

# 1970 PERFORMANCE OF CORN HYBRIDS IN ILLINOIS

(WITH 1968-1969 AVERAGES)

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By D. W. Graffis, G. L. Ross,  
and J. E. Dillon

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This circular was prepared by D. W. Graffis, Associate Professor of Forage Crops Extension, G. L. Ross, Assistant Agronomist, and J. E. Dillon, Associate Agronomist. Data processing was done by the Statistical Laboratory of the Agronomy Department. R. D. Seif, Professor of Biometry, and S. G. Carmer, Associate Professor of Biometry, supervised the analysis and preparation of the data.

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## PERFORMANCE OF CORN HYBRIDS IN ILLINOIS, 1970

CORN YIELDS IN ILLINOIS in 1970 are estimated to average 75 bushels per acre, or 23 bushels less than the 1969 average production. A wet, cool spring delayed planting throughout the state. Some corn was planted as much as six to eight weeks later than normal and the prospects for record yields were "washed out" early in the growing season. Flooding, saturated soils, inability to apply herbicides at the right time, and side-dress nitrogen that was not applied preplant all hampered the growth and survival of the corn crop. A severe drouth during July and August in many areas of the state further reduced the yields while a wet October slowed harvest.

An already potentially poor corn year received the "crowning blow" when a new race of southern corn leaf blight (*Helminthosporium maydis* T.) appeared. The disease was detected in some fields in late June and spread over the entire state during July, August, and September. The disease caused severe damage to nearly all hybrids produced by the male sterile system.

Essentially all of the male sterility in corn hybrids marketed in 1970 was controlled by a particular cytoplasm that was discovered several years ago by geneticists in Texas and was named the Texas cytoplasm. This cytoplasm was very successful in transmitting male sterility to the next generation. The system was so effective in controlling fertile or sterile pollen that about 90 percent of all hybrids available in 1970 were produced by the male sterile system using the Texas source of male sterile cytoplasm.

Unfortunately, a new race of southern corn leaf blight appeared through mutation or by some other unknown means. The new race was able to infect and grow rapidly on hybrids produced by the male sterile system using the Texas source of male sterile cytoplasm. The old race of southern corn leaf blight could infect these same hybrids but made little growth because of genetic resistance.

A new disease, a large acreage of susceptible crop, and suitable climatic conditions for growth and spread of the disease resulted in one of the poorest corn years in recent history.

Fortunately, it is known that corn hybrids produced without using the Texas cytoplasm for male sterility are resistant to southern corn leaf blight race T. These hybrids have the ear parent rows detasseled by hand to remove their fertile pollen to prevent inbreeding. The pol-

len-bearing rows are present as in all seed production fields, providing pollen for the detasseled rows.

Also, some of the hybrids produced with Texas male sterile cytoplasm have some resistance to southern corn leaf blight race T. The degree of resistance varies considerably among hybrids, but rarely are hybrids from male sterile parentage as resistant as hybrids from nonmale sterile (normal cytoplasm) parentage.

The tables in this circular list southern corn leaf blight rate T ratings for each hybrid entry. Use the leaf blight rating in conjunction with the yield of the hybrid in 1970 for a relative estimate of the leaf blight resistance. Notice that not all locations were equally severely infected. *Do not compare yields or leaf blight ratings of a hybrid at one location with another hybrid at another location. Make all comparisons within a test location.*

The leaf blight ratings were made in late August but some advance in leaf area damage occurred after this date. Thus the ratings should not be interpreted as the extent of the damage for the entire season.

Yields for 1968-1969 and for 1970 are presented separately to provide an indication of relative performance of hybrids both in the absence and the presence of southern corn leaf blight race T.

Because the type of cytoplasm largely determines the resistance of hybrids to southern corn leaf blight race T, participating seed companies were asked to supply information on the type of cytoplasm in their entries in the tests reported in this circular. Hybrids using Texas male sterile cytoplasm are referred to as Tms cytoplasm. Hybrids without the Tms cytoplasm are referred to as normal cytoplasm, designated "N." Hybrids composed of a mixture of seeds, some from Tms and some from N cytoplasm, as referred to as a blend, designated "B." The cytoplasm source in the University of Illinois tests may have been different than that offered for sale to farmers in 1970 and may be different in 1971. Information on the cytoplasm sources for 1970 and on plans for 1971 is given in Table 3. Use this information when evaluating the leaf blight ratings and yields obtained in 1970. If the cytoplasm source is unknown (unsure), the designation "U" is used.

## PLAN OF THE TESTS

**Selection of entries.** Each year all producers of hybrid seed corn in Illinois and surrounding states are invited to enter hybrids in the Illinois performance trials. To finance this testing program, a fee is charged for each hybrid entered by seed companies. Most of these

hybrids are commercially available, but seed companies occasionally enter experimental hybrids for testing.

**Number and location of tests.** In 1970, 18 major tests were carried on at 11 locations in the state (see map on page 7). These sites were chosen to represent major soil and climatic areas of the state.

**Hybrids.** This year over 360 hybrids were tested, including entries from 46 companies. The seed companies supplied seed of their entries.

**Field-plot design.** Each test was set up in either randomized complete block or lattice designs. These arrangements are practical and efficient and give each hybrid an equal chance to show its merits.

**Planting methods.** All trials were planted by machine except those at Woodstock and Augusta, which were planted by hand to obtain an earlier planting. All test fields except those at DeKalb, Urbana, Brownstown, and Carbondale were part of larger corn fields and were surrounded by market corn. Plots were kept small to avoid differences due to soil variation. Each individual plot was three rows, 26 feet long. The center row of each plot was harvested to check performance. All plots were overplanted 30 percent and later thinned to desired stand.

**Fertilization.** In general, all test fields were at a high level of fertility. Additional fertilizer was plowed down or side-dressed as needed to assure top yields.

**Method of harvest.** All plots were harvested mechanically with a self-propelled corn-head combine. Shelled corn from each plot was collected, weighed, and tested for moisture percentage. No allowance was made for shelled corn that might have been lost in harvest.

## MEASURING PERFORMANCE

It sometimes happens that hybrids too late in maturity for a given area are entered in the tests. While such hybrids often are high in yield, their high moisture content might make them unsafe choices for use unless proper drying or storage facilities are available. Therefore, the hybrids in the 1968-1969 average are listed in the order of their kernel moisture with lowest moisture listed first.

**Yield of grain.** Shelled-corn weight and moisture percentage were measured for each plot of a hybrid and converted to yields of No. 2 shelled corn (15.5 percent moisture). An electronic moisture tester was used for all moisture readings.

