.5	86.4
Sieben S-580	102.1	25.2	72.3	85.5
Stewart S-15	107.2	26.5	70.6	78.0
Stewart S-66B	93.5	27.9	70.2	80.0
Stewart X9741	91.2	24.2	75.8	79.8
Super-Crost 214	91.7	24.6	59.5	82.1
Super-Crost 340	119.0	25.4	58.4	90.7
Super-Crost 440	97.4	27.8	54.3	82.5
Super-Crost 441	101.1	27.1	61.8	81.7
Super-Crost 470	84.2	24.2	45.7	75.0
Super-Crost 490	110.4	26.4	88.6	91.4
Super-Crost S4A	77.7	26.8	19.8	80.7
Super-Crost S5	90.5	26.2	67.8	79.6
Tiemann T-68	112.0	25.1	67.9	91.7
Tomco 611	107.9	29.6	75.2	87.5
Tomco 619	90.4	27.7	48.5	74.0
Troyer E8T	99.3	26.1	73.1	87.6
Troyer L13	94.5	26.8	79.0	80.8
Troyer M11T	102.4	26.6	72.8	86.6
Troyer M11TT	87.7	28.9	42.2	90.9
Troyer M12T	98.4	27.6	83.1	87.9
Troyer M15TT	87.5	29.1	57.7	86.0
Troyer M18	101.9	25.0	64.9	91.7
Troyer M37	106.9	26.5	86.8	75.3
Troyer M38T	112.0	28.3	90.0	80.4
Troyer M39T	110.1	26.7	76.2	90.1
United-Hagie UH31I40	85.8	25.6	66.0	81.9
United-Hagie UHWW30	92.8	29.3	15.2	88.2
United-Hagie UHX3H46	99.2	26.2	49.8	77.0
Wyckoff's W-18	100.9	27.7	75.7	76.5
Wyckoff's W-20	85.5	26.4	65.5	80.0
Wyckoff's W-25A	101.7	26.4	24.0	85.9
Wyffels W-491	100.4	26.0	78.0	83.7
Wyffels W-495	89.8	27.5	80.1	82.5
Wyffels W-600	104.4	26.2	78.3	91.6
Average of all entries	**100.8**	**26.3**	**65.4**	**85.4**
Number in range	Difference necessary for significance			
2	22.9	3.1	26.6	11.1
3-5	25.5	3.4	29.6	12.4
6-10	27.1	3.7	31.5	13.2
11-20	28.3	3.8	32.9	13.8
Over 20	28.8	3.9	33.5	14.0

Table 5. — WEST NORTH-CENTRAL ILLINOIS: Galesburg

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1961				
	bu.	*perct.*	*perct.*	*perct.*
Bear Unicorn X600	132.7	21.4	84.4	85.6
DeKalb 805	132.0	22.8	91.8	87.6
Null N-83	125.9	22.6	86.0	92.2
Whisnand 852	125.8	23.8	87.0	90.5
McAllister 13A	125.2	22.3	86.9	87.5
Van Horn V.H.101	123.6	22.8	84.0	92.3
Schwenk S34	123.0	21.4	83.5	93.7
Moews 524	122.0	23.4	86.5	91.8
Stewart S-65	121.5	22.4	85.8	91.6
Pioneer 316	121.2	21.6	87.4	93.3
Pioneer 329	121.0	20.7	88.6	93.4
Frey F57	121.0	22.5	89.5	89.2
Moews 524A	120.9	23.2	85.6	90.6
DeKalb 812	120.7	22.7	89.0	91.2
Tiemann T-78	120.0	22.3	82.4	93.1
Whisnand 830	119.2	22.1	85.0	88.2
Tiemann T-68	117.9	21.1	83.4	90.3
Troyer M11T	116.1	22.1	89.0	91.7
Hulting 242	112.6	21.1	88.6	84.5
Hulting 481	111.0	21.4	86.5	85.9
Sieben S-340	110.0	21.6	77.8	87.1
Sieben S-360	107.5	22.0	78.2	90.1
Average of all entries	**120.5**	**22.2**	**84.2**	**90.1**
Number in range	Difference necessary for significance			
2	**3.7**	**1.5**	**4.2**	**4.7**
3-5	**4.1**	**1.7**	**4.6**	**5.2**
6-10	**4.4**	**1.8**	**4.9**	**5.6**
11-22	**4.6**	**1.9**	**5.2**	**5.8**
SUMMARY: 1959-1961				
DeKalb 805	132.7	23.2	93.9	86.6
Bear Unicorn X600	130.7	22.7	85.6	86.1
Pioneer 321	126.6	24.0	84.8	93.1
Van Horn V.H.101	124.0	23.8	79.3	92.2
P.A.G. SX14	123.2	23.2	95.2	83.7
Whisnand 852	123.1	24.5	87.4	90.1
McAllister IVX1001A	122.3	21.5	94.3	83.1
Bear OK96A	122.0	24.8	81.9	86.7
Null N-83	121.9	23.4	87.4	90.1
Morton M-505	121.8	21.9	92.1	88.9
Moews 524	121.7	23.8	84.7	93.2
Forster 44	121.4	24.0	87.4	91.2
Bear OK878	120.2	22.8	84.2	88.4
Forster 33	120.0	24.7	87.0	88.6
Tiemann T-78	118.6	23.0	77.1	93.6
Pioneer 319	117.8	22.6	84.3	93.0
Troyer M17T	117.2	23.3	89.8	89.8
Schwenk S34	116.7	21.9	85.1	94.2
McAllister 13A	116.7	23.4	88.1	84.5
P.A.G. 415	116.6	23.2	81.0	85.3
DeKalb 633	116.2	23.0	86.4	90.6
Pioneer 316	116.1	22.7	86.6	93.6
Moews 524A	115.1	24.5	83.5	89.1
DeKalb 640	114.8	23.1	91.0	84.7
Tiemann T-68	114.0	21.3	79.3	89.7
Frey F57	113.9	23.0	89.9	87.3
Forster 25	113.6	23.4	91.5	84.7
Hulting 260SC	113.3	22.1	85.0	91.6
Stewart S-65	113.3	22.4	85.6	89.8
DeKalb 812	112.8	24.3	89.9	92.0
Whisnand 830	112.6	22.9	83.4	87.8
Forster 56	112.4	24.4	85.8	86.5
Monier 6-M-6	111.4	23.0	84.1	91.0

(Table is continued on next page)

Table 5. — Galesburg — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1959-1961 — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Ainsworth X-97	111.4	23.4	93.5	89.0
P.A.G. 418	111.0	23.9	76.8	92.5
Troyer M11T	109.2	22.8	88.8	94.0
Northrup King KT628	109.2	23.4	87.7	83.0
Cargill 310	108.9	22.6	89.8	86.8
Pioneer 329	108.6	20.4	88.1	93.5
Hulting 482	108.0	22.4	89.2	89.6
Prairie Gold (Dittmer) D-791	102.8	21.4	91.3	89.0
Sieben S-340	100.8	21.5	78.9	84.3
Hulting 481	98.1	22.9	85.9	84.1
Hulting 242	96.9	21.9	89.2	81.2
Sieben S-360	96.2	22.2	74.6	88.5
Average of all entries	**115.0**	**23.0**	**86.4**	**88.8**
Number in range	Difference necessary for significance			
2	12.5	5.1	9.2	6.7
3-5	14.0	5.7	10.2	7.4
6-10	14.9	6.0	10.9	7.9
11-20	15.5	6.3	11.3	8.3
Over 20	15.8	6.4	11.3	8.4
1961 RESULTS				
Ainsworth X-97	119.5	22.2	97.0	90.0
Ainsworth X-104	123.3	23.6	75.8	80.0
Bear OK33	117.7	24.0	79.3	86.0
Bear OK44	123.6	22.4	87.9	94.0
Bear OK55A	125.8	24.2	81.1	95.3
Bear OK69	133.7	21.3	73.7	90.0
Bear OK96	125.5	23.3	84.1	88.6
Bear OK96A	119.0	23.5	80.3	84.6
Bear OK878	132.6	22.2	90.6	86.6
Bear Unicorn X600	146.5	20.7	94.5	86.0
Cargill 310	114.3	21.6	86.3	85.3
Cargill 315	103.1	21.8	89.9	92.6
Cargill 340	122.6	22.1	86.1	91.3
Corn of Tomorrow Y-3	80.4	22.7	71.9	88.0
DeKalb 632	109.7	23.1	92.0	84.6
DeKalb 633	119.4	21.8	83.8	96.0
DeKalb 633A	119.9	22.2	89.6	90.0
DeKalb 640	127.7	20.3	93.8	79.3
DeKalb 803	120.9	22.3	84.3	94.6
DeKalb 805	129.3	22.2	96.1	83.3
DeKalb 812	121.0	23.0	87.7	92.6
DeKalb A504	101.3	20.6	89.0	86.0
DeKalb A703	120.3	23.6	84.3	86.0
DeKalb X02-031	107.5	22.5	82.7	94.0
DeKalb X91-005	100.4	21.4	93.3	88.6
DeKalb X92-205	118.3	23.1	85.1	94.0
Farmers Union FU366	115.2	22.8	96.7	82.6
Forster 25	124.3	21.3	93.7	75.3
Forster 33	118.4	22.6	89.5	79.3
Forster 44	114.9	22.3	86.9	90.0
Forster 56	114.7	21.9	86.4	84.0
Forster 611	114.2	20.0	88.7	89.3
Forster 622	115.0	19.9	91.1	86.6
Forster 700X	141.2	21.2	95.1	82.0
Forster 725	114.6	22.1	88.7	94.6

(Table is continued on next page)

Table 5. — Galesburg — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — continued				
	bu.	*perct.*	*perct.*	*perct.*
Forster 755	114.9	22.1	91.0	94.0
Frey F57	105.1	21.1	94.1	83.3
Hulting 242	100.2	21.5	97.1	74.0
Hulting 260SC	115.3	20.9	89.6	86.0
Hulting 345	113.3	22.4	92.5	80.0
Hulting 481	101.4	21.9	76.9	74.6
Hulting 482	112.5	21.9	94.5	86.0
Hulting 484	109.9	20.5	88.0	83.3
Hulting Exp. 61266	112.3	20.7	85.6	92.0
Hulting Exp. X973	143.1	21.9	91.6	87.3
McAllister 13A	131.4	21.5	91.2	84.0
McAllister 22B	112.3	20.6	92.2	87.3
McAllister 55A	114.5	20.7	90.8	94.0
McAllister 88B	105.4	22.2	92.5	89.3
McAllister IVX1001A	124.6	21.0	91.5	79.3
McAllister X1001	127.4	21.6	94.1	89.3
Middlekoop M-14	110.3	21.5	89.7	87.3
Middlekoop M-33	111.3	21.1	93.1	79.3
Middlekoop M-66	116.9	20.1	89.2	92.6
Middlekoop M-80	120.1	21.5	92.9	84.6
Middlekoop M-81	117.3	22.4	93.9	90.0
Middlekoop M-88	116.3	22.3	82.7	89.3
Moews 524	113.7	22.6	82.3	92.6
Moews 524A	120.0	23.1	77.5	84.6
Moews M545	111.8	23.9	93.6	84.0
Moews M560	133.6	22.1	92.5	84.6
Moews M700	111.9	22.7	88.4	92.0
Monier 6-M-6	112.7	22.1	82.4	94.0
Monier M-60	110.3	21.5	94.2	79.3
Morton M-7X	108.4	22.2	90.5	87.3
Morton M-505	134.3	21.7	94.5	86.0
Muncy Chief H780	115.7	21.9	89.5	86.6
Munson M-13A	103.1	21.3	89.5	82.6
Munson M-15A	122.2	21.1	96.3	92.0
Munson M-66	112.7	20.0	94.8	92.0
Munson M-88	118.5	22.4	94.1	89.3
Northrup King KT628	112.4	22.1	92.3	84.6
Northrup King KT632	120.0	21.1	95.7	80.0
Northrup King KT645	110.3	23.3	87.4	90.6
Northrup King KT652	109.4	25.5	89.1	86.0
Null N-26	106.8	22.8	93.2	88.6
Null N-83	121.7	20.5	89.9	85.3
P.A.G. 405	121.9	21.1	91.4	94.0
P.A.G. 415	116.5	21.2	88.3	79.3
P.A.G. 418	129.5	22.6	81.6	91.3
P.A.G. 444	134.9	25.5	92.5	92.0
P.A.G. Exp. 10874	126.8	22.3	93.3	90.0
P.A.G. Exp. 15033	140.2	22.3	96.8	87.3
P.A.G. Exp. 15056	113.0	21.7	87.1	89.3
P.A.G. M-SX18 (formerly Exp. 11349)	99.4	22.5	94.1	90.6
P.A.G. SX14	129.7	21.6	93.2	82.0
P.A.G. SX19	142.8	23.0	89.3	86.0
P.A.G. SX29	143.2	20.3	89.0	86.6
Pioneer 302	123.4	24.4	81.8	98.6
Pioneer 312A	119.4	23.9	85.4	82.6
Pioneer 314	115.6	21.9	82.4	94.6
Pioneer 316	127.3	21.9	84.0	93.3
Pioneer 319	123.3	21.4	81.8	94.6
Pioneer 321	131.5	23.1	77.4	92.0
Pioneer 321A	135.3	23.6	77.5	85.3
Pioneer 329	109.5	19.5	85.5	89.3
Pioneer 3304 (formerly 80201)	136.8	22.4	81.4	86.6
Pioneer 5701	111.0	23.7	92.1	86.0

