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1961 Performance of COMMERCIAL CORN HYBRIDS in Illinois

By Earl R. Leng
G. L. Ross



Location
of 1961
test fields

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PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 1961

By EARL R. LENG and G. L. ROSS¹

ABUMPER 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

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²Estimates 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	Moisture	Erect	Stand
			acre yield	in grain	plants	
Regular planting rate			<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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	
Viriden 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.
Hillgoss Hybrids.....	Hillgoss 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)	Ill. 3343..... (R71×R74)(H49×H55)
AES 805... (WF9×38-11)(C103×Oh45)	Ill. 3346..... (R71×R168)(H49×H55)
Ill. 1332... (WF9×38-11)(Hy2×Oh7)	Ill. 3347..... (R74×R101)(H49×H55)
Ill. 1421... (WF9×Hy2)(P8×Oh7)	Ill. 3348..... (R74×R109B)(H49×H55)
Ill. 1660... (K4×K201)(Oh7×CI.21E)	Ill. 3367..... (R74×WF9)(Oh7×CI.21E)
Ill. 1952... (M14×B14)(A545×W64A)	Ill. 3382..... (R109B×WF9)(B14×Oh43)
Ill. 1983... (Hy2×B14)(WF9×38-11)	Ill. 3383..... (M14×WF9)(R172×Oh43)
Ill. 1996... (Hy2×Oh7)(B14×C103)	Ill. 3384..... (Hy2×Oh7)(WF9×Oh41)
Ill. 3160... (WF9×Oh7)(B14×Oh43)	Ill. 8001..... (Hy2×R138)(Oh7×Oh7B)
Ill. 3266... (R74×R109B)(WF9×Oh43)	Ill. 8003..... (WF9×Oh7)(H55×C103)
Ill. 3270... (R74×R168)(WF9×Oh43)	Ill. Exp. 61-1... (88-4A)(Hy2×07)(A110)
Ill. 3291... (P8×WF9)(B14×Oh43)	Ill. Exp. 61-2... (249-4A)(Hy2×07)
Ill. 3303... (M14×Oh43)(R172×B14)	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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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
Embros 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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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 KTL.....	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				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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 54A.....	77.7	26.8	19.8	80.7
Super-Crost 55.....	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 UH31140.....	85.8	25.6	66.0	81.9
United-Hagie UHVV30.....	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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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 M11 T.....	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 M17 T.....	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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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 entries.....	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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
Whisnand 830.....	106.5	23.2	90.4	87.0
Moews 523.....	106.2	23.5	91.2	89.4
Troyer M11 T.....	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
Embros 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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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 MS60.....	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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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
Vau 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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>
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	81.0
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 W170.....	98.2	23.4	86.4	83.3
Jones W180.....	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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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	20.1	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 (11y2x0h7)(Station).....	95.7	26.5	58.4	88.1
Illinois (WF ⁹ xC103)(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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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 necessary 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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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 entries.....	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				
	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
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

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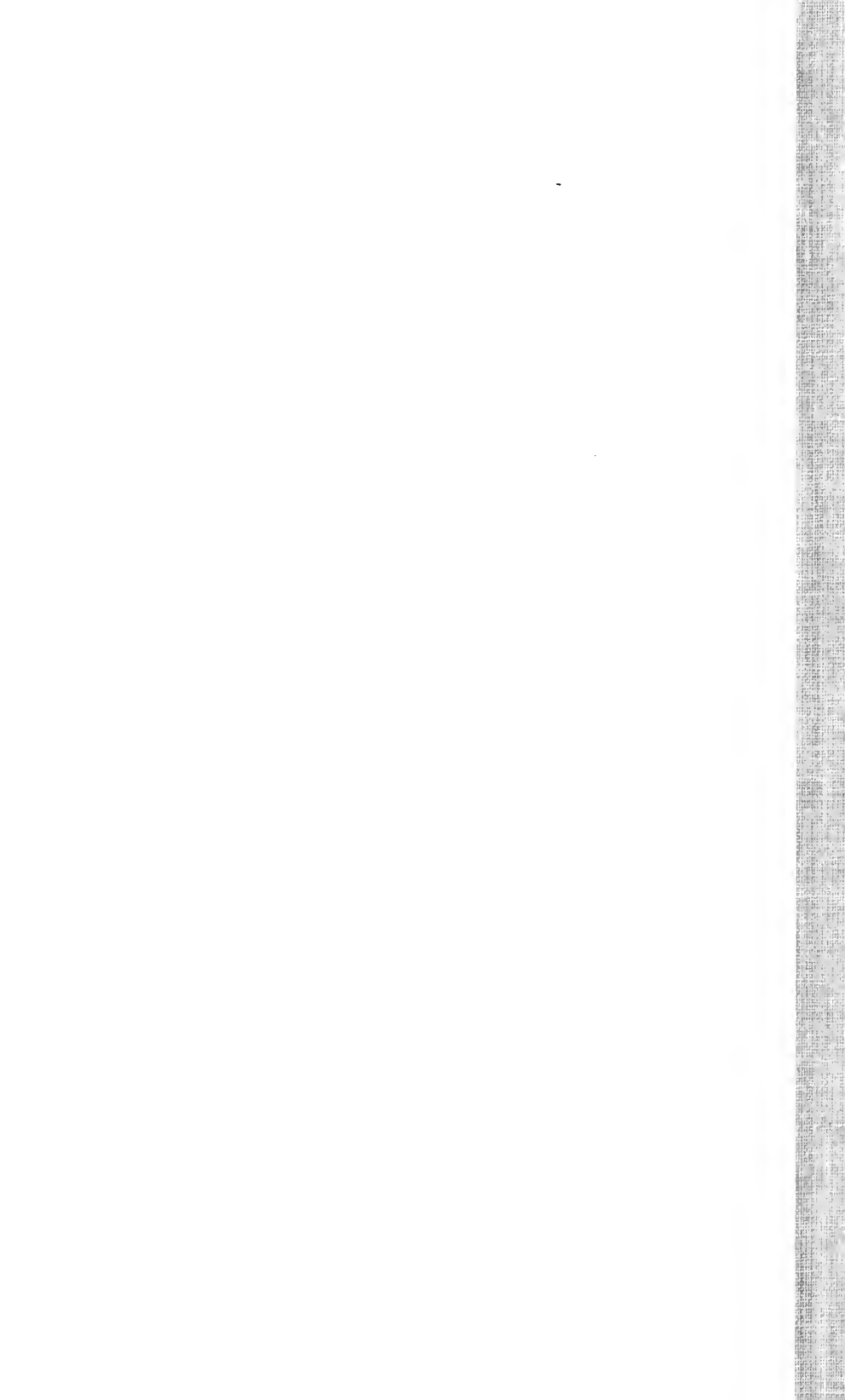
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