Table 1. — General Information: Illinois Hybrid Corn Tests, 1970

Field, county, location, and number of entries	Date planted	Date har- vested	Aver. acre yield	Mois- ture in grain	Lodged plants	Aver. popula- tion
<b>40-inch rows, 18,000 plants per acre</b>						
Woodstock: McHenry, Ex. N, 39.....	May 21	Oct. 26	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	
Augusta: Hancock, WC, 67.....	May 29	Nov. 3	116	23.1	12	17,700
Urbana: Champaign, EC, 63.....	May 22	Oct. 16	93	23.1	12	17,200
Brownstown: Fayette, S, 40.....	May 18	Oct. 1	120	26.6	29	17,900
			48	24.1	2	17,900
<b>30-inch rows, 18,000 plants per acre</b>						
DeKalb: DeKalb, N, 46.....	May 5	Oct. 23	112	22.0	31	17,500
Greenfield: Macoupin, WSC, 41.....	May 19	Sept. 29	101	27.4	21	18,000
Carbondale: Jackson, Ex. S, 25.....	May 25	Oct. 2	24	25.3	13	17,700
Dixon Springs: Pope, Ex. S, 40.....	May 27	Oct. 5	75	24.5	25	17,400
<b>30-inch rows, 22,000 plants per acre</b>						
Brownstown: Fayette, S, 51.....	May 18	Oct. 1	50	22.6	3	21,600
Carbondale: Jackson, Ex. S, 36.....	May 25	Oct. 2	37	25.6	9	19,600
<b>30-inch rows, 24,000 plants per acre</b>						
DeKalb: DeKalb, N, 81.....	May 5	Oct. 22	118	21.4	41	22,900
Elwood: Will, ENC, 54.....	May 7	Oct. 27	110	22.5	14	23,400
Stanford: McLean, C, 84.....	May 20	Oct. 30	112	21.3	38	23,500
Urbana: Champaign, EC, 102.....	May 23	Oct. 19	120	25.3	38	23,600
Greenfield: Macoupin, WSC, 49.....	May 19	Sept. 29	102	27.4	17	23,900
Dixon Springs: Pope, Ex. S, 38.....	May 27	Oct. 5	96	25.3	20	22,700
<b>28-inch rows, 18,000 plants per acre</b>						
Galesburg: Knox, WNC, 45.....	May 8	Nov. 2	124	20.1	13	17,600
<b>28-inch rows, 24,000 plants per acre</b>						
Galesburg: Knox, WNC, 80.....	May 8	Nov. 2	117	19.2	13	21,600

**Erect plants.** The number of erect plants in each plot of a hybrid was counted at harvest time. Any plant leaning at an angle of more than 45 degrees or broken below the ear was considered lodged. Plants broken above the ear were considered erect.

**Stand.** In late June, plants in all plots on all fields were counted and the percent of stand was computed by comparing this number with the number of kernels planted. Plots with over 100 percent stand were thinned at this time. Stand differences may be caused by failure to germinate or by disease, insect injury, or cultivation damage.

**Plants per acre.** Plants per acre was calculated for each plot by using the percent stand obtained from plant counts. Differences in plants per acre are caused by the same factors that cause differences in percent stand.

**Blight infection.** The observations were noted during the last week of August. A reading of zero indicates no blight visible. A reading of 5 to 10 indicates blight visible but little or no growth. Higher readings indicate sensitivity to blight and the amount of infection on the plants. A number of hybrids were observed as being blends of N and Tms cytoplasm and were averaged. Drouth caused premature dying of corn at the Elwood field and prevented reliable leaf blight ratings.

**Comparing hybrids.** In any test of plant material, it is impossible to measure performance exactly. Samples may vary, soils may not be uniform, and many other conditions may produce variability. **Results of repeated tests, like those reported in this circular, are more reliable than those of a single year or a single strip test.** In general, a yield difference of a few bushels per acre is not significant in these tests. When one hybrid consistently outyields another at several test locations and over several years of testing, the chances are good that this difference is *real* and should be a consideration in choosing a hybrid. But yield alone is not enough. Consider also the grain moisture content, percentage of erect plants, percent stand, or plants per acre in comparing hybrids.

As an aid to comparing hybrids, certain statistical tests have been devised. D. B. Duncan<sup>1</sup> has outlined an approach to the problem of multiple comparisons when only two means are compared among a set of hybrid means. Certain factors not accounted for in previous tests of this type are included in Bayes L.S.D. This test is applied in the same manner as previous statistical tests used in these circulars. When two hybrids in a trial are compared, and the difference between them is greater than the tabulated L.S.D. value, then the hybrids are said to be "significantly different."

## GROWING CONDITIONS ON 1970 TEST FIELDS

**Extreme Northern Illinois: Woodstock.** This test field represents the cool, humid area in northeastern Illinois. The test plot is on land operated by the Hughes Farms and Seed Co. The soil type is Proctor silt loam, a fertile, deep, well-drained, dark prairie soil. This plot was in a field of third-year corn.

**Northern Illinois: DeKalb.** This test is on the University's Northern Illinois Research Center near Shabbona in DeKalb County. R. E. Bell is field manager of the research center. The soil type is Flanagan silt loam, a dark-brown, adequately drained soil of high fertility. The rotation used is a corn-corn-oats-clover rotation. The high planting rate test was in first-year corn. The low planting rate was in second-year corn. The field was wet and cold at planting time and high-population stands were reduced on some of the hybrids.

**West North-Central Illinois: Galesburg.** This test is located on the Hawkinson Farms, operated by Harold and Dave Hawkinson. The test field represents the highly fertile, heavy-textured, Sable silty clay loam of the area. The plot was in a field of third-year corn. Cold,

<sup>1</sup>Duncan, D. B., "A Bayesian Approach to Multiple Comparisons," *Technometrics*, 7:171-222, 1965.

Table 2. — Growing Season Rainfall

Field	May	June	July	August
	<i>inches</i>			
Woodstock.....	5.5	5.5	.6	.6
DeKalb.....	5.2	7.0	6.4	.2
Galesburg.....	6.1	7.5	3.6	4.6
Elwood.....	4.8	6.3	.7	2.4
Augusta.....	5.6	6.1	2.4	7.8
Stanford.....	4.8	2.8	1.9	3.6
Urbana.....	1.6	3.2	4.5	3.1
Greenfield.....	3.5	6.5	2.6	1.8
Brownstown.....	4.8	9.0	2.6	1.4
Carbondale.....	3.3	4.7	1.7	2.9
Dixon Springs.....	6.6	5.4	.5	.9

wet weather in early May reduced some of the high-population stands. The field was damaged in mid-August by hail.

**East North-Central Illinois: Elwood.** This plot was moved from the Ashkum area to the Elwood Research Center in 1969. The Elwood field is in Will County and Dale Harshbarger is the field manager. The soil is a Drummer silty clay loam. The field suffered from a severe midsummer drouth.

**West-Central Illinois: Augusta.** This test is located on the William Finney farm, west of Augusta in Hancock County. The soil is Harrison silt loam, a moderately well-drained, dark grayish-brown prairie soil. The area was wet all spring causing a delay in planting. Adequate rainfall throughout the growing season resulted in good corn yields in spite of the late May planting.

**Central Illinois: Stanford.** During the past four years, this field has been located on a farm operated by Howard Logsdon in the western part of McLean County. The soil is a deep, well-drained, fertile Muscatine silt loam. The area was wet in the spring and most of the planting was done two weeks later than the year before.