(Table is concluded on next page)

Table 5. — Galesburg — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Prairie Gold (Dittmer) D-791	96.6	21.0	94.7	87.3
Schwenk S20	128.8	20.9	92.7	86.6
Schwenk S34	119.9	20.8	81.8	94.0
Sieben S-340	102.1	19.9	83.1	83.3
Sieben S-360	101.3	22.0	85.8	90.0
Sieben S-440	105.5	20.9	96.2	90.0
Sieben S-580	115.9	20.5	90.5	90.6
Stewart S-56B	115.9	20.8	87.5	85.3
Stewart S-65	118.4	20.8	89.9	91.3
Stiegelmeier Hi-B-Jack S-396	135.2	22.8	88.0	80.0
Stiegelmeier Hi-B-Jack S-600	117.3	21.4	73.8	80.6
Super-Crost 671	120.1	21.4	93.4	86.0
Super-Crost 690	109.5	21.4	87.8	88.0
Super-Crost 851	90.1	23.3	86.3	79.3
Super-Crost 890	106.1	21.4	94.5	84.0
Super-Crost S-5	97.5	21.3	86.9	94.6
Super-Crost S6	110.0	20.4	93.9	78.0
Tiemann T-68	116.4	20.8	82.7	93.3
Tiemann T-78	135.1	21.2	87.0	95.3
Tomco 812	114.9	22.3	92.6	91.3
Tomco 838	106.3	24.4	91.9	92.0
Troyer M11T	108.8	22.8	88.6	92.0
Troyer M11TT	100.4	22.9	88.0	80.6
Troyer M17T	141.2	21.9	93.3	88.0
Troyer M22	106.6	20.8	94.4	83.3
United-Hagie UH158	134.0	22.3	86.9	87.3
United-Hagie UH3H40	116.0	20.0	90.9	91.3
United-Hagie UH3H56	104.5	22.0	97.4	81.3
Van Horn V.H.101	129.6	22.7	78.4	91.3
Van Horn V.H.109	108.4	21.4	92.4	88.6
Van Horn V.H.111	112.1	21.4	83.1	80.6
Whisnand 814	133.5	21.1	83.1	92.0
Whisnand 830	111.5	21.3	74.1	82.6
Whisnand 852	134.6	23.5	87.7	86.6
Average of all entries	**117.7**	**21.9**	**88.5**	**87.4**
Number in range	Difference necessary for significance			
2	22.9	1.8	11.7	11.9
3-5	25.6	2.0	13.0	13.2
6-10	27.2	2.2	13.9	14.1
11-20	28.5	2.3	14.5	14.7
Over 20	28.9	2.3	14.8	15.0

Table 6. — EAST NORTH-CENTRAL ILLINOIS: Ashkum

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1961				
	bu.	*perct.*	*perct.*	*perct.*
DeKalb 805	104.3	22.1	87.7	84.3
Bear Unicorn X600	102.9	21.0	69.6	87.0
Bear OK55	102.4	22.8	82.1	86.2
DeKalb 632	100.5	23.7	80.5	87.7
Trisler T-35B	98.3	22.6	85.3	86.1
Moews 524A	97.4	22.5	82.3	88.1
Tiemann T-68	96.3	20.4	83.3	87.1
Crib Filler 131	96.3	23.6	79.2	82.2
Troyer L14T	95.2	21.4	86.0	91.0
Troyer M13T	95.1	21.9	83.2	89.6
Troyer M11T	95.0	23.3	89.7	86.0
Frey 892	94.4	21.6	78.2	91.8
Wyckoff's W-25A	93.1	22.1	82.0	90.0
Trisler T-32B	92.9	22.1	82.9	86.0
Frey 692	90.0	22.7	81.4	85.3
Wyckoff's W-20	89.0	21.7	89.8	87.2
Troyer M18	88.9	21.9	91.2	83.9
Average of all entries	**96.0**	**22.2**	**83.2**	**87.0**
Number in range	Difference necessary for significance			
2	**9.7**	**1.7**	**23.5**	**N.S.**
3-5	**10.9**	**1.9**	**26.0**	**N.S.**
6-10	**11.6**	**2.0**	**27.8**	**N.S.**
11-17	**12.1**	**2.1**	**29.1**	**N.S.**
SUMMARY: 1959-1961				
DeKalb 632	102.0	23.2	77.6	89.5
DeKalb X82-030	100.3	22.5	76.2	88.8
Crib Filler 77	99.0	22.8	75.9	87.2
Van Horn V.H.97	98.5	21.4	81.9	85.2
DeKalb 805	98.0	21.6	82.1	81.2
Bear OK96A	96.8	22.5	70.8	89.1
Moews CB96A	96.2	21.6	83.5	89.8
Frey 892	95.6	21.1	77.2	93.9
Troyer L13	95.2	20.2	76.8	89.6
Pioneer 321	95.2	22.4	77.6	91.2
Moews 524A	95.0	23.0	84.3	87.5
Trisler T-35B	94.7	22.0	82.6	86.9
Bear OK55	94.7	22.0	80.7	87.6
Bear Unicorn X600	93.2	20.6	66.7	88.1
Troyer M13T	93.1	21.5	83.7	90.3
Troyer M11T	92.1	22.6	86.0	87.6
Trisler T-32B	92.0	22.0	78.0	86.1
Crib Filler 131	91.2	22.9	75.4	80.4
Hulting 260SC	90.9	21.5	76.0	91.1
Bear OK96	90.5	22.8	72.2	87.6
Wyckoff's W-25A	90.4	22.0	76.9	90.3
DeKalb 803A	90.0	23.2	72.9	86.8
Hulting 482	89.8	21.2	91.1	85.1
Tiemann T-68	89.3	20.5	81.4	84.1
Frey 692	89.3	21.3	75.5	83.7
Troyer L14T	89.0	20.3	85.2	90.7
Troyer M18	87.0	21.9	88.8	86.2
Wyckoff's W-20	84.0	22.0	88.2	84.3
Average of all entries	**93.3**	**21.9**	**79.5**	**87.5**
Number in range	Difference necessary for significance			
2	N.S.	1.2	N.S.	N.S.
3-5	N.S.	1.9	N.S.	N.S.
6-10	N.S.	2.0	N.S.	N.S.
11-20	N.S.	2.1	N.S.	N.S.
Over 20	N.S.	2.1	N.S.	N.S.

(Table is continued on next page)

Table 6. — Ashkum — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Ainsworth X-96	121.7	20.0	72.4	91.6
Ainsworth X-103	93.2	21.6	88.9	86.4
Bear OK33	104.1	22.3	60.7	87.8
Bear OK44	107.7	21.8	80.9	85.8
Bear OK55	118.0	21.1	60.5	92.5
Bear OK55A	120.1	21.0	46.6	86.3
Bear OK72AA	108.8	21.4	48.9	85.7
Bear OK96	108.2	22.5	44.4	89.6
Bear OK96A	104.9	21.9	42.2	91.1
Bear Unicorn X600	112.2	20.3	29.3	86.3
Cargill 310	106.9	20.5	69.0	87.8
Cargill 330	111.3	20.8	70.6	85.7
Cargill 340	109.8	20.6	64.3	89.4
Crib Filler 63	89.7	20.5	63.5	80.5
Crib Filler 66	114.3	21.0	63.9	79.6
Crib Filler 70	99.5	19.9	74.1	83.3
Crib Filler 77	112.4	22.8	46.8	84.9
Crib Filler 116	102.2	20.6	56.4	82.5
Crib Filler 123	91.9	22.7	66.0	79.9
Crib Filler 131	109.6	22.5	52.2	84.8
DeKalb 632	110.9	22.1	59.1	86.2
DeKalb 803	117.6	20.9	37.2	90.9
DeKalb 803A	95.1	22.7	49.5	87.9
DeKalb 805	107.6	20.9	57.1	79.6
DeKalb 837	108.5	22.1	45.6	87.1
DeKalb 898B	118.2	25.3	62.6	94.7
DeKalb A703	102.5	19.7	75.9	74.2
DeKalb X02-031	98.3	22.8	52.0	77.3
DeKalb X82-030	116.5	22.1	43.6	94.8
DeKalb X8034	99.1	20.5	69.7	92.2
Frey 425	100.4	22.1	50.3	93.2
Frey 692	103.4	19.6	47.7	87.8
Frey 892	103.8	19.7	43.3	96.9
Gutwein 650	107.9	19.5	66.3	87.2
Gutwein 650A	112.9	22.3	73.9	81.0
Hulting 260SC	106.9	20.4	39.6	89.3
Hulting 345	116.6	21.2	71.9	91.6
Hulting 471	105.1	19.1	71.5	88.4
Hulting 482	108.0	20.6	78.8	84.8
Illinois 3266 (Station)	97.1	20.6	65.8	92.2
Illinois 3270 (Station)	101.2	19.5	70.0	84.5
Illinois 3347 (Station)	115.3	22.7	45.0	95.6
Illinois 3382 (Station)	99.7	19.9	61.6	90.8
Illinois 3383 (Station)	84.7	22.3	47.1	89.5
McAllister 22B	109.2	21.4	73.7	85.6
McAllister 88B	110.4	21.9	73.1	91.6
McAllister X1001	105.0	20.6	73.7	90.9
Moews 500A	100.0	19.3	66.5	81.6
Moews 524A	106.8	22.3	61.0	90.9
Moews CB96A	92.9	20.6	64.3	89.4
Moews M545	106.3	23.4	59.6	79.2

(Table is concluded on next page)

Table 6. — Ashkum — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Moews M560	103.2	21.0	50.1	85.2
Moews M700	96.6	20.8	69.3	81.6
Northrup King KT632	103.8	20.8	71.8	85.6
Northrup King KT645	109.0	20.8	65.4	84.8
Northrup King KT652	112.0	22.9	47.8	94.6
Pioneer 309A	102.2	26.3	75.9	93.8
Pioneer 312A	117.6	22.8	53.0	95.2
Pioneer 314	105.4	20.8	69.3	93.9
Pioneer 321	103.2	21.1	44.1	91.3
Pioneer 321A	122.0	21.3	71.0	92.9
Pioneer 328B (formerly 5536)	121.2	21.4	56.4	97.6
Pioneer 354	90.6	18.1	56.5	90.8
Pioneer 3304 (formerly 80201)	109.5	21.3	76.9	88.9
Pride X832	113.6	20.2	77.1	90.2
Purple Ribbon 290	107.6	18.9	70.9	95.4
Purple Ribbon 418	109.1	18.6	86.2	89.4
Purple Ribbon 606	100.6	21.6	67.8	87.7
Purple Ribbon 681	92.3	20.0	76.9	72.8
Purple Ribbon 4700	92.9	19.0	76.5	77.0
Purple Ribbon 7704	111.9	21.8	86.6	86.1
Stiegelmeier Hi-B-Jack S-331	111.2	22.9	42.9	82.5
Tiemann T-68	95.0	20.1	59.8	80.9
Tomco 812	90.3	21.1	64.4	78.8
Tomco 838	86.5	25.7	74.5	79.8
Trisler T-31B	106.4	23.1	40.4	91.6
Trisler T-32A	105.8	21.6	49.7	85.6
Trisler T-32B	99.5	21.9	48.6	77.2
Trisler T-35B	107.9	22.1	54.2	87.9
Trisler T-(X)	107.0	20.4	63.3	81.6
Troyer L13	112.4	18.8	59.9	92.2
Troyer L14T	99.7	20.8	74.7	94.7
Troyer M11T	107.1	21.7	66.9	84.0
Troyer M11TT	102.1	21.5	38.1	98.5
Troyer M13T	93.0	20.1	56.9	85.6
Troyer M18	96.2	20.3	70.4	86.6
Troyer M22	113.5	18.7	64.8	91.7
Troyer M37	99.7	18.7	68.6	92.4
Troyer M38T	102.7	21.3	72.8	90.3
Troyer M39T	108.5	21.7	72.5	87.7
United-Hagie UH158	117.6	21.8	59.7	89.1
United-Hagie UH3H56	109.7	22.4	84.1	87.7
United-Hagie UHX3H52	99.4	23.6	77.9	89.2
Van Horn V.H.95-1	96.6	23.2	44.4	89.3
Van Horn V.H.97	109.5	20.7	60.3	87.0
Van Horn V.H.101	104.7	22.2	52.9	73.3
Van Horn V.H.109	107.8	20.4	74.7	84.3
Wyckoff's W-18	105.2	19.9	87.3	87.7
Wyckoff's W-20	101.3	21.2	73.4	82.6
Wyckoff's W-25A	97.8	20.5	51.2	91.4
Average of all entires	**105.3**	**21.2**	**62.2**	**87.3**
Number in range	Difference necessary for significance			
2	18.6	1.9	20.7	11.5
3-5	20.8	2.2	23.1	12.8
6-10	22.2	2.3	24.6	13.6
11-20	23.1	2.4	25.7	14.3
Over 20	23.5	2.5	26.2	14.5