**East-Central Illinois: Urbana.** This test is located on the Agronomy South Farm of the University of Illinois at Urbana-Champaign in Champaign County. M. G. Oldham is the farm manager. Fields on which the test plots were grown are level, heavy-textured Drummer silty clay loam. The conventional 40-inch trial and 30-inch trial were in the second year of corn of a corn-corn-oats-alfalfa rotation.

**West South-Central Illinois: Greenfield.** This test represents the moderately poorly drained, level soils of western south-central Illinois. The soil type is Herrick silt loam. It is located on the C. H. Ross, Jr. farm northeast of Greenfield in Macoupin County.



**Southern Illinois: Brownstown.** This test is located on the University's Brownstown Experiment Field in Fayette County. The soil is Cisne silt loam, a poorly drained, gray prairie soil with a well-developed claypan. Natural fertility of the soil is not high. Arden Christensen is the area agronomist in charge of the field.

**Extreme Southern Illinois Bottomland: Dixon Springs.** This test was located at the Dixon Springs Agricultural Center in Pope County. The test plot is on an area of Sharon silt loam, which is a light-colored moderately well-drained to well-drained, medium-textured bottomland soil. Fertility of this field is high. G. E. McKibben is the area agronomist in charge of this field. The field had a severe infection of leaf blight early in August.

**Extreme Southern Illinois Upland: Carbondale.** The test at Carbondale represents a typical upland area in southern Illinois. This test was carried on at the Southern Illinois University and University of Illinois Agronomy Research Center, where Roy Browning is superintendent. The soil types are classified as Weir and Stoy silt loams, which are rather shallow, silty soils over claypan. The growing season started normally and in early July it appeared that there would be an ideal crop. However, by August 1 the summer drought had already done its damage. Many varieties that did not set seed were noted and the leaf blight was active.



Location of 1970 test fields.

## SOURCES OF SEED

ACCO Seed	Anderson-Clayton	Belmond, Iowa
Ainsworth Hybrids	Ainsworth Seed Co.	Mason City
ASGROW Hybrids	ASGROW Seed Co.	4244 Clinton Ave., Des Moines, Iowa
Bear Hybrids	Bear Hybrid Corn Co.	Box 628, Decatur
Blaney Hybrids	Blaney Farm, Inc.	R. R. 4, Madison, Wis.
Bo-Jac Hybrids	Bo-Jac Hybrid Corn Co.	Mt. Pulaski
Burgdorf's Hybrids	Burgdorf's Seed Co.	5101 W. Broadway, Evansville, Ind.
C.I. Seed	Central Illinois Seed Inc.	R. R. 6, Springfield
Coop Hybrids	Farmland Industries, Inc.	P.O. Box 7305, Kansas City, Mo.
Cornelius Hybrids	Cornelius Seed Corn Co.	Bellevue, Iowa
Corn King Hybrids	Malcolm H. Grieve	Pierson, Iowa
Dittmer Hybrids	Dittmer Seeds	Carthage
Dockendorff Hybrids	Max Dockendorff	Danville, Iowa
Farmers Union Hybrids	Farmers Union Seed Co.	Cedar Falls, Iowa
Forster Hybrids	Conrad, Inc.	Box 88, Houghton, Iowa
Frey Hybrids	Frey Hybrid Corn Co., Inc.	Gilman
Gutwein Hybrids	Fred Gutwein & Sons	Francesville, Ind.
Hoblit Hybrids	Hoblit Seed Co.	Atlanta
Holden Hybrids	Holden Foundation Hybrids	Williamsburg, Iowa
Hughes Hybrids	Hughes Hybrids, Inc.	Woodstock
Lewis Hybrids	Frank W. Lewis & Son Seed Farms	Ursa
McAllister Hybrids	McAllister Seed Farms	Mount Pleasant, Iowa
McNair Hybrids	McNair Seed Co.	P.O. Box 706, Laurinburg, N.C.
Migro Hybrids	Midwest Seed Growers Assn., Inc.	Mitchell, Ind.
Moews Hybrids	Moews Seed Co.	Granville
Northrup-King Hybrids	Northrup, King & Co.	1500 Jackson St., N.E. Minne- apolis, Minn.
O's Gold Hybrids	O's Gold Seed Co., Inc.	R.R. 2, Parkersburg, Iowa
Pioneer Hybrids	Pioneer Hi-Bred Corn Co. of Illinois	Princeton
Pocklington Hybrids	Pocklington Bros.	R.R. 2, Girard
Prairie Stream Hybrids	Prairie Stream Farm, Inc.	Frankfort, Ind.
Princeton Hybrids	Princeton Farms	Box 319, Princeton, Ind.
Renk Hybrids	Wm. F. Renk & Sons Co., Inc.	Sun Prairie, Wis.
Schenk's Hybrids	Charles H. Schenk & Sons, Inc.	Vincennes, Ind.
Sieben Hybrids	Sieben Hybrids	Geneseo
Stewart Hybrids	Stewart Hybrids Inc.	Princeville
Stull Hybrids	Stull Brothers, Inc.	Sebree, Ky.
Super-Crost Hybrids	Edw. J. Funk & Sons	Kentland, Ind.
Taylor-Evans Hybrids	Taylor-Evans Seed Co.	Tulia, Texas
Todd Hybrids	Todd Hybrid Corn Co.	Burlington, Ind.
Tracy Hybrids	Tracy Seed Farms	R. R. 1, Janesville, Wis.
Tri. Co. Hybrids	Tri. Co. Seed Corn Co.	Ridgway
Trisler Hybrids	Trisler Seed Co.	Fairmount
Trojan Hybrids	Trojan Seed Co.	Box 367, Windfall, Ind.
Van Horn Hybrids	Van Horn Hybrids, Inc.	Cerro Gordo
Victor Hybrids	Polo Seed Co.	Polo
Whisnand Hybrids	Whisnand Hybrid Corn Co.	R. R. 3, Arcola

Table 3. — Cytoplasm Types of Varieties in 1970 and 1971 Plans

Brand	Variety	Cytoplasm type <sup>a</sup> in 1970		Plans for this hybrid in 1971	
		U. of I. tests	Commercial sales	For sale?	Cytoplasm type <sup>a</sup>
ACCO	TGG933	Tms	Tms	Yes	Tms
ACCO	TGG956	Tms	Tms	Yes	Tms
ACCO	U333	Tms	Tms	Yes	Tms
ACCO	U343	Tms	Tms	Yes	Tms
ACCO	U353	Tms	Tms	Yes	Tms
ACCO	U363	Tms	Tms	Yes	Tms
ACCO	U383	Tms	Tms	Yes	Tms
ACCO	UC2300	Tms	Tms	Yes	N & Tms
ACCO	UC2700	Tms	Tms	Yes	Tms
ACCO	UC3300	Tms	Tms	Yes	N & Tms
ACCO	UC3600	Tms	Tms	Yes	Tms
ACCO	UC4500	Tms	Tms	Yes	Tms
ACCO	UC4600	Tms	Tms	Yes	Tms
ACCO	UC5200	Tms	Tms	Yes	Tms
ACCO	UC6000	Tms	Tms	Yes	Tms
ACCO	UC8500	Tms	Tms	Yes	Tms
ACCO	UC8800	Tms	Tms	Yes	Tms
ACCO	UC8900	Tms	Tms	Yes	Tms
Ainsworth	X-9	Tms	Tms	Yes	Tms
Ainsworth	0344	Tms	Tms	No	
Ainsworth	0354	Tms	Tms	No	
Ainsworth	0384	Tms	Tms	No	
Ainsworth	0793	Tms	Tms	Yes	Tms
Ainsworth	4473	Blend	Blend	Yes	B 50% N & 50% Tms
Ainsworth	4473A	Tms	Tms	No	
Ainsworth	4773	Tms	Tms	Yes	Tms
Ainsworth	6507	Blend	Blend	Yes	B 30% N & 70% Tms
Ainsworth	7332	Tms	Tms	Yes	Tms
Ainsworth	7348	Blend	Blend	Yes	N
Ainsworth	8478	Blend	Blend	Yes	N
Ainsworth	8493	Blend	Blend	Yes	N & Tms
Ainsworth	8773	Normal	Normal	Yes	N & Tms
Ainsworth	8795	Normal	Normal	No	
Asgrow	ASC97	Tms	Tms	Yes	Tms
Asgrow	IXL9	Normal	Normal	Yes	N
Asgrow	RX94	Tms	Tms	Yes	Tms
Bear	459	Tms	None	No	
Bear	876	Tms	None	No	
Bear Unicorn	X405	Tms	None	Yes	Tms
Bear Unicorn	X405E	Tms	None	No	
Bear Unicorn	X410	Tms	Tms	Yes	Tms
Bear Unicorn	X410E	Normal	None	No	
Bear Unicorn	X495	Normal	None	No	
Bear Unicorn	X666	Tms	None	No	
Bear Unicorn	X672	Tms	None	No	
Bear Unicorn	X845	Tms	None	Yes	Tms
Bear Unicorn	X872	Normal	Tms	Yes	Tms
Bear Unicorn	X4686	Tms	None	No	
Bear Unicorn	X6157	Normal	None	No	
Bear Unicorn	X8333	Tms	None	No	
Blaney	B601	Tms	Tms	Yes	Tms
Blaney	6616	Tms	Tms	Yes	Tms
Blaney	B401	Tms	Tms	Yes	Tms
Blaney	B501A	Tms	Tms	Yes	Tms
Blaney	Double A	Tms	Tms	Yes	Tms
Bo-Jac	3451	Tms	Tms	Yes	Tms
Bo-Jac	X1A	Blend	Blend	Yes	Tms
Bo-Jac	X1-82	Tms	Tms	No	
Bo-Jac	X1-83	Blend	Blend	Yes	B 50% N & 50% Tms
Bo-Jac	X1-92	Blend	Blend	No	
Bo-Jac	X2E	Tms	Tms	Yes	Tms

<sup>a</sup>N = Normal; B = Blend; Tms = Texas male sterile; U = Unsure.

Table 3. — Cytoplasm Types, continued

Brand	Variety	Cytoplasm type <sup>a</sup> in 1970		Plans for this hybrid in 1971	
		U. of I. tests	Commercial sales	For sale?	Cytoplasm type <sup>a</sup>
Bo-Jac	X3	Unsure	Unsure	Unsure	
Bo-Jac	X5	Blend	Blend	Yes	Tms
Bo-Jac	X7	Blend	Blend	No	
Bo-Jac	X7L	Blend	Blend	Yes	Tms
Bo-Jac	X9	Normal	Normal	Yes	Normal
Bo-Jac	X12E	Tms	Tms	Yes	Tms
Bo-Jac	X15	Blend	Blend	Yes	Tms
Bo-Jac	X15E	Blend	Blend	Yes	Tms
Bo-Jac	X20	Tms	Tms	Yes	Tms
Bo-Jac	X51	Blend	Blend	Yes	B 35% N & 65% Tms
Bo-Jac	X53	Blend	Blend	Yes	N
Bo-Jac	X70	Tms	Tms	Yes	Tms
Bo-Jac	X97	Tms	Tms	No	
Bo-Jac	X135	Tms	Tms	Yes	Tms
Burgdorf	B-99-AW	Tms	Tms	Yes	Tms
Burgdorf	B-837Y	Tms	Tms	Yes	Tms
Burgdorf	B-846Y	Tms	Tms	Yes	Tms
Burgdorf	B-922W	Tms	Tms	Yes	Tms
Central Illinois	C. I. 40	Tms	Tms	Yes	Tms
Central Illinois	C. I. 47	Tms	Tms	Yes	Tms
Central Illinois	C. I. 2304	Tms	Tms	Yes	Tms
Coop.	S-205	Tms	Tms	Yes	Tms
Coop.	S-304	Normal	Normal	Yes	N
Coop.	T-308	Tms	Tms	Yes	N
Cornelius	333X	Tms	Tms	Unsure	N
Cornelius	363X	Tms	Tms	Unsure	Tms
Cornelius	373X	Tms	Tms	Yes	Tms
Cornelius	383X	Tms	Tms	Yes	Tms
Cornelius	CSX40	Tms	Tms	Yes	Tms
Cornelius	SX36A	Blend	Tms	Yes	Tms
Corn King	1122	Blend	Blend	Yes	N & Tms
Corn King	1155	Normal	Normal	Yes	N
Dittmer	D-803	Tms	Tms	Yes	Tms
Dittmer	D-823	Tms	Tms	Yes	Tms
Dockendorff	D12	Tms	Tms	Yes	Tms
Dockendorff	D17	Tms	Tms	Yes	Tms
Farmers Union	004	Tms	Tms	Unsure	
Farmers Union	007	Tms	Tms	Unsure	
Farmers Union	2175	Tms	Tms	Unsure	
Farmers Union	2360	Tms	Tms	Unsure	
Farmers Union	2366	Tms	Tms	Unsure	
Farmers Union	SX55A	Tms	Tms	Unsure	
Forster	360X	Tms	Tms	Yes	Tms
Forster	410X	Tms	Tms	Yes	Tms
Forster	420X	Tms	Tms	No	
Forster	430X	Normal	Normal	Yes	N
Forster	695	Tms	Tms	Yes	Tms
Frey	F49	Tms	Tms	Yes	Tms
Frey	F58	Tms	Tms	Yes	Tms
Frey	F60	Tms	Tms	Yes	Tms
Frey	FX55	Tms	Tms	Yes	Tms
Frey	FX80	Tms	Tms	No	
Gutwein	10A	Tms	Tms	No	
Gutwein	20	Tms	Tms	Yes	Tms
Gutwein	69A	Blend	Blend	Yes	Tms
Gutwein	87A	Tms	Tms	Yes	Tms
Gutwein	120	Tms	Tms	Yes	Tms
Gutwein	EX25	Blend	Blend	Yes	B 25% N & 75% Tms
Hoblit	XR445	Blend	Blend	Yes	N
Hoblit	XR446	Unsure	Blend & Tms	Yes	B 50% N & 50% Tms

<sup>a</sup>N = Normal; B = Blend; Tms = Texas male sterile; U = Unsure.