Table 7. — WEST-CENTRAL ILLINOIS: Bowen

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1961				
	bu.	*perct.*	*perct.*	*perct.*
Whisnand 852	114.0	24.4	88.5	91.6
Plymouth P-97	106.7	21.7	95.0	86.9
McAllister 13A	105.9	22.2	91.9	85.4
Moews 524	105.7	22.4	94.8	89.1
Canterbury 420	104.6	21.4	89.3	92.5
Pioneer 312A	104.4	25.3	96.4	92.1
P.A.G. 444	103.0	25.5	92.9	87.5
DeKalb 803A	102.6	24.7	90.6	89.7
Canterbury 400	100.9	21.1	92.0	90.1
Whisnand 830	99.6	23.7	93.8	85.3
Morton M-12A	98.7	23.3	95.6	88.5
Prairie Gold (Dittmer) D-821	97.2	22.4	91.3	88.0
Morton M-404	95.0	22.9	97.4	89.0
Average of all entries	**102.9**	**23.2**	**93.0**	**88.9**
Number in range	Difference necessary for significance			
2	9.1	1.3	5.0	N.S.
3-5	10.2	1.5	5.6	N.S.
6-13	10.8	1.6	5.9	N.S.
SUMMARY: 1959-1961				
Bear Unicorn X600	120.9	22.4	88.2	89.1
Pioneer 321	108.7	23.1	90.2	93.9
Whisnand 852	108.1	24.4	85.3	91.6
DeKalb 633	105.1	23.5	93.1	86.2
Prairie Gold (Dittmer) D-896	105.0	23.3	94.0	86.8
Moews CB96A	102.9	22.6	91.0	91.6
Cargill 340(5741)	102.2	22.7	90.3	89.8
McAllister 13A	101.8	22.6	88.4	85.3
Moews 524	101.6	23.4	93.0	88.6
Canterbury 420	101.4	22.2	85.7	92.7
Plymouth P-97	100.2	21.9	94.2	85.7
Pioneer 6117	100.1	23.3	96.9	82.6
Bear OK69	99.7	24.6	88.2	84.0
DeKalb 805	99.6	22.8	90.7	84.9
Hulting 482	98.3	24.3	95.3	83.6
DeKalb 803A	98.2	26.3	88.2	91.4
Ainsworth X-14-3	97.0	23.3	88.3	94.5
Morton M-12A	96.9	23.5	94.5	89.7
Canterbury 400	96.8	21.2	87.5	89.5
Prairie Gold (Dittmer) D-837	96.3	22.4	93.1	84.1
Troyer M11T	95.9	23.8	89.3	92.7
P.A.G. 444	95.3	26.3	89.1	86.7
Pioneer 312A	94.8	26.3	94.0	91.0
Whisnand 830	93.4	23.5	90.7	85.6
Troyer M13T	92.9	22.0	90.1	89.9
Morton M-404	90.4	22.7	95.6	89.9
Prairie Gold (Dittmer) D-821	88.8	22.5	86.0	88.6
Troyer M17T	87.0	26.5	94.7	87.7
Average of all entries	**99.3**	**23.5**	**90.9**	**88.5**
Number in range	Difference necessary for significance			
2	10.9	2.3	6.4	N.S.
3-5	12.2	2.6	7.1	N.S.
6-10	13.0	2.7	7.6	N.S.
11-20	13.6	2.8	8.0	N.S.
Over 20	13.8	2.9	8.1	N.S.

(Table is continued on next page)

Table 7. — Bowen — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Ainsworth Exp. 105	116.1	25.5	95.3	89.2
Ainsworth X-14-3	104.6	24.3	87.3	93.6
Bear OK33	98.8	26.4	90.4	92.0
Bear OK44	105.5	25.2	87.7	88.6
Bear OK67	104.9	25.3	88.0	94.3
Bear OK69	89.7	26.6	93.4	77.0
Bear OK89	102.1	25.0	85.8	80.7
Bear OK878	109.2	25.4	93.1	75.6
Bear Unicorn X600	131.3	23.7	87.5	87.1
Canterbury 400	110.0	23.2	91.0	89.9
Canterbury 420	118.3	22.9	90.3	97.5
Cargill 315	101.2	23.5	93.9	84.8
Cargill 340 (formerly 5741)	107.6	22.3	92.6	81.6
DeKalb 633	116.1	23.0	88.3	83.1
DeKalb 633A	88.0	23.6	91.5	77.0
DeKalb 803A	102.3	27.2	94.0	91.6
DeKalb 805	108.9	23.8	93.3	93.1
DeKalb 898B	108.9	27.5	91.5	86.0
DeKalb A703	95.4	24.0	88.0	87.7
DeKalb X02-030	97.1	26.3	94.7	86.9
DeKalb X92-221	97.0	23.3	94.4	94.5
DeKalb X8018-0	98.9	23.7	95.4	83.1
DeKalb X8034	101.6	25.0	91.4	84.9
Hulting 345	105.8	25.7	96.1	83.4
Hulting 482	101.1	23.9	93.7	77.1
Illinois 1660 (Station)	88.1	28.4	79.7	86.2
Lewis L305	92.9	21.4	87.3	77.2
Lewis L703	111.9	23.6	95.6	94.1
McAllister 13A	109.6	23.8	94.2	87.7
McAllister X1001	108.1	22.5	98.0	84.1
Moews 524	106.2	24.3	94.8	92.4
Moews CB90A	108.9	25.0	97.1	92.9
Moews CB96A	112.4	22.4	87.9	92.4
Moews M560	107.6	24.5	94.1	94.0
Moews M700	108.5	23.2	97.0	81.1
Morton M-6X	106.4	23.6	91.3	84.0
Morton M-12A	107.1	24.2	95.8	85.5
Morton M-404	95.6	22.6	93.2	88.6
Northrup King KT632	96.0	26.7	94.1	87.7
Northrup King KT645	92.6	24.2	96.8	75.0

(Table is concluded on next page)

Table 7. — Bowen — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Northrup King KT652	92.7	27.2	92.5	73.4
Null N-26	96.2	23.1	96.9	87.6
Null N-83	113.5	23.9	93.4	87.8
P.A.G. 436	112.8	24.4	92.3	96.0
P.A.G. 444	104.2	27.3	93.3	87.2
P.A.G. SX19	117.5	26.1	92.4	86.2
P.A.G. SX29	113.8	26.8	99.8	89.1
Pioneer 302	108.8	26.5	87.9	91.0
Pioneer 309A	112.2	30.7	95.6	97.9
Pioneer 312A	103.6	26.4	96.4	87.1
Pioneer 314	122.7	25.4	95.7	88.7
Pioneer 319	106.1	22.0	90.8	85.7
Pioneer 321	111.0	24.5	91.2	95.8
Pioneer 3304 (formerly 80201)	119.2	25.5	88.9	96.2
Pioneer 6117	105.4	23.7	96.7	75.0
Pioneer 6261	129.4	23.4	95.6	94.1
Plymouth 393	100.4	26.5	96.9	85.0
Plymouth 943	109.8	22.6	93.6	81.7
Plymouth P-97	99.8	22.2	93.9	85.0
Prairie Gold (Dittmer) D-821	95.4	22.9	94.5	89.6
Prairie Gold (Dittmer) D-837	104.7	22.8	93.4	81.4
Prairie Gold (Dittmer) D-896	101.4	25.2	95.5	78.0
Tomco 838	94.4	26.9	91.3	81.9
Tomco 957	99.5	26.9	92.2	80.6
Troyer M11T	102.1	24.6	88.4	84.2
Troyer M13T	103.6	23.3	87.8	94.7
Troyer M17T	85.7	33.7	95.8	80.6
Troyer M21	100.5	23.0	94.9	90.3
Troyer M22	122.8	22.2	100.0	83.6
Whisnand 814	94.2	23.0	92.3	88.7
Whisnand 830	98.4	23.8	84.9	74.3
Whisnand 852	102.6	25.9	84.7	91.0
Average of all entries	105.0	24.7	92.6	86.6
Number in range	Difference necessary for significance			
2	18.3	3.9	9.8	12.6
3-5	20.3	4.3	10.1	14.0
6-10	21.6	4.6	11.6	14.9
11-20	22.6	4.8	12.1	15.6
Over 20	23.0	4.9	12.4	15.9

Table 8. — CENTRAL ILLINOIS: Stanford

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1961				
	bu.	*perct.*	*perct.*	*perct.*
Pioneer 309A	119.7	26.0	57.7	91.8
Pioneer 302	118.8	23.9	93.2	94.2
Whisnand 852	118.5	21.6	91.3	90.8
Stiegelmeier Hi-B-Jack S-396	117.9	22.4	94.6	91.7
Bear Unicorn X600	116.8	19.5	88.2	90.8
Moews CB90A	116.6	21.3	95.7	92.4
Frey F57	116.2	20.5	93.1	93.1
Moews 524	115.6	21.2	95.9	90.0
P.A.G. 444	115.3	22.5	91.3	91.3
Pioneer 329	114.8	19.1	95.8	94.0
Moews CB69A	114.6	20.8	95.3	91.5
Whisnand 830	113.6	21.0	93.3	90.2
DeKalb 837	111.8	21.9	84.7	94.0
Stiegelmeier Hi-B-Jack S-300A	111.4	21.3	92.3	88.0
Stiegelmeier Hi-B-Jack S-600	111.1	21.0	88.4	87.6
Frey 892	110.1	19.5	93.2	92.0
DeKalb 803A	109.8	22.3	92.5	93.2
Ainsworth X-14-3	109.4	20.6	90.4	90.6
Trisler T-35B	109.2	20.0	93.7	87.5
Trisler T-32B	108.6	20.7	96.2	91.7
Canterbury 420	108.5	19.3	93.7	93.5
Troyer L14T	108.3	21.0	94.9	90.5
Troyer L13	107.4	20.2	94.5	93.2
Troyer M11T	107.4	20.8	92.1	89.9
Canterbury 400	105.1	18.9	91.0	92.5
Trisler T-19B	103.4	20.0	91.5	89.8
Average of all entries	**112.3**	**21.1**	**91.3**	**91.4**
Number in range		Difference necessary for significance		
2	**10.4**	**1.3**	**13.9**	**N.S.**
3-5	**11.5**	**1.5**	**15.5**	**N.S.**
6-10	**12.3**	**1.6**	**16.5**	**N.S.**
11-20	**12.8**	**1.6**	**17.2**	**N.S.**
Over 20	**13.1**	**1.7**	**17.5**	**N.S.**
SUMMARY: 1959-1961				
DeKalb 805	130.3	21.3	96.9	92.7
P.A.G. SX14	125.8	22.3	98.8	90.1
Pioneer 309A	124.4	26.9	96.3	93.3
Pioneer 302	122.0	24.6	92.9	95.6
Pioneer 321	121.0	22.1	95.4	96.6
Illinois 1996 ('59-'60, Station; '61, Stone)	120.0	21.5	93.4	95.1
DeKalb X82-030	118.5	21.3	89.7	89.6
Whisnand 852	118.3	22.6	92.3	89.8
Stiegelmeier Hi-B-Jack S-396	118.2	22.4	96.2	91.5
DeKalb 633	118.1	21.9	94.7	91.3
Moews CB90A	117.7	22.5	96.2	92.3
P.A.G. 444	117.5	22.8	92.4	95.2
Moews CB69A	117.3	21.8	96.6	93.3
Bear OK96A	117.1	21.7	89.5	92.5
Frey F57	116.7	20.2	94.7	94.6
Stiegelmeier Hi-B-Jack S-600	116.1	22.1	91.6	90.7
DeKalb 640	116.0	20.0	96.3	92.2
Stiegelmeier Hi-B-Jack S-300A	115.7	22.3	93.8	85.6
Monier 6-M-6	115.0	21.3	95.2	92.1
Pioneer 309B	114.9	28.9	95.6	91.4
Pioneer 329	114.0	19.9	94.6	94.3
Whisnand 830	113.8	22.0	92.8	89.8
Bear Unicorn X600	113.6	20.3	86.3	91.4
DeKalb 837	113.4	22.6	82.9	95.1
Bear Unicorn X606	113.1	23.4	94.4	90.7
Tomco 838	112.7	22.4	94.7	90.0
Todd 635	112.4	21.3	95.3	90.5
Mountjoy M-100	112.1	21.7	90.7	92.8

(Table is continued on next page)

Table 8. — Stanford — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1959-1961 — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Moews 524	112.0	21.9	96.3	89.4
Frey 892	111.9	19.7	93.2	91.7
Trisler T-35B	110.9	21.0	94.0	88.8
Moews CB96A	109.6	20.9	93.7	90.5
Ainsworth X-14-3	107.4	21.2	88.3	88.3
P.A.G. 418	106.9	21.9	88.1	91.0
Canterbury 420	106.8	20.1	95.5	93.7
Todd 840	106.0	22.7	90.9	89.2
Mountjoy M-444	105.9	21.4	95.7	88.8
DeKalb 803A	104.8	23.3	90.3	93.2
Trisler T-32B	104.5	21.2	95.7	90.9
Troyer L14T	103.9	21.5	95.5	89.4
Troyer L13	103.6	20.9	94.0	90.6
Ainsworth X-98	103.4	20.7	93.1	86.2
Troyer M11T	103.4	21.5	92.0	90.9
Trisler T-19B	102.4	20.8	90.0	88.3
Canterbury 400	98.0	19.6	93.2	91.7
Average of all entries	**113.0**	**21.9**	**93.3**	**91.4**
Number in range	Difference necessary for significance			
2	12.8	1.8	6.2	N.S.
3-5	14.2	2.1	6.9	N.S.
6-10	15.1	2.2	7.3	N.S.
11-20	15.8	2.3	7.7	N.S.
Over 20	16.1	2.3	7.8	N.S.
1961 RESULTS				
Ainsworth X-14-3	100.4	20.9	79.3	75.5
Ainsworth X-98	93.7	19.0	93.8	71.0
Bear OK33	119.1	22.3	91.7	89.6
Bear OK44	127.6	23.0	87.1	80.4
Bear OK55A	103.1	23.5	81.0	73.1
Bear OK72AA	117.7	20.8	88.2	84.5
Bear OK96	113.7	22.0	83.8	83.4
Bear OK96A	121.9	20.6	86.6	90.5
Bear Unicorn X600	104.6	20.7	76.9	83.3
Bear Unicorn X606	113.3	22.2	91.6	78.2
Canterbury 400	107.7	19.1	93.0	89.9
Canterbury 420	108.0	19.7	91.9	91.2
Cargill 330	98.3	20.5	93.5	85.5
Cargill 340	101.4	21.3	87.2	89.7
Crib Filler 66	108.8	21.6	90.2	85.4
Crib Filler 131	96.1	22.6	91.9	85.5
DeKalb 633	103.0	22.5	93.4	86.4
DeKalb 640	113.6	18.0	92.4	89.0
DeKalb 803A	102.9	22.5	91.5	89.4
DeKalb 805	129.8	20.4	95.8	90.5
DeKalb 837	94.7	23.0	68.1	92.3
DeKalb A703	114.1	22.7	84.1	87.5
DeKalb X02-031	102.1	23.4	96.0	83.6
DeKalb X82-030	114.0	21.1	79.5	83.0
DeKalb X91-005	109.3	23.0	94.4	73.8
DeKalb X8034	106.7	21.3	91.6	86.4
Frey F57	116.9	20.4	91.3	86.6
Frey 892	110.3	18.7	87.4	87.8
Illinois 1983 (Station)	105.2	19.0	92.7	87.6
Illinois 1996 (Stone)	120.8	22.6	91.4	89.1
Illinois 3160 (Station)	76.0	19.2	94.0	59.9
Illinois 3291 (Station)	103.4	19.8	81.4	76.8
Illinois 3343 (Station)	115.2	22.8	89.8	87.0
Illinois 3346 (Station)	126.4	21.9	93.2	88.8
Illinois 3348 (Station)	111.3	22.6	84.5	83.3
Illinois 8003 (Station)	102.1	22.0	85.4	91.2

(Table is concluded on next page)

Table 8. — Stanford — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Moews 524	109.7	22.2	90.9	89.7
Moews CB69A	113.9	20.7	91.5	92.1
Moews CB90A	117.5	22.3	93.7	81.6
Moews CB96A	95.7	20.3	87.3	87.5
Moews M560	112.6	20.8	86.8	88.8
Moews M700	112.6	22.6	94.8	87.9
Monier 6-M-6	121.5	21.6	92.3	90.9
Monier M-60	111.1	20.8	91.9	76.8
Mountjoy M-33	98.6	21.0	87.5	86.1
Mountjoy M-66	81.7	19.3	78.5	86.3
Mountjoy M-100	103.6	21.6	78.2	89.4
Mountjoy M-444	102.8	21.6	93.5	84.3
Northrup King KT632	114.2	21.7	92.2	90.9
Northrup King KT645	101.9	23.4	89.9	82.4
Northrup King KT652	121.2	23.9	92.6	85.5
Null N-100	138.2	21.1	89.3	88.1
P.A.G. 405	104.6	21.8	91.9	82.1
P.A.G. 418	101.8	22.0	79.0	82.7
P.A.G. 434	112.6	23.4	88.2	87.8
P.A.G. 436	103.0	22.6	91.8	90.3
P.A.G. 444	114.9	21.8	90.2	89.0
P.A.G. M-SX18 (formerly Exp. 11349)	105.0	22.4	93.1	83.9
P.A.G. SX14	122.5	21.5	99.1	91.4
P.A.G. SX19	131.1	22.2	96.6	88.7
P.A.G. SX29	127.5	21.6	95.7	87.2
Pioneer 302	117.4	24.1	88.5	87.9
Pioneer 309A	102.0	26.8	94.8	86.3
Pioneer 309B	103.5	28.6	95.7	83.1
Pioneer 312A	122.1	24.2	90.7	91.4
Pioneer 319	121.3	19.8	84.3	87.8
Pioneer 321	122.5	21.1	91.2	92.4
Pioneer 329	111.7	19.8	90.7	84.0
Pioneer 5701	117.7	21.3	91.8	95.9
Pioneer 6122	103.8	21.7	96.1	81.5
Pioneer X23	105.2	21.2	90.2	90.8
Stiegelmeier Hi-B-Jack S-300A	108.3	21.4	88.3	72.6
Stiegelmeier Hi-B-Jack S-396	118.8	23.8	95.5	84.6
Stiegelmeier Hi-B-Jack S-600	98.3	20.9	79.3	88.8
Todd 77R	83.2	21.1	87.5	82.7
Todd 627	110.7	21.0	94.0	83.9
Todd 635	105.5	21.9	92.8	92.0
Todd 645	105.2	20.6	94.9	89.7
Todd 840	94.1	21.6	83.6	80.1
Todd 855	108.5	21.2	87.7	84.8
Todd 862	115.7	22.1	88.7	85.7
Tomco 838	113.1	22.5	92.7	88.4
Tomco 957	101.8	23.2	98.0	75.9
Trisler T-19B	95.8	21.3	82.5	84.2
Trisler T-31B	108.8	24.0	89.6	77.6
Trisler T-32A	96.9	20.7	85.3	82.8
Trisler T-32B	99.3	21.9	97.6	85.7
Trisler T-35B	99.8	21.8	96.1	80.6
Trisler T-(X)	108.2	22.5	96.7	83.4
Troyer L13	98.9	22.0	85.6	89.7
Troyer L14T	91.8	22.8	95.3	86.9
Troyer M11T	91.5	20.5	86.5	86.3
Troyer M11TT	93.5	22.4	88.3	76.5
U.S. 13 (Station)	103.1	21.2	90.8	93.8
Van Horn V.H.101	102.5	22.9	87.4	90.5
Van Horn V.H.109	105.5	20.7	95.3	86.3
Van Horn V.H.111	96.6	21.9	89.1	86.0
Whisnand 814	110.8	21.0	95.6	87.3
Whisnand 830	103.0	22.1	87.4	85.4
Whisnand 852	116.0	22.7	88.0	86.6
Average of all entries	**108.1**	**21.7**	**89.8**	**85.5**
Number in range	Difference necessary for significance			
2	17.9	2.2	10.2	8.1
3-5	19.9	2.5	11.4	9.1
6-10	21.2	2.7	12.1	9.7
11-20	22.2	2.8	12.6	10.1
Over 20	22.6	2.8	12.8	10.3

Table 9. — EAST-CENTRAL ILLINOIS: Urbana

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1961				
	bu.	*perct.*	*perct.*	*perct.*
Stiegelmeier Hi-B-Jack S-600	126.1	22.0	89.4	90.7
Whisnand 852	126.0	24.3	91.3	89.2
Moews 524A	123.4	23.4	96.7	93.4
Stiegelmeier Hi-B-Jack S-396	122.6	24.0	91.9	89.5
Appl A-159	121.6	23.0	92.0	91.5
Bear OK96	121.5	24.1	94.7	88.5
Crib Filler 131	117.8	23.4	93.1	91.4
Frey 892	116.8	22.2	93.1	92.9
Canterbury 420	116.7	20.5	93.6	90.1
Pioneer 312A	116.6	24.8	94.0	90.3
Trisler T-35B	116.3	23.2	92.3	90.9
Frey 692	115.7	21.7	94.7	90.6
Canterbury 400	115.5	21.0	91.8	93.1
Tiemann T-72	115.5	21.8	94.8	90.7
Appl A-130	114.8	20.9	90.4	92.0
Moews 523	114.7	22.7	92.2	90.6
Troyer M11T	114.6	22.7	93.6	92.0
P.A.G. 444	114.6	25.8	96.5	89.2
Pioneer 309A	114.5	26.1	94.8	88.4
Trisler T-32B	114.4	21.9	92.8	90.4
Ainsworth X-14-3	114.4	21.9	89.8	91.0
Illinois 1421 (Pfeifer)	113.9	22.2	92.7	92.0
Whisnand 830	113.9	22.5	93.7	89.3
DeKalb 803A	112.9	23.6	92.3	89.4
Troyer L13	112.8	21.4	94.1	89.2
AES 805	111.4	22.7	95.8	90.9
Trisler T-33B	109.8	21.3	91.5	85.9
Troyer L14T	109.0	22.9	94.8	91.5
Trisler T-19B	108.9	20.5	92.7	90.2
Average of all entries	**116.1**	**22.7**	**90.5**	**90.5**
Number in range		Difference necessary for significance		
2	**8.9**	**2.0**	**5.7**	**N.S.**
3-5	**9.9**	**2.2**	**6.4**	**N.S.**
6-10	**10.5**	**2.4**	**6.8**	**N.S.**
11-20	**11.0**	**2.5**	**7.1**	**N.S.**
Over 20	**11.2**	**2.5**	**7.2**	**N.S.**
SUMMARY: 1959-1961				
DeKalb 805	124.6	22.4	96.9	91.1
Whisnand 852	120.5	24.7	87.6	84.8
Bear Unicorn X600	119.1	23.2	82.5	88.7
Bear OK878	118.7	23.3	95.4	87.2
Bear Unicorn X606	118.7	24.5	90.7	91.9
Stiegelmeier Hi-B-Jack S-600	118.4	22.7	87.1	89.2
Appl A-159	115.7	24.1	88.8	90.1
Stiegelmeier Hi-B-Jack S-396	114.5	24.3	88.1	88.7
Moews 524A	114.4	24.0	96.3	92.6
Illinois 1996 (Pfeifer)	113.4	23.2	92.3	86.6
Pioneer 321	113.0	24.2	95.5	87.3
Pioneer 319	112.9	22.1	96.2	89.5
Super-Crost 851	111.4	24.3	90.2	83.4
P.A.G. 418	111.4	24.4	92.7	88.6
Tiemann T-72	111.0	22.6	92.5	89.0
Bear OK96A	111.0	24.0	86.4	89.6
Van Horn V.H.111	110.2	22.8	82.8	89.6
P.A.G. 444	108.9	27.3	95.4	89.2
Trisler T-35B	108.9	24.3	88.3	87.6
Crib Filler 77	108.0	24.5	84.8	82.4
Canterbury 400	107.8	21.7	89.6	93.1
Monier 6-M-6	107.8	23.4	90.5	87.8
Ainsworth X-14-3	107.5	22.9	85.7	90.5
Canterbury 420	107.5	22.2	90.5	86.3
Crib Filler 131	107.4	23.7	90.6	89.5
Appl A-400	106.9	23.1	85.3	89.9
Frey 892	106.8	23.0	89.8	90.2
Bear OK96	106.7	24.5	91.5	84.3
Illinois 1421 (Pfeifer)	106.6	22.4	89.3	90.4
Appl A-130	106.5	22.1	85.9	91.5