Table 3. — Cytoplasm Types, continued

Brand	Variety	Cytoplasm type <sup>a</sup> in 1970		Plans for this hybrid in 1971	
		U. of I. tests	Commercial sales	For sale?	Cytoplasm type <sup>a</sup>
Hoblit	XR448	Tms	Tms	Yes	Tms
Holdens	Exp. 001	Normal	Experimental	No	
Holdens	Exp. 025A	Tms	Experimental	No	
Holdens	Exp. 033A	Tms	Experimental	No	
Holdens	Exp. 035	Normal	Experimental	No	
Holdens	Exp. 1001	Normal	Experimental	No	
Holdens	Exp. 1003	Normal	Experimental	No	
Holdens	Exp. 1004	Normal	Experimental	No	
Holdens	Exp. 1005	Tms	Experimental	No	
Holdens	Exp. 1006	Normal	Experimental	No	
Hughes	Exp. 17-2	Blend	Blend	Yes	B 25% N & 75% Tms
Hughes	Exp. 2901	Tms	Tms	Yes	Tms
Hughes	SLX6	Tms	Tms	Yes	Tms
Hughes	SLX8	Tms	Tms	Yes	Tms
Hughes	SLX20	Tms	Tms	Yes	Tms
Hughes	SLX20A	Tms	Tms	Yes	Tms
Hughes	SLX27	Tms	Tms	Yes	Tms
Hughes	SLX31	Tms	Tms	Yes	Tms
Lewis	701	Tms	Tms	Yes	Tms
Lewis	711	Tms	Tms	Yes	Tms
Lewis	870	Tms	Tms	Yes	Tms
Lewis	X-9	Tms	Experimental	No	
Lewis	X-16	Tms	Experimental	No	
Lewis	X-58B	Blend	Blend	Yes	B
Lewis	X-68B	Tms	Tms	Yes	Tms
Lewis	X-78	Tms	Tms	Yes	Tms
Lewis	X-80	Normal	Experimental	No	
McAllister	MX-6301	Tms	Tms	Yes	Tms
McAllister	SX-66	Tms	Tms	Yes	Tms
McAllister	SX-6584	Normal	Normal	Yes	N
McAllister	SX-6827	Tms	Tms	Yes	Tms
McAllister	SX-6832	Tms	Tms	Yes	Tms
McAllister	SX-6837	Tms	Tms	Yes	Tms
McAllister	SX-6841	Tms	Tms	No	
McAllister	SX-6861	Tms	Tms	Yes	Tms
McAllister	SX-6883	Blend	Tms	Yes	Tms
McAllister	SX-6948	Tms	None	No	
McAllister	TX-747	Tms	Tms	Yes	Tms
McNair	Exp. 7090	Tms	None	No	
Migro	M-405X	Tms	Tms	Yes	Tms
Migro	M-445X	Tms	Tms	Yes	Tms
Migro	M-540	Tms	Tms	Yes	Tms
Migro	M-1010SX	Tms	Tms	Yes	Tms
Moews	M3320	Normal	None	No	
Moews	M3359W	Normal	Normal	Yes	N
Moews	M3381	Tms	None	No	
Moews	M3420	Normal	Experimental	No	
Moews	M6378	Tms	Tms	No	
Moews	M6391	Tms	Tms	No	
Moews	M7291	Tms	Tms	No	
Moews	M7372	Normal	None	No	
Moews	M7730	Tms	Tms	No	
Moews	M8281	Normal	None	No	
Moews	M8283	Normal	None	No	
Moews	M8781	Normal	Tms	Yes	Tms
Moews	Sup'r Maiz 44	Tms	Tms	Yes	Tms
Moews	Sup'r Maiz 220	Normal	Tms	Yes	Tms
Moews	Sup'r Maiz 229	Tms	Tms	Yes	Tms
Moews	Sup'r Maiz 327	Tms	Tms	Yes	Tms
Moews	Sup'r Maiz 429	Tms	Tms	Yes	Tms

<sup>a</sup>N = Normal; B = Blend; Tms = Texas male sterile; U = Unsure.

Table 3. — Cytoplasm Types, continued

Brand	Variety	Cytoplasm type <sup>a</sup> in 1970		Plans for this hybrid in 1971	
		U. of I. tests	Commercial sales	For sale?	Cytoplasm type <sup>a</sup>
Moews	Sup'r Maiz 438	Tms	Tms	Yes	Tms
Moews	Sup'r Maiz 520	Tms	Tms	Yes	Tms
Moews	Sup'r Maiz 620	Tms	Tms	Yes	Tms
Moews	Sup'r Maiz 721	Tms	Tms	Yes	Tms
Moews	Sup'r Maiz 730	Tms	Tms	Yes	Tms
Northrup-King	KT680	Tms	Tms	Yes	Tms
Northrup-King	PX50	Tms	Blend & Tms	Yes	N & Tms
Northrup-King	PX545	Tms	Tms	Yes	N & Tms
Northrup-King	PX610	Tms	Tms	Yes	N & Tms
Northrup-King	PX616	Tms	Tms	Yes	N & Tms
Northrup-King	PX678	Normal	N & B & Tms	Yes	N & Tms
O's Gold	1100	Tms	Tms	Yes	Tms
O's Gold	5500	Tms	Tms	Yes	Tms
Pioneer	309B	Tms	Tms	Yes	B 50% N & 50% Tms
Pioneer	3175	Blend	None	No	
Pioneer	3196	Unsure	None	No	
Pioneer	3199	Blend	None	Yes	B 50% N & 50% Tms
Pioneer	3220	Tms	None	No	
Pioneer	3300	Blend	None	Yes	B 50% N & 50% Tms
Pioneer	3304	Tms	Tms	Yes	B 50% N & 50% Tms & Tms
Pioneer	3306	Tms	Tms	Yes	Tms
Pioneer	3307	Blend	None	Yes	Tms
Pioneer	3308	Unsure	None	Yes	B 50% N & 50% Tms
Pioneer	3334	Normal	Normal	Yes	N
Pioneer	3365	Tms	Tms	No	
Pioneer	3369A	Blend	Blend	Yes	N & B 50% N & 50% Tms
Pioneer	3376	Blend	Blend	Yes	N & B 50% N & 50% Tms
Pioneer	3387	Unsure	None	Yes	B 50% N & 50% Tms
Pioneer	3388	Blend	Blend	Yes	N & B 50% N & 50% Tms
Pioneer	3390	Blend	None	Yes	B 50% N & 50% Tms
Pioneer	3505	Unsure	Blend & Tms	Yes	B 50% N & 50% Tms & Tms
Pioneer	3516	Blend	Blend	Yes	N & B 50% N & 50% Tms
Pioneer	3519	Tms	Tms	Yes	Tms
Pioneer	3548	Unsure	None	No	
Pioneer	3567	Blend	Blend	Yes	N & B 50% N & 50% Tms
Pioneer	3570	Blend	Blend	Yes	B 50% N & 50% Tms
Pioneer	3571	Blend	Blend	Yes	N & B 50% N & 50% Tms
Pioneer	3579	Tms	Tms	Yes	N & B 50% N & 50% Tms
Pioneer	3773	Blend	Blend	Yes	N & B 50% N & 50% Tms
Pioneer	10873	Normal	None	No	
Pioneer	X1319	Normal	None	No	
Pioneer	X2066	Normal	None	No	
Pioneer	X2473	Normal	None	No	
Pioneer	X4196	Normal	None	No	
Pioneer	X5349	Unsure	None	No	
Pioneer	X5754	Normal	None	No	
Pioneer	X6666	Normal	None	No	
Pioneer	X7648A	Blend	None	Yes	B 50% N & 50% Tms
Pioneer	X7650	Blend	None	Yes	B 50% N & 50% Tms
Pioneer	X8001	Normal	None	No	
Pioneer	X8004	Normal	None	No	
Pioneer	X8758	Normal	None	No	
Pioneer	XTP	Normal	None	No	
Pocklington	P-440	Tms	Tms	Yes	Tms
Pocklington	P-442	Tms	Tms	Yes	Tms
Pocklington	P-660	Tms	Tms	Yes	Tms
Pocklington	P-715	Tms	Tms	Yes	Tms
Pocklington	P-741	Tms	Tms	Yes	Tms
Pocklington	P-780	Tms	Tms	Yes	Tms
Pocklington	P-793	Tms	Tms	Unsure	

<sup>a</sup>N = Normal; B = Blend; Tms = Texas male sterile; U = Unsure.

Table 3. — Cytoplasm Types, continued

Brand	Variety	Cytoplasm type <sup>a</sup> in 1970		Plans for this hybrid in 1971	
		U. of I. tests	Commercial sales	For sale?	Cytoplasm type <sup>a</sup>
Pocklington	P-813A	Tms	Tms	No	
Pocklington	P-818	Tms	Tms	Yes	Tms
Pocklington	P-891	Tms	Tms	No	
Pocklington	P-6341	Tms	Tms	Yes	N & Tms
Pocklington	P-7361	Tms	Tms	No	
Pocklington	P-7441	Tms	Tms	Yes	N
Pocklington	P-7661	Tms	Tms	Yes	N & Tms
Pocklington	U. S. 13	Tms	Tms	No	
Prairie Stream	SX1B	Tms	Tms	Yes	Tms
Princeton	833	Tms	Tms	Yes	Tms
Princeton	940	Tms	Tms	No	
Princeton	960	Tms	Tms	Yes	Tms
Princeton	990B	Tms	Tms	Yes	Tms
Princeton	1006	Tms	Tms	Yes	Tms
Princeton	SX-606	Tms	Tms	Yes	Tms
Princeton	SX-650	Normal	None	Yes	B
Princeton	SX-690	Tms	Tms	Yes	Tms
Princeton	SX-803	Tms	Tms	Yes	Tms
Princeton	SX-804	Tms	Tms	Yes	Tms
Princeton	SX-823	Tms	Tms	Yes	Tms
Princeton	SX-836	Blend	Blend	Yes	Tms
Princeton	SX-850	Blend	Unsure	Yes	N
Renk	RK33	Tms	Tms	Yes	Tms
Renk	RK44	Tms	Tms	Yes	Tms
Schenk	S-73A	Tms	Tms	Yes	Tms
Schenk	S-96W	Tms	Tms	Yes	Tms
Schenk	SS-66	Tms	Tms	Yes	Tms
Schenk	SS-88A	Tms	Tms	Yes	Tms
Schenk	SS-98W	Tms	Tms	Yes	Tms
Schenk	SS-X8	Tms	Tms	Yes	Tms
Schenk	SS-X101W	Normal	Normal	Yes	N
Sieben	22-XS	Tms	Tms	Yes	Tms
Sieben	25-XS	Tms	Tms	Yes	Tms
Sieben	28-XS	Tms	Tms	Yes	Tms
Sieben	29-X3	Tms	Tms	Yes	Tms
Sieben	33-X3	Tms	Tms	Yes	Tms
Sieben	51-SX	Tms	Tms	Yes	Tms
Stewart	S-382	Tms	Tms	Yes	Tms
Stewart	SX-47	Tms	Tms	Yes	Tms
Stewart	SX-58	Tms	Tms	Yes	Tms
Stewart	SX-71	Tms	Tms	Yes	Tms
Stewart	SX-77	Tms	Tms	Yes	Tms
Stull	500W	Tms	Tms	Yes	Tms
Stull	550W	Tms	Tms	Yes	Tms
Stull	620SX	Tms	Tms	Yes	Tms
Stull	627TX	Tms	Tms	Yes	Tms
Stull	707	Tms	Tms	Yes	Tms
Stull	707SX	Tms	Tms	Yes	Tms
Stull	720ASX	Tms	Tms	Yes	Tms
Stull	720SX	Tms	Tms	Yes	Tms
Stull	800W	Tms	Tms	Yes	Tms
Stull	807	Tms	Tms	Yes	Tms
Stull	807A+SX	Tms	Tms	Yes	Tms
Stull	807SX	Tms	Tms	Yes	Tms
Stull	808SX	Tms	Tms	Yes	Tms
Super-Crost	233	Tms	Tms	Yes	N & Tms
Super-Crost	593	Tms	Tms	Yes	Tms
Super-Crost	S-27	Tms	Tms	Yes	Tms
Super-Crost	S-29	Tms	Tms	Yes	Tms
Super-Crost	S-59	Tms	Tms	Yes	N & Tms

<sup>a</sup>N = Normal; B = Blend; Tms = Texas male sterile; U = Unsure.