(Table is continued on next page)

Table 9. — Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1959-1961 — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Whisnand 830	106.5	23.2	90.4	87.0
Moews 523	106.2	23.5	91.2	89.4
Troyer M11T	106.0	23.5	91.2	91.9
Pioneer 312A	105.8	25.6	92.2	88.1
Moews CB96A	105.7	22.9	98.0	91.6
Troyer L13	105.1	22.6	91.4	86.7
Frey 692	104.8	23.1	93.0	89.3
Trisler T-32B	104.5	22.3	88.3	88.5
Ainsworth X-98	102.3	23.2	93.4	85.6
DeKalb 803A	101.7	24.9	88.1	87.0
Crib Filler 124	101.6	23.0	87.6	81.5
Pioneer 309A	101.3	28.3	92.6	85.4
Trisler T-19B	98.7	20.5	88.8	87.0
AES 805	98.7	23.5	94.8	87.6
Todd 635	96.7	22.8	88.6	83.6
Trisler T-33B	95.2	21.5	87.0	79.4
Troyer L14T	94.2	23.9	92.9	89.4
Average of all entries	**108.1**	**23.5**	**90.4**	**86.1**
Number in range	Difference necessary for significance			
2	**13.0**	**1.8**	**N.S.**	**N.S.**
3-5	**14.5**	**2.0**	**N.S.**	**N.S.**
6-10	**15.4**	**2.1**	**N.S.**	**N.S.**
11-20	**16.1**	**2.2**	**N.S.**	**N.S.**
Over 20	**16.4**	**2.2**	**N.S.**	**N.S.**
1961 RESULTS				
AES 702 (Pfeifer)	116.8	25.9	83.1	91.5
AES 805 (Pfeifer)	100.2	27.2	88.5	82.8
Ainsworth X-14-3	110.3	27.0	70.8	88.5
Ainsworth X-98	94.9	29.1	92.4	77.0
Appl A-130	100.1	26.1	79.1	83.6
Appl A-159	116.6	28.2	84.9	83.8
Appl A-400	109.4	27.3	72.8	87.9
Appl A-440	93.9	29.8	85.1	76.6
Bear OK33	113.4	28.5	91.7	79.3
Bear OK44	120.4	28.6	92.5	82.5
Bear OK55A	122.7	30.1	85.0	83.4
Bear OK72AA	118.4	27.2	86.8	83.6
Bear OK96	109.2	29.0	87.6	80.9
Bear OK96A	106.2	28.8	84.4	89.9
Bear OK878	126.4	27.7	95.3	73.0
Bear Unicorn X600	125.0	28.5	83.3	81.6
Bear Unicorn X606	118.1	29.2	78.9	85.2
Bunning 107	111.7	26.8	90.4	82.5
Canterbury 400	112.6	26.3	85.3	95.9
Canterbury 420	117.3	26.5	91.1	82.5
Cargill 340 (formerly 5741)	114.9	26.8	85.6	86.1
Cargill 380	101.4	32.0	85.7	86.1
Crib Filler 66	112.0	27.2	86.6	77.8
Crib Filler 70	117.3	25.5	88.6	91.6
Crib Filler 77	117.8	30.1	84.0	77.1
Crib Filler 116	118.6	31.2	94.4	92.0
Crib Filler 123	114.9	30.2	88.0	76.7
Crib Filler 124	112.2	27.2	84.4	72.1
Crib Filler 131	110.1	27.1	90.4	80.4
DeKalb 803A	98.3	29.8	87.4	77.9
DeKalb 805	134.7	26.2	94.8	82.8
DeKalb 898B	106.9	30.4	79.3	89.0
DeKalb A504	107.8	27.4	89.2	81.1
DeKalb A703	104.9	30.9	84.2	89.3
DeKalb B720	110.0	30.4	76.6	81.2
DeKalb B721	113.4	29.3	85.5	91.0
DeKalb X02-031	91.0	29.1	80.0	81.2
DeKalb X91-005	109.4	27.6	86.1	80.3
DeKalb X8034	112.9	28.4	92.1	91.1
Embro 45LE	105.6	31.0	92.6	85.4
Frey 692	100.0	27.9	85.7	81.4
Frey 892	105.6	26.1	83.0	85.5

(Table is continued on next page)

Table 9. — Urbana — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — continued				
	bu.	*perct.*	*perct.*	*perct.*
Gutwein 650A	101.6	26.9	94.4	84.7
Hilligoss 9X3L	107.0	31.4	88.2	78.0
Hilligoss 84	106.8	31.1	82.1	81.5
Illinois 1421 (Pfeifer)	101.1	26.6	81.7	83.4
Illinois 1996 (Pfeifer)	113.8	25.5	85.4	75.0
Moews 523	108.9	28.6	89.9	81.1
Moews 524A	131.0	27.1	97.6	90.5
Moews CB96A	108.3	25.6	96.2	90.7
Moews M545	114.7	29.1	84.0	82.8
Moews M560	116.5	30.3	93.3	83.5
Monier 6-M-6	101.0	26.3	84.5	81.8
Monier M-60	100.4	26.7	89.4	83.5
Muncy Chief H522	97.7	24.2	88.4	81.0
Muncy Chief H760	102.0	23.9	84.7	88.0
Muncy Chief H802	102.4	28.2	88.5	79.1
Northrup King KT632	117.4	29.0	96.4	90.6
Northrup King KT645	108.5	29.3	90.8	87.2
Northrup King KT652	114.2	30.3	83.1	88.9
Null N-41	113.2	28.6	97.2	86.0
P.A.G. 405	112.2	28.6	93.2	85.2
P.A.G. 418	112.0	29.3	86.6	80.7
P.A.G. 436	112.6	29.8	88.9	83.2
P.A.G. 444	112.8	32.6	93.5	79.1
P.A.G. SX19	119.5	30.3	88.8	74.8
P.A.G. SX29	142.1	28.7	89.3	83.1
Pioneer 302	138.6	28.8	82.5	78.9
Pioneer 309A	106.3	33.5	86.4	75.1
Pioneer 312A	90.0	30.4	90.6	70.5
Pioneer 316A	91.7	28.9	93.3	76.2
Pioneer 319	118.9	23.9	93.2	80.5
Pioneer 321	119.9	27.2	92.3	76.2
Pioneer 321A	133.5	26.8	90.7	83.5
Pioneer 6201	112.1	23.0	91.5	74.2
Pioneer 6261	109.8	29.9	96.2	90.5
Pioneer X23	129.6	29.6	91.5	90.7
Princeton 8-A	113.4	28.7	92.4	84.8
Princeton 685	121.8	26.1	91.6	85.4
Princeton 840-A	109.2	26.2	94.2	81.0
Princeton 888	108.0	26.4	81.4	88.4
Princeton 890	109.2	26.6	75.7	75.5
Princeton 990-A	107.8	35.9	94.7	85.0
Schenk S-60A	123.2	26.1	95.5	85.5
Schenk S-73	115.6	29.5	91.7	85.0
Stiegelmeier Hi-B-Jack S-396	117.9	29.6	79.2	86.4
Stiegelmeier Hi-B-Jack S-600	125.4	25.8	77.6	87.0
Super-Crost 671	115.6	27.0	89.8	87.4
Super-Crost 690	109.8	27.1	98.0	84.8
Super-Crost 695	110.9	29.5	88.5	82.8
Super-Crost 851	127.3	28.1	87.8	76.6
Super-Crost 890	102.7	26.5	88.0	83.0
Super-Crost S6	121.4	25.1	91.7	84.4
Tiemann T-72	121.1	25.7	92.3	78.4
Todd 77R	103.8	24.8	93.4	80.7
Todd 424	105.3	25.6	91.4	86.8
Todd 453	117.7	22.4	94.6	88.0
Todd 627	127.8	25.8	94.2	82.5
Todd 630	116.2	25.2	86.2	78.7
Todd 635	90.9	28.4	75.5	77.8
Todd 645	103.5	27.0	95.5	71.1
Todd 855	120.5	31.1	89.7	75.8
Tomco 838	110.2	32.2	100.0	76.6
Tomco 957	113.1	31.5	96.5	73.4
Trisler T-19B	95.6	23.5	86.4	81.2

(Table is concluded on next page)

Table 9. — Urbana — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Trisler T-31B	110.0	30.2	77.0	76.2
Trisler T-32A	115.2	27.7	85.6	81.5
Trisler T-32B	110.4	28.0	82.4	88.2
Trisler T-33B	91.7	24.7	80.6	73.1
Trisler T-35B	119.2	30.0	79.4	84.8
Trisler T(X)	116.1	26.8	93.1	81.9
Troyer L13	111.8	26.0	85.7	78.5
Troyer L14T	102.6	27.9	88.3	89.3
Troyer M11T	108.0	28.2	91.6	86.4
Troyer M22	121.3	25.0	99.8	88.3
Van Horn V.H.101	113.2	31.3	88.3	72.0
Van Horn V.H.109	110.8	26.2	91.2	85.2
Van Horn V.H.111	91.6	28.5	76.9	82.3
Whisnand 814	117.8	26.1	88.8	79.5
Whisnand 830	106.4	26.5	82.2	82.0
Whisnand 852	119.9	31.1	91.2	76.6
Average of all entries	**111.7**	**28.0**	**88.0**	**82.5**
Number in range	Difference necessary for significance			
2	18.6	1.4	8.3	N.S.
3-5	20.8	1.5	9.2	N.S.
6-10	22.1	1.6	9.8	N.S.
11-20	23.3	1.7	10.3	N.S.
Over 20	24.7	1.8	10.9	N.S.

Table 10. — WEST SOUTH-CENTRAL ILLINOIS: Greenfield

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1961				
	bu.	*perct.*	*perct.*	*perct.*
Moews 524	99.5	19.2	83.5	90.8
Bear OK878	96.9	19.4	81.9	86.3
Bear OK96	96.4	20.0	83.3	90.2
Moews CB69A	94.1	18.7	89.0	90.6
Pioneer 302	93.2	21.1	83.4	89.7
Pioneer 309B	92.3	24.1	90.7	88.4
Whisnand 834	91.0	19.4	89.4	89.3
Whisnand 830	89.7	18.6	87.0	84.4
Canterbury 400	89.5	17.3	87.4	90.2
Pioneer 316	89.4	18.5	85.4	86.7
Canterbury 420	88.4	17.4	81.8	88.6
Whisnand 852	87.5	20.3	80.4	78.2
Average of all entries	**92.3**	**19.5**	**85.4**	**87.8**
Number in range	Difference necessary for significance			
2	N.S.	3.1	N.S.	7.4
3-5	N.S.	3.4	N.S.	8.2
6-12	N.S.	3.6	N.S.	8.8
SUMMARY: 1959-1961				
DeKalb 805	108.1	20.0	78.3	89.8
Bear Unicorn X606	103.5	21.3	74.0	91.3
Moews 524	101.9	19.5	76.9	93.6
Pioneer 321	101.8	20.6	76.0	91.5
Bear OK878	101.7	20.2	79.8	86.4
DeKalb 640	100.1	19.3	84.0	86.6
Bear OK96	97.2	20.8	74.4	90.8
Moews CB69A	96.8	19.4	82.9	93.2
Pioneer 312A	96.5	22.0	78.3	87.9
Canterbury 420	96.4	17.7	70.8	94.7
Pioneer 302	94.7	21.4	75.1	89.9
Whisnand 830	94.4	19.7	80.7	88.9
Princeton 685	93.9	19.7	81.0	87.4
Ainsworth X-100	93.7	21.1	81.3	90.6
Whisnand 852	92.8	21.0	70.1	83.7
Canterbury 400	91.3	17.9	82.2	92.5
Pioneer 316	90.9	19.1	76.9	87.5
Van Horn V.H.111	90.9	19.1	63.6	88.3
Whisnand 834	90.7	19.7	84.5	93.7
Cargill 320	90.0	19.5	77.2	90.2
Pioneer 319	89.6	18.8	70.5	91.4
Pioneer 309B	88.9	24.9	85.2	88.5
Moews CB96A	87.8	19.1	81.5	91.1
Ainsworth X-98	85.2	19.8	81.5	87.4
Average of all entries	**95.0**	**20.1**	**77.8**	**89.9**
Number in range	Difference necessary for significance			
2	13.4	1.4	12.8	N.S.
3-5	14.9	1.5	14.2	N.S.
6-10	15.9	1.6	15.1	N.S.
11-20	16.6	1.7	15.8	N.S.
Over 20	16.9	1.7	16.1	N.S.

(Table is continued on next page)

Table 10. — Greenfield — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Ainsworth X-98	84.6	18.3	86.8	81.7
Ainsworth X-100	97.6	19.6	67.0	83.2
Bear OK33	102.0	19.5	74.3	90.1
Bear OK44	121.4	19.7	78.3	93.8
Bear OK67	78.3	21.3	56.7	91.3
Bear OK72AA	100.4	18.6	69.2	83.3
Bear OK96	101.9	19.9	58.5	91.4
Bear OK96A	96.7	18.9	49.9	90.6
Bear OK878	106.2	18.7	63.9	92.0
Bear Unicorn X606	101.2	20.2	54.0	90.3
Canterbury 400	95.2	15.5	79.2	87.4
Canterbury 420	90.9	16.8	55.7	90.3
Canterbury 444	86.8	18.4	81.4	84.2
Cargill 320	88.0	19.1	62.0	83.1
Cargill 380	97.9	19.1	56.0	90.7
Corn of Tomorrow Y-3	94.9	20.7	69.5	90.5
DeKalb 640	104.2	18.0	68.8	91.3
DeKalb 805	110.2	19.2	64.9	87.8
DeKalb 812	96.2	19.1	72.4	90.6
DeKalb 898A	75.2	18.6	49.5	82.2
DeKalb 898B	81.9	21.4	55.6	93.2
DeKalb B720	99.7	19.6	54.3	95.4
DeKalb B722	111.5	19.6	59.1	92.1
DeKalb X02-040	80.9	17.8	66.8	86.6
DeKalb X91-005	108.1	19.9	83.5	88.6
DeKalb X92-251	102.5	19.7	56.9	86.4
Hilligoss 9X3L	91.8	16.7	64.2	86.6
Hilligoss 84	91.1	20.9	61.3	74.4
Illinois 3367 (Station)	105.2	18.1	81.1	89.0
Illinois 8001 (Station)	108.5	17.6	66.2	96.5
Jones GL1010	80.1	20.3	63.4	91.2
Moews 524	104.4	18.4	56.4	92.3
Moews CB69A	100.4	18.6	65.5	94.8
Moews CB96A	95.7	18.3	79.0	89.8
Moews M700	97.2	18.9	78.2	85.9
Morton M-6X	76.1	18.4	69.5	87.5
Morton M-12A	106.0	18.9	87.8	94.6
Northrup King KT632	97.4	18.8	78.4	84.0
Northrup King KT652	101.2	21.2	53.6	84.5
P.A.G. 418	85.0	19.3	67.5	88.5
P.A.G. 444	93.3	21.1	67.6	87.5
P.A.G. SX19	90.8	18.5	56.4	90.2
P.A.G. SX29	111.6	17.6	86.2	92.1
Pioneer 302	105.9	20.4	61.7	93.1
Pioneer 309B	90.1	22.8	86.2	83.3
Pioneer 312A	99.2	20.2	74.5	95.1
Pioneer 316	94.1	17.9	70.9	92.3
Pioneer 319	88.7	18.4	57.6	89.9
Pioneer 320	110.5	19.1	60.3	83.6

(Table is concluded on next page)

Table 10. — Greenfield — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Pioneer 321	118.0	17.4	62.9	93.3
Pioneer 6122	98.0	17.6	82.5	86.9
Pioneer 6261	114.7	19.2	70.2	96.0
Pioneer X23	114.4	17.9	74.2	92.9
Pocklington Exp. P-75	97.7	18.6	66.8	93.3
Pocklington Exp. P-78B	90.6	19.0	66.7	87.8
Pocklington P-64	93.2	19.1	60.2	86.7
Pocklington P-66	97.6	18.1	75.0	88.5
Pocklington P-75B	94.8	19.5	63.7	85.4
Pocklington P-78	95.9	19.3	57.7	89.7
Pocklington P-80	98.1	19.5	68.6	83.1
Pocklington P-84	79.2	22.6	68.8	85.8
Princeton 8-A	98.8	19.4	75.3	84.9
Princeton 685	96.6	17.4	69.4	89.3
Princeton 840-A	84.0	18.2	70.0	79.6
Princeton 888	104.0	18.6	55.2	87.1
Princeton 890	88.6	20.2	74.3	82.7
Stone 843	76.2	17.0	64.6	89.0
Super-Crost 695	90.0	17.5	66.7	86.7
Super-Crost 851	92.6	20.4	67.8	89.8
Super-Crost 880	74.4	16.9	53.8	90.4
Super-Crost 890	96.2	17.4	67.8	86.1
Tomco 838	77.3	20.0	68.7	78.2
Tomco 957	98.3	19.7	83.2	84.7
Van Horn V.H.109	90.4	18.2	72.2	81.3
Van Horn V.H.111	79.9	17.4	54.9	85.4
Van's V8-1A	86.9	21.2	75.4	90.1
Van's V8-2	102.5	17.3	77.0	93.2
Van's V8-102	102.2	21.6	80.9	89.5
Whisnand 830	90.9	19.9	68.7	88.5
Whisnand 834	76.4	18.6	81.7	91.3
Whisnand 852	81.7	19.8	50.3	75.6
Average of all entries	**95.3**	**19.0**	**67.7**	**88.2**
Number in range	Difference necessary for significance			
2	20.4	1.9	19.3	8.2
3-5	22.8	2.1	21.5	9.2
6-10	24.3	2.3	22.9	9.8
11-20	25.6	2.4	24.2	10.3
Over 20	26.9	2.5	25.4	10.8

Table 11. — SOUTHERN ILLINOIS: Brownstown

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957, 1958, 1959, and 1961				
	bu.	*perct.*	*perct.*	*perct.*
DeKalb 925 (W)	96.9	33.5	75.0	93.0
Pioneer 309B	94.9	33.2	85.9	87.7
P.A.G. 631W	92.8	32.3	76.3	91.9
Canterbury 420	89.7	25.1	83.4	92.5
Pioneer 319	87.2	27.8	90.5	93.9
Bear OK69	86.8	27.1	82.9	90.6
Bear OK878	86.2	28.0	81.4	91.2
Moews 523	85.8	25.8	83.6	92.7
DeKalb 803A	85.8	29.5	81.3	90.6
Van Horn V.H.76	85.2	27.0	77.7	92.1
Pioneer 302	84.5	30.4	81.0	92.8
Moews CB70A	83.9	26.8	86.6	92.4
Canterbury 400	83.9	29.5	81.0	88.8
Tiemann T-78	83.8	24.7	83.5	89.5
Tiemann T-72	83.1	26.6	81.8	89.3
Pioneer 312A	81.8	30.8	89.0	89.0
Crib Filler 131	78.2	28.7	85.0	87.0
Average of all entries	**86.5**	**28.6**	**82.7**	**90.9**
Number in range	Difference necessary for significance			
2	**8.9**	**2.0**	**N.S.**	**N.S.**
3-5	**9.9**	**2.2**	**N.S.**	**N.S.**
6-10	**10.5**	**2.4**	**N.S.**	**N.S.**
11-17	**11.0**	**2.5**	**N.S.**	**N.S.**
SUMMARY: 1959 and 1961				
DeKalb 925(W)	118.7	24.8	88.0	97.0
Pioneer 309B	112.0	31.1	95.0	95.0
Stull's 100Y	107.4	23.5	94.0	94.0
P.A.G. 631W	105.6	26.6	93.1	92.0
Bear OK96A	103.9	23.5	91.7	91.4
Stull's 101Y	102.9	22.9	94.0	91.0
Pioneer 321	102.5	23.0	93.4	95.3
Bear Unicorn X600	98.8	23.3	96.0	91.9
Pioneer 309A	98.7	28.9	97.2	88.9
Ainsworth Goldline 378	98.5	23.0	89.7	92.1
Canterbury 420	97.5	21.8	92.4	96.9
Ainsworth X-100	97.3	24.9	97.9	93.5
Canterbury 400	95.8	22.5	91.6	87.3
Pioneer 319	95.7	21.9	94.7	93.8
Pioneer 302	94.4	25.5	89.5	94.8
Pioneer 312A	94.3	25.7	96.0	91.0
Van Horn V.H.76	93.8	22.3	89.3	95.2
Moews 525	93.4	25.5	96.2	93.8
DeKalb 803A	92.8	25.1	92.5	88.8
Moews 523	91.9	22.5	92.3	95.9
Bear OK69	91.8	22.7	94.1	90.0
Bear OK878	90.2	22.7	95.7	91.7
Princeton 685	90.1	23.2	96.8	89.3
Moews CB70A	89.9	22.1	94.1	91.8
Tiemann T-72	88.7	22.4	95.2	89.2
P.A.G. 434	88.3	24.2	92.1	87.5
Moews CB96A	88.0	21.7	93.6	92.5
Crib Filler 124	86.7	22.2	96.0	85.0
Tiemann T-78	86.1	22.0	87.6	89.7
Princeton 890	83.4	24.4	92.0	89.0
Princeton 888	82.0	22.7	91.7	92.5
Crib Filler 131	80.1	23.3	91.0	85.0
Average of all entries	**95.0**	**23.8**	**93.0**	**92.0**
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.	2.5	N.S.	N.S.
11-20	N.S.	2.6	N.S.	N.S.
Over 20	N.S.	2.6	N.S.	N.S.