Table 3. — Cytoplasm Types, continued

Brand	Variety	Cytoplasm type <sup>a</sup> in 1970		Plans for this hybrid in 1971	
		U. of I. tests	Commercial sales	For sale?	Cytoplasm type <sup>a</sup>
Super-Crost	S-65	Blend	None	Yes	B Tms & U
Super-Crost	S-69	Blend	Blend & Tms	Yes	B Tms & U
Super-Crost	S-75	Tms	Tms	Yes	Tms
Super-Crost	S-85	Blend	Blend & Tms	Yes	B Tms & U
Super-Crost	S-86	Tms	Tms	Yes	Tms
Super-Crost	S-2569	Blend	None	Yes	B U
Super-Crost	S-6369	Blend	None	Yes	B
Taylor-Evans	6917	Tms	Tms	No	
Taylor-Evans	Bonusmaker S	Tms	Tms	Yes	Tms
Taylor-Evans	Cashmaker	Tms	Tms	Yes	Tms
Taylor-Evans	E20YA	Tms	Tms	Yes	Tms
Todd	M25	Tms	Tms	Yes	N
Todd	M30	Tms	Tms	Yes	N
Todd	M55	Tms	Tms	Yes	N
Todd	M70	Tms	Tms	Yes	N
Todd	M90	Tms	Tms	Yes	N
Todd	M95	Tms	Unsure	Unsure	U
Tracy	206SX	Tms	Tms	Yes	N & Tms
Tracy	209SX	Tms	Tms	Yes	Tms
Tracy	307	Tms	Tms	Yes	Tms
Tri. County	DC2525	Tms	Tms	No	
Tri. County	SC2600	Tms	Tms	No	
Trisler	T-16	Tms	Tms	Yes	Tms
Trisler	T-18	Tms	Tms	Yes	Tms
Trisler	T-20	Tms	Tms	Yes	Tms
Trisler	T-324	Tms	Tms	Yes	Tms
Trisler	T-326	Tms	Tms	Yes	Tms
Trisler	T-328	Tms	Tms	Yes	Tms
Trisler	T-890	Tms	Tms	Yes	Tms
Trisler	T-906	Tms	Tms	Yes	Tms
Trisler	T-934	Normal	Normal	Yes	N
Trisler	T-940	Normal	Normal	Yes	N
Trojan	M112	Tms	None	Yes	Tms
Trojan	M114	Normal	Tms	Yes	Tms
Trojan	TX104	Normal	Tms	Yes	Tms
Trojan	TX110	Normal	Tms	Yes	Tms
Trojan	TX119	Normal	None	Yes	Tms
Trojan	TXS102	Normal	Tms	Yes	N & Tms
Trojan	TXS103	Tms	Tms	Yes	Tms
Trojan	TXS104	Normal	Normal & Tms	Yes	N & Tms
Trojan	TXS105	Tms	Tms	Yes	Tms
Trojan	TXS107	Normal	Tms	Yes	Tms
Trojan	TXS108	Normal	Tms	Yes	Tms
Trojan	TXS112	Tms	None	No	
Trojan	TXS115	Normal	Tms	Yes	Tms
Trojan	TXS119	Tms	None	Yes	N
Trojan	TXS120	Normal	None	Yes	N
Van Horn	CAP43	Normal	Normal	Yes	N
Van Horn	CAP141	Tms	Tms	Yes	Tms
Van Horn	CAP239	Tms	Blend	Yes	N & B 50% N & 50% Tms
Van Horn	Exp. 7001	Normal	None	No	
Van Horn	Exp. 7002	Normal	None	No	
Van Horn	Exp. 7003	Normal	None	No	
Victor	93-VS	Tms	Tms	Yes	Tms
Victor	95-VS	Tms	Tms	Yes	Tms
Victor	150-VS	Tms	Tms	Yes	Tms
Whisnand	851	Tms	Tms	Yes	Tms
Whisnand	851M	Tms	Tms	Yes	Tms
Whisnand	868	Tms	Tms	Yes	Tms
Whisnand	871	Tms	Tms	Yes	Tms
Whisnand	874	Tms	Tms	Yes	Tms

<sup>a</sup>N = Normal; B = Blend; Tms = Texas male sterile; U = Unsure.



Table 4. — Extreme Northern Illinois: Woodstock  
(Planted at 18,000 plants per acre in 40-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
CORNELIUS 333X.....	119	24.5	94	17800
MOEWS SM229 (2281).....	123	25.2	98	18000
PIONEER 3773.....	126	25.5	98	17900
MOEWS SM239 (3339).....	106	25.6	94	17900
CORN KING 1122.....	127	25.7	97	18000
HUGHES SLX20.....	116	25.7	96	17900
NORTHRUP-KING PX50.....	126	26.1	96	17900
HUGHES SLX18.....	114	26.1	99	17700
CORNELIUS C-365X.....	117	26.5	98	18000
MOEWS SUPR MAIZ 327.....	123	26.6	97	17800
NORTHRUP-KING PX580.....	123	26.7	97	17900
NORTHRUP-KING PX47.....	129	26.8	97	17700
PIONEER 3561.....	107	28.0	97	18000
PIONEER 3570.....	125	28.1	99	18000
PIONEER 3567.....	130	28.8	100	17900
PIONEER 3519.....	132	31.8	98	18000
AV. OF ALL ENTRIES 1968-1969..	118	26.9	97	17877
L.S.D.....	11	1.5	6	N.S.

Table 4. — Woodstock, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
ACCO.....	U333.....	105	20.9	12	18000	20
ACCO.....	U343.....	104	23.2	8	18000	30
ACCO.....	UC2300.....	110	20.8	10	17500	20
ACCO.....	UC2700.....	102	22.8	11	17800	30
ACCO.....	UC3300.....	117	22.3	13	17300	20
ACCO.....	UC3600.....	115	23.5	13	17300	20
Ainsworth.....	4773.....	102	24.7	23	18000	10
Ainsworth.....	7332.....	112	22.8	13	17700	10
Ainsworth.....	7348.....	114	25.5	8	17200	1
Cornelius.....	333X.....	109	22.2	19	18000	20
Cornelius.....	SX36A.....	126	23.6	15	18000	13
Corn King.....	1122.....	128	23.2	11	18000	10
Hughes.....	SLX20.....	116	22.7	15	17700	17
Hughes.....	SLX20A.....	111	22.2	11	17800	20
Hughes.....	SLX27.....	135	21.3	17	18000	10
Moews.....	Sup'r Maiz 220... ..	141	20.5	10	17700	12
Moews.....	Sup'r Maiz 229... ..	112	22.19	13	18000	20
Moews.....	Sup'r Maiz 327... ..	98	23.7	11	17700	20
Northrup-King.....	PX50.....	109	22.1	12	17000	20
Northrup-King.....	PX545.....	114	21.9	16	17000	20
Northrup-King.....	PX610.....	129	23.2	12	18000	10
O's Gold.....	1100.....	113	23.3	15	17800	23
Pioneer.....	3505.....	141	23.8	15	17800	10
Pioneer.....	3516.....	105	20.4	17	17800	33
Pioneer.....	3519.....	115	25.2	15	16800	8
Pioneer.....	3567.....	126	25.0	9	17500	7
Pioneer.....	3570.....	116	25.3	5	17700	12
Pioneer.....	3571.....	120	23.3	8	18000	13
Pioneer.....	3579.....	105	23.0	9	18000	25
Pioneer.....	3773.....	128	22.6	6	18000	7
Pioneer.....	X7648A.....	132	24.7	13	18000	5
Pioneer.....	X8758.....	137	26.0	4	17500	2
Super-Crost.....	233.....	108	22.0	11	16800	20
Super-Crost.....	S-27.....	119	22.8	14	18000	17
Super-Crost.....	S-2569.....	132	22.0	5	18000	1
Tracy.....	T206SX.....	117	22.5	12	17800	20
Tracy.....	T307.....	108	22.5	15	18000	27
Victor.....	95-VS.....	114	21.1	15	18000	20
Victor.....	150-VS.....	123	22.5	12	17800	20
Average of entries.....		116	23.1	12	17700	16
L. S. D.....		17	1.1	N.S.	N.S.	4