(Table is continued on next page)

Table 11. — Brownstown — continued

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Ainsworth Goldline 378	104.2	22.5	88.4	87.1
Ainsworth X-100	107.0	24.5	99.8	93.8
Bear OK69	103.7	22.0	89.2	90.3
Bear OK72AA	106.5	21.7	92.1	76.9
Bear OK89	107.6	23.2	90.8	78.9
Bear OK96A	125.2	22.8	94.5	90.1
Bear OK878	106.9	21.8	95.4	86.8
Bear Unicorn X600	104.1	23.4	95.9	84.7
Canterbury 400	91.1	22.0	92.2	85.2
Canterbury 420	100.4	21.6	92.7	97.1
Canterbury 444	94.7	23.4	94.7	87.2
Cargill 340	102.7	23.4	88.6	88.9
Cargill 380	91.8	27.3	92.0	88.4
Crib Filler 116	106.4	21.8	94.5	89.5
Crib Filler 124	92.9	21.6	94.3	82.9
Crib Filler 131	91.3	24.7	86.4	77.9
DeKalb 803A	94.2	25.4	90.1	84.6
DeKalb 886	98.2	25.0	94.5	94.1
DeKalb 898A	106.6	23.3	92.7	90.9
DeKalb 898B	106.5	25.1	92.1	89.2
DeKalb 925	135.3	25.2	91.7	95.8
DeKalb 925A	117.7	28.1	96.4	91.0
DeKalb B720	105.4	22.9	93.3	97.8
DeKalb B722	94.9	24.3	87.6	82.7
DeKalb X02-040	82.6	24.6	93.0	76.3
DeKalb X92-251	92.9	21.8	88.0	83.4
Hilligoss 9X3L	103.5	23.6	93.0	86.7
Hilligoss 84	105.7	24.8	94.5	81.3
Jones WJ70	108.1	23.0	94.3	91.8
Jones WJ80	99.1	23.0	93.4	90.0
Moews 523	101.6	22.1	91.6	97.9
Moews 525	107.1	26.7	98.5	94.5
Moews CB70A	109.0	21.1	90.3	93.5
Moews CB90A	101.5	22.5	89.9	95.2
Moews CB96A	99.7	21.2	90.2	94.7
Moews M700	101.3	24.5	89.7	93.3
Northrup King KT632	93.0	21.6	90.2	86.9
Northrup King KT652	107.1	24.9	94.4	93.1
P.A.G. 434	92.0	24.7	92.3	82.7
P.A.G. 436	94.0	24.4	92.9	82.6
P.A.G. 444	100.3	26.8	97.0	88.8
P.A.G. 631W	115.5	26.8	92.1	91.7
P.A.G. SX29	121.2	22.6	97.6	97.8
Pioneer 302	107.7	25.5	89.1	97.4
Pioneer 309A	108.3	30.4	98.5	83.7
Pioneer 309B	129.5	30.7	98.0	96.2
Pioneer 312A	107.0	26.6	93.4	93.4
Pioneer 312B	91.1	24.9	91.5	75.8
Pioneer 319	102.3	21.6	94.4	93.8
Pioneer 321	120.4	22.9	92.8	96.0
Pioneer 6201	99.9	22.1	96.0	92.0
Pioneer 6261	102.6	22.0	90.9	97.3
Princeton 8-A	102.9	23.2	93.4	88.1

(Table is concluded on next page)

Table 11. — Brownstown — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Princeton 685	97.1	23.3	96.6	89.2
Princeton 840-A	89.2	22.5	98.7	85.8
Princeton 888	84.8	22.5	88.4	93.6
Princeton 890	91.6	24.6	95.2	86.8
Princeton 990-A	112.7	28.1	98.3	84.0
Schenk S-60A	91.7	23.4	96.8	88.2
Schenk S-70A	107.3	23.0	96.4	86.0
Schenk S-73	101.0	23.5	96.0	88.5
Schenk S-84	95.3	22.7	93.4	84.4
Stull's 100Y	118.5	23.5	96.4	95.8
Stull's 100YA	87.9	26.2	98.2	80.4
Stull's 101Y	115.9	21.2	94.7	85.0
Stull's 101YA	99.9	22.6	94.3	95.5
Stull's 107Y	100.0	22.4	89.3	94.0
Stull's 400W	113.1	23.0	95.7	96.6
Tiemann T-72	94.9	21.5	92.4	84.4
Tiemann T-78	96.2	20.1	88.2	91.9
Van Horn V.H.76	105.8	21.6	89.7	95.3
Van Horn V.H.109	90.6	22.5	95.4	91.0
Average of all entries	**102.7**	**23.7**	**93.3**	**89.2**
Number in range	Difference necessary for significance			
2	**17.4**	**2.1**	**7.7**	**11.8**
3-5	**19.3**	**2.3**	**8.5**	**13.1**
6-10	**20.6**	**2.3**	**9.1**	**13.9**
11-20	**21.5**	**2.6**	**9.5**	**14.6**
Over 20	**21.9**	**2.6**	**9.7**	**14.8**

Table 12. — EXTREME SOUTHERN ILLINOIS: Dixon Springs, 1961; Wolf Lake, 1957-1960

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
SUMMARY: 1957-1961				
	bu.	*perct.*	*perct.*	*perct.*
Stull's 400W	100.3	19.4	91.9	90.7
Pioneer 309B	98.4	22.7	98.1	89.2
Pioneer 309A	95.4	20.5	99.3	87.1
DeKalb 925(W)	95.2	20.0	93.8	90.1
Whisnand 830	95.1	18.6	95.8	88.2
Whisnand 852	94.6	19.2	96.5	87.0
DeKalb 1023	94.3	21.3	81.6	88.8
P.A.G. 631W	93.0	19.9	94.8	86.6
Pioneer 319	92.9	17.7	94.6	90.5
Pioneer 302	91.2	19.7	95.8	92.8
Ainsworth X-14-A	89.9	18.7	87.2	89.8
Average of all entries	**94.6**	**19.8**	**94.0**	**89.2**
SUMMARY: 1959-1961				
Pioneer 309B	94.7	24.8	97.0	86.7
Whisnand 830	93.3	19.6	94.7	87.1
DeKalb 925(W)	92.6	21.8	90.1	88.8
Pioneer 309A	92.6	22.5	99.1	84.6
Schenk S-90W	91.8	22.4	93.6	90.6
Stull's 400W	91.6	21.4	86.0	86.9
Whisnand 852	91.4	20.7	95.4	85.9
Pioneer 302	90.2	21.4	94.9	89.5
DeKalb X82-029	89.5	20.9	75.6	89.6
Pioneer 319	89.1	19.0	91.9	87.5
Princeton 890	88.6	21.3	85.9	89.3
DeKalb 805	88.1	20.8	94.4	86.6
DeKalb 1023	87.0	23.8	69.2	84.5
Princeton 685	86.2	21.0	94.4	89.0
Ainsworth X-100	85.5	20.6	95.2	86.1
P.A.G. 631W	84.8	21.6	92.6	83.0
Princeton 888	84.7	20.1	85.0	86.1
Moews CB96A	83.2	19.5	94.4	89.0
Ainsworth X-14-A	80.0	20.3	79.5	88.5
Average of all entries	**88.5**	**21.2**	**89.9**	**87.2**
Number in range	Difference necessary for significance			
2	N.S.	1.1	13.9	N.S.
3-5	N.S.	1.2	16.0	N.S.
6-10	N.S.	1.3	16.5	N.S.
11-18	N.S.	1.3	17.3	N.S.
1961 RESULTS				
Ainsworth X-14-A	85.9	23.5	57.3	84.8
Ainsworth X-100	104.5	22.7	98.1	79.5
Burgdorf's B846	93.8	21.8	77.8	80.3
Burgdorf's B99W	124.0	25.1	88.1	80.3
Crib Filler 123	110.1	22.5	91.4	79.5
Crib Filler 138	92.6	26.7	94.4	80.3
DeKalb 805	97.8	23.3	96.5	84.8
DeKalb 886	92.3	26.9	98.0	77.2
DeKalb 898B	95.8	25.8	95.5	81.0
DeKalb 925	118.6	24.1	88.0	87.8
DeKalb 925A	109.4	23.9	82.4	84.8
DeKalb 1023	89.3	26.9	54.1	84.0
DeKalb A715	98.8	22.7	97.2	84.0
DeKalb X82-029	81.9	23.7	52.2	86.3
DeKalb X92-235	83.3	27.3	96.8	77.2
DeKalb X92-251	78.7	22.5	70.0	90.9
Embro 107W	97.9	27.8	94.8	58.3
Hilligoss 9X3L	94.9	22.9	97.3	84.8
Hilligoss 84	103.4	21.8	94.7	73.4
Jones WJ70	98.2	23.4	86.4	83.3
Jones WJ80	103.4	22.7	97.9	78.7
Moews 814A	107.0	23.5	87.6	92.4
Moews CB90A	101.9	21.1	97.9	83.3

(Table is concluded on next page)

Table 12. — Dixon Springs — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Moews CB96A	93.3	21.9	84.2	87.1
Moews M700	98.0	21.3	91.2	86.3
Northrup King KT632	100.4	24.0	92.9	86.3
Northrup King KT652	95.9	25.2	93.7	78.0
P.A.G. 444	98.4	23.6	97.9	72.7
P.A.G. 631W	113.8	23.4	92.4	79.5
P.A.G. SX19	118.5	20.8	100.0	81.8
Pioneer 302	103.9	25.0	89.5	84.8
Pioneer 309A	103.1	24.5	98.2	78.7
Pioneer 309B	106.5	28.4	98.3	87.8
Pioneer 312A	100.0	24.0	97.3	85.6
Pioneer 312B	122.1	23.5	98.3	81.8
Pioneer 319	87.2	22.1	89.2	79.5
Pioneer 321	102.6	22.0	95.2	82.5
Pioneer 6201	96.3	22.8	97.1	79.5
Pioneer 6261	101.7	21.4	89.1	87.1
Princeton 8-A	89.2	23.2	100.0	80.3
Princeton 685	96.3	23.8	93.9	87.1
Princeton 840-A	97.4	21.2	97.0	80.3
Princeton 888	80.4	22.4	76.5	83.3
Princeton 890	113.6	23.9	93.0	87.8
Princeton 990-A	111.6	23.8	96.4	84.0
Schenk S-73	108.2	21.7	98.9	84.0
Schenk S-86	95.7	24.9	85.0	80.3
Schenk S-87	107.4	24.7	92.6	79.5
Schenk S-90W	108.8	26.8	97.5	91.6
Schenk S-99W	105.4	23.5	96.1	77.2
Stull's 100Y	105.8	24.2	91.8	75.0
Stull's 100YA	103.8	20.7	96.2	80.3
Stull's 101Y	105.6	22.9	97.3	80.3
Stull's 101YA	94.2	22.7	80.1	81.8
Stull's 107Y	100.8	21.9	91.7	81.8
Stull's 400W	99.4	23.7	76.1	81.8
Stull's 500W	113.9	27.1	86.9	84.0
Van Horn V.H. 101	94.2	24.8	92.2	80.3
Whisnand 830	113.3	21.6	97.1	79.5
Whisnand 852	90.0	23.3	95.0	77.2
Average of all entries	**100.7**	**23.6**	**90.5**	**81.9**
Number in range	Difference necessary for significance			
2	17.6	3.1	12.5	N.S.
3-5	19.6	3.5	13.9	N.S.
6-10	20.9	3.7	13.9	N.S.
11-20	21.9	3.9	15.4	N.S.
Over 20	22.2	4.0	15.7	N.S.

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				
SUMMARY: 1959-1961				
	bu.	*perct.*	*perct.*	*perct.*
DeKalb 640	115.5	28.0	81.0	88.2
P.A.G. Exp. 15018	115.2	25.7	73.5	90.2
DeKalb 440	111.6	26.1	77.5	93.5
Illinois 1996 (Station)	108.1	26.3	68.4	89.4
Moews 505A	107.9	25.6	78.3	89.7
Moews 48A	107.9	26.8	80.7	91.8
Wyffels W-600	107.3	26.9	79.7	94.5
P.A.G. 234	104.3	24.6	72.0	95.5
Hulting 242	103.1	26.1	75.9	90.5
Pioneer 329	103.1	26.6	75.2	90.1
Pioneer 345	101.9	25.0	65.5	95.5
DeKalb 633	101.6	28.4	71.4	91.4
DeKalb 444	101.0	26.0	83.2	92.5
Pioneer 371	100.8	22.5	75.4	91.6
Moews 500A	97.9	27.9	72.2	86.8
Illinois (Hy2x0h7)(Station)	95.7	26.5	58.4	88.1
Illinois (WF9xC103)(Station)	74.6	26.6	87.5	71.6
Average of all entries	**103.4**	**26.2**	**75.0**	**90.1**
Number in range	Difference necessary for significance			
2	**20.3**	**1.7**	**12.0**	**8.7**
3-5	**22.6**	**1.9**	**13.4**	**9.7**
6-10	**24.0**	**2.0**	**14.2**	**10.3**
11-17	**25.1**	**2.1**	**15.1**	**11.0**
1961 RESULTS				
Cargill S412 (formerly 5929)	116.3	23.9	88.6	89.3
DeKalb 427	85.6	26.6	46.6	88.3
DeKalb 440	107.2	25.3	52.4	94.9
DeKalb 444	104.2	25.3	70.1	95.4
DeKalb 633	99.9	28.6	41.2	93.4
DeKalb 640	117.1	27.1	56.8	84.3
DeKalb A506	84.4	28.2	51.9	90.4
Farmer's Union FU366	87.5	27.0	65.3	73.7
Frey 460	101.6	26.5	61.5	85.3
Hulting 237	113.9	23.8	38.3	90.4
Hulting 242	96.4	26.5	43.8	91.9
Illinois 1996 (Station)	92.4	26.1	39.9	81.8
Illinois 3348 (Station)	111.4	28.2	50.2	88.8
Illinois 3384 (Station)	74.2	27.7	33.4	92.9
Illinois Exp. 61-1 (Station)	98.0	27.1	24.5	89.8
Illinois Exp. 61-2 (Station)	89.4	25.3	36.0	89.8

(Table is concluded on next page)

Table 13. — INCREASED PLANTING RATES — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS — concluded				
	bu.	*perct.*	*perct.*	*perct.*
Illinois Exp. 61-3 (Station)	97.5	26.5	34.2	92.4
Illinois Hy2x0h7 (Station)	57.3	25.9	16.5	89.8
Illinois WF9xC103 (Station)	77.0	25.6	72.3	54.0
Moews 48A	95.6	25.4	65.0	92.4
Moews 500A	102.1	27.5	40.4	81.8
Moews 505A	108.8	25.9	61.8	87.3
Moews M540	89.5	29.2	67.5	89.8
Moews M560	99.3	26.6	35.2	82.3
P.A.G. 234	87.9	23.4	44.4	97.9
P.A.G. 285	104.5	25.9	70.4	89.3
P.A.G. Exp. 11549	127.7	27.4	61.1	89.3
P.A.G. Exp. 15018	104.8	25.7	42.2	92.4
Pioneer 320	118.8	26.8	61.5	96.9
Pioneer 321	118.4	26.8	53.0	78.2
Pioneer 328B (formerly 5536)	108.9	27.6	62.0	96.9
Pioneer 329	100.6	25.5	51.4	90.4
Pioneer 342B	89.7	26.7	41.2	88.8
Pioneer 345	85.3	26.3	37.6	96.9
Pioneer 354A	101.6	22.9	43.4	88.8
Pioneer 371	99.3	23.3	55.3	93.9
Pioneer 3304 (formerly 80201)	116.2	27.0	59.6	78.2
Pioneer 3481 (formerly 6670)	100.3	26.7	54.0	82.8
Sieben S-440E	102.7	25.9	51.1	79.7
Sieben S-560	83.6	25.9	55.6	87.8
Tomco 583	82.1	25.8	31.9	89.3
Wyffels W-600	95.0	26.6	63.5	90.9
Average of all entries	**98.4**	**26.2**	**50.8**	**88.1**
Number in range	Difference nceessary for significance			
2	21.6	2.8	17.4	10.9
3-5	24.0	3.1	19.3	12.2
6-10	25.7	3.3	20.6	12.9
11-20	26.7	3.5	21.5	13.5
Over 20	27.2	3.5	21.9	13.8

Table 14. — INCREASED PLANTING RATES

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
EAST-CENTRAL ILLINOIS: Urbana — 24,000 plants per acre				
SUMMARY: 1959-1961				
	bu.	*perct.*	*perct.*	*perct.*
Bear Unicorn X710	114.0	24.7	76.7	90.2
Illinois Hy2x0h7 (Station)	108.6	21.9	77.2	82.6
P.A.G. Exp. 15017	105.7	19.2	97.6	87.8
Pioneer 319	105.1	22.1	89.6	90.3
P.A.G. 418	100.2	22.9	86.5	92.6
Pioneer 321	99.7	23.2	79.2	85.9
Bear OK69	99.7	23.9	74.7	90.2
Mountjoy M-55	99.6	22.0	86.7	86.9
Whisnand 852	99.2	24.4	78.8	84.0
DeKalb 805	97.7	21.7	86.6	90.4
Whisnand 830	96.6	21.7	83.0	84.9
Pioneer 302	96.1	25.4	83.5	93.0
Pioneer 309A	94.7	26.5	76.1	88.4
Pioneer 312A	94.4	24.0	86.1	83.4
Todd 635	93.0	22.6	86.7	84.8
Average of all entries	**100.3**	**23.1**	**83.3**	**87.7**
Number in range	Difference necessary for significance			
2	N.S.	2.0	N.S.	N.S.
3-5	N.S.	2.2	N.S.	N.S.
6-10	N.S.	2.3	N.S.	N.S.
11-15	N.S.	2.4	N.S.	N.S.

(Table is concluded on next page)

Table 14. — INCREASED PLANTING RATES — concluded

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
1961 RESULTS				
	bu.	*perct.*	*perct.*	*perct.*
Bear OK69	109.2	29.4	78.2	91.9
Bear Unicorn X710	132.1	30.9	68.1	92.9
Canterbury 420	104.2	25.5	79.8	93.9
Cargill 330	93.9	27.1	81.8	88.8
Crib Filler 70	103.4	26.5	78.1	91.4
Crib Filler 116	113.2	29.0	88.6	89.8
Crib Filler 123	92.7	29.2	78.0	88.3
DeKalb 633A	114.3	25.9	81.5	93.4
DeKalb 805	103.4	25.0	72.8	87.3
DeKalb A703	108.2	28.7	63.8	90.4
DeKalb X02-031	87.8	28.7	79.3	91.4
DeKalb X8135-0	82.3	27.4	91.0	86.3
Embro 44XE	117.5	30.0	92.1	86.3
Frey Exp. 60	140.1	28.8	83.2	92.4
Illinois Hy2xOh7 (Station)	117.6	25.3	73.1	73.2
McAllister 66B	112.6	26.8	94.5	92.4
McAllister 88B	111.7	26.3	84.0	96.9
Moews M560	104.6	26.7	82.5	80.8
Moews M700	93.5	27.4	90.4	90.4
Monier 6-M-6	93.5	27.8	68.3	85.3
Morton M-6X	97.2	27.1	73.4	88.8
Mountjoy M-55	97.8	26.4	77.1	89.8
P.A.G. 418	99.2	26.1	83.1	87.8
P.A.G. 444	107.3	32.9	82.4	94.9
P.A.G. Exp. 15017	109.9	23.0	94.6	94.9
P.A.G. SX19	124.9	30.7	70.0	86.8
P.A.G. SX29	124.1	25.7	84.3	87.3
Pioneer 302	112.1	31.3	82.8	90.9
Pioneer 309A	108.8	33.6	90.7	87.3
Pioneer 312A	121.4	30.3	82.7	67.1
Pioneer 316A	103.8	28.6	92.0	77.2
Pioneer 319	112.7	25.2	90.9	88.3
Pioneer 321	104.5	28.2	74.3	82.8
Pioneer 321A	110.6	27.0	77.0	92.4
Pioneer 6201	100.7	24.6	87.5	91.9
Pioneer 6261	115.5	27.1	81.9	86.8
Pioneer X23	120.7	28.6	81.1	94.4
Tiemann T-68	98.8	23.4	81.8	88.3
Tiemann T-72	113.4	23.1	65.8	93.9
Todd 453	99.9	24.7	92.1	90.9
Todd 627	114.6	27.5	84.3	88.3
Todd 630	96.3	26.6	80.0	82.8
Todd 635	89.2	26.3	83.5	86.3
Todd 645	107.9	26.4	90.2	90.9
Todd 855	97.0	32.1	75.9	80.3
Trisler T-32B	102.7	25.8	70.9	83.8
Trisler T-35B	97.5	28.6	76.4	88.3
Trisler T-(X)	98.2	25.0	84.1	85.8
Whisnand 830	96.7	26.0	69.2	85.3
Whisnand 852	107.6	29.4	83.4	79.7
Average of all entriea	**106.5**	**27.5**	**81.1**	**88.0**
Number in range	Difference necessary for significance			
2	19.5	2.8	14.8	11.5
3-5	21.7	3.1	16.5	12.8
6-10	23.1	3.3	17.6	13.6
11-20	24.1	3.5	18.4	14.2
Over 20	24.5	3.5	18.7	14.5

Table 15. — INCREASED PLANTING RATES

Entry	Total acre yield	Moisture in grain at harvest	Erect plants	Stand
WEST-CENTRAL ILLINOIS: Greenfield, 20,000 plants per acre				
SUMMARY: 1959-1961				
	bu.	*perct.*	*perct.*	*perct.*
Pioneer 321	109.7	19.3	75.6	88.3
Illinois 1332 (Station)	100.1	18.1	76.1	85.1
Pioneer 312A	100.1	21.3	79.0	79.3
DeKalb 805	100.0	20.0	76.9	88.6
Whisnand 830	97.1	18.9	75.7	80.0
DeKalb 640	96.9	18.6	75.8	87.4
P.A.G. 415	96.3	18.9	80.9	85.9
DeKalb 803A	96.1	20.5	67.8	78.7
Bear OK69	95.7	19.8	75.1	85.8
Pioneer 302	94.5	22.1	75.5	90.8
Pioneer 309B	92.9	24.0	76.0	86.2
Illinois Hy2xOh7 (Station)	90.8	19.3	66.6	82.9
Pioneer 319	89.4	17.8	73.2	79.6
Whisnand 852	89.2	20.7	72.1	80.3
Pioneer 316	88.0	19.2	72.2	83.2
Bear Unicorn X710	80.8	20.5	64.1	82.8
Average of all entries	**95.2**	**20.0**	**74.0**	**84.3**
Number in range	Difference necessary for significance			
2	11.0	1.9	N.S.	N.S.
3-5	12.3	2.1	N.S.	N.S.
6-10	13.0	2.2	N.S.	N.S.
11-15	13.6	2.4	N.S.	N.S.
1961 RESULTS				
Bear OK69	89.7	18.3	69.5	86.6
Bear Unicorn X710	66.7	17.5	58.3	84.2
DeKalb 633	82.8	18.1	78.2	86.6
DeKalb 640	85.4	18.3	75.4	87.2
DeKalb 803	96.8	17.8	80.8	89.0
DeKalb 803A	88.9	17.7	76.8	66.0
DeKalb 805	103.8	17.2	83.2	86.0
DeKalb 812	104.1	17.3	78.3	81.2
DeKalb A504	68.9	16.8	61.0	92.7
DeKalb A703	85.5	18.0	59.1	84.8
DeKalb X91-005	102.2	17.0	81.0	80.0
DeKalb X8034	92.2	16.7	74.6	84.2
Illinois 1332 (Station)	83.8	14.7	79.0	89.6
Illinois 1996 (Station)	70.1	17.5	60.5	84.8
Illinois Exp. 61-1 (Station)	87.9	17.9	55.2	86.6
Illinois Exp. 61-3 (Station)	86.1	14.2	74.6	86.6
Illinois Hy2xC103 (Station)	85.1	18.3	79.6	86.0
Illinois Hy2xOh7 (Station)	82.4	16.5	79.0	77.5
Moews M560	97.8	18.0	78.8	89.0
Moews M700	94.9	19.1	90.6	91.5
P.A.G. 415	94.9	15.8	84.3	89.6
P.A.G. SX19	82.7	18.9	68.9	81.8
P.A.G. SX29	107.4	17.5	83.1	89.0
Pioneer 302	104.8	18.5	80.8	95.1
Pioneer 309B	85.1	21.3	79.2	78.7
Pioneer 312A	96.8	18.7	82.7	84.2
Pioneer 316	90.1	16.1	76.9	86.6
Pioneer 319	81.5	15.0	71.7	81.2
Pioneer 320	92.0	16.5	77.0	95.7
Pioneer 321	107.8	16.8	71.9	89.0
Pioneer 6122	85.3	17.0	79.4	87.2
Pioneer 6261	83.1	17.4	72.2	76.9
Pioneer X23	90.7	17.6	84.6	98.1
Whisnand 830	100.4	16.5	73.7	79.3
Whisnand 852	77.0	18.4	72.5	72.7
Average of all entries	**89.6**	**17.4**	**75.2**	**85.3**
Number in range	Difference necessary for significance			
2	24.0	2.8	12.3	11.7
3-5	26.8	3.1	13.7	13.0
6-10	28.6	3.3	14.6	13.9
11-20	29.8	3.5	15.3	14.5
Over 20	30.4	3.5	15.5	14.8

INDEX TO TABLES

Several of the tables are divided into two or more sections, and an entry may appear in several places in a table. Five-year or three-year summaries are shown first in each table, followed by the 1961 results for the particular test location. Hybrids are ranked according to their yield in the summaries, but are listed alphabetically in the 1961 results.

Index to tables — continued

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