Table 5. — Northern Illinois: DeKalb  
(Planted at 18,000 plants per acre in 30-inch rows)<sup>a</sup>

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
NORTHROP-KING PX580.....	132	25.1	96	17400
FARMERS UNION SX55A.....	132	25.3	95	18000
BLANEY DOUBLE A.....	130	25.3	95	17600
CORNELIUS 373X.....	121	25.6	96	16800
HOLDEN 013.....	134	25.8	93	18000
MOEWS SM239 (3339).....	122	25.8	97	18000
NORTHROP-KING PX47.....	127	26.1	94	17800
PIONEER 3505.....	130	26.4	93	18000
BLANEY B-601.....	136	26.6	98	18000
NORTHROP-KING PX50.....	130	26.8	96	17700
PIONEER 3548 (X2193).....	147	27.0	97	17400
PIONEER 3570.....	124	27.2	99	16700
SIEBEN 51-SX.....	121	27.5	99	17100
MC ALLISTER TX303.....	120	27.6	96	18000
MIGRO M540.....	133	27.7	94	17900
ACCO UNI-CROSS 3600.....	134	28.0	96	17700
PIONEER X2066.....	133	28.1	100	17800
PIONEER 3567.....	134	29.1	95	18000
MC ALLISTER SX66.....	129	29.1	97	18000
MOEWS SUPR MAIZ 327.....	124	30.7	95	18000
PIONEER 3365.....	117	31.8	98	16600
PIONEER 3376 (X1002).....	139	31.9	96	18000
ACCO UNI-CROSS 6000.....	123	33.5	92	17400
AV. OF ALL ENTRIES 1968-1969..	122	27.6	94	17568
L.S.D.....	15	2.8	N.S.	N.S.

<sup>a</sup> Planted in 40-inch rows in 1968.

Table 5. — DeKalb, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
ACCO.....	U353.....	108	21.1	25	17600	20
ACCO.....	U363.....	87	22.1	68	18000	20
ACCO.....	UC3300.....	96	20.9	28	17300	27
ACCO.....	UC3600.....	108	21.0	27	16700	20
ACCO.....	UC5200.....	126	22.1	25	18000	22
ACCO.....	UC6000.....	130	26.4	19	17400	13
ACCO.....	UC8500.....	152	22.6	40	17600	12
Ainsworth.....	4773.....	111	22.6	30	17700	20
Ainsworth.....	7332.....	101	20.6	17	17800	20
Ainsworth.....	7348.....	107	23.7	15	17400	5
Blaney.....	6616.....	92	20.4	35	18000	30
Blaney.....	B401.....	96	19.9	37	16900	30
Blaney.....	B501A.....	96	20.7	38	17900	30
Blaney.....	B601.....	97	21.3	38	18000	25
Blaney.....	Double A.....	82	21.8	30	18000	28
Cornelius.....	373X.....	111	21.7	60	17700	20
Cornelius.....	383X.....	126	22.5	39	17900	10
Farmers Union.....	004.....	110	20.1	60	17900	20
Farmers Union.....	55A.....	111	21.8	41	18000	30
Hughes.....	SLX20A.....	97	21.1	20	17900	27
Hughes.....	SLX27.....	93	20.7	58	17100	17
Hughes.....	SLX31.....	94	22.2	33	17200	15
McAllister.....	SX-66.....	105	21.3	14	17700	20
Migro.....	M-540.....	88	22.7	54	15900	17
Migro.....	M-1010SX.....	121	21.5	35	17400	20
Moews.....	M3320.....	115	23.5	40	18000	5
Moews.....	Sup'r Maiz 220.....	129	19.4	22	17900	17
Moews.....	Sup'r Maiz 229.....	95	21.3	29	15700	28
Moews.....	Sup'r Maiz 327.....	100	22.3	34	17800	23
O's Gold.....	1100.....	118	21.3	39	16900	30
Pioneer.....	3376.....	137	24.4	23	17900	8
Pioneer.....	3505.....	120	22.1	23	16100	17
Pioneer.....	3516.....	71	20.4	73	18000	50
Pioneer.....	3548.....	125	23.3	30	17300	7
Pioneer.....	3567.....	116	21.9	20	17000	10
Pioneer.....	3571.....	107	21.7	23	18000	17
Pioneer.....	3773.....	112	22.6	26	16900	15
Pioneer.....	X2066.....	136	21.1	9	17600	5
Pioneer.....	X7650.....	125	21.4	13	16800	10
Pioneer.....	X8758.....	148	22.0	8	16900	4
Trojan.....	TXS102.....	126	22.9	30	17100	8
Trojan.....	TXS103.....	115	20.9	12	16600	13
Trojan.....	TXS104.....	125	22.7	15	16700	10
Trojan.....	TXS105.....	126	20.4	38	17800	20
Trojan.....	TXS107.....	127	22.1	15	18000	7
Trojan.....	TXS108.....	120	22.1	20	17900	13
Average of entries.....		112	22.0	31	17500	17
L. S. D.....		14	1.1	7	N.S.	4

Table 5a. — Northern Illinois: DeKalb, Increased Planting Rate  
(Planted at 24,000 plants per acre in 30-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
BLANEY B-401.....	139	21.4	94	23800
GUTWEIN 19.....	117	22.2	96	22900
HUGHES SLX20.....	150	23.7	93	23700
MOEWS 3381.....	144	23.7	92	23700
HOLDEN 001.....	159	23.9	97	24000
BLANEY B-601.....	142	24.4	92	23800
FARMERS UNION SX55A.....	147	24.5	91	24000
SUPER-CROST S-27.....	143	24.6	90	23400
SUPER-CROST S-33.....	130	24.8	96	23600
TRACY 206 SX.....	142	25.1	93	23600
BLANEY DOUBLE A.....	142	25.2	88	24000
HUGHES SLX317.....	120	25.6	91	23800
NORTHROP-KING PX50.....	151	26.0	92	24000
CORNELIUS C-36SX.....	132	26.4	87	23800
MC ALLISTER TX303.....	126	26.5	86	24000
PIONEER X2066.....	151	26.6	95	24000
BO-JAC X2E.....	135	26.6	94	23800
TODD M55.....	124	26.6	96	24000
BO-JAC X30E.....	140	26.8	90	23600
ACCO U-530.....	138	26.9	88	24000
PIONEER 3560.....	133	27.0	93	23700
MOEWS SUPR MAIZ 327.....	126	27.2	85	24000
PIONEER 3570.....	142	27.3	95	23600
SIEBEN 51-SX.....	152	27.5	95	24000
SUPER-CROST 593.....	147	28.3	92	24000
PIONEER 3561.....	134	28.4	92	23300
BO-JAC X4 (X44).....	122	28.4	94	23200
MC ALLISTER SX66.....	153	28.6	93	23900
POCKLINGTON P-442.....	147	28.7	96	23900
CORNELIUS 373X.....	139	28.7	94	23900
ACCO UNI-CROSS 5200.....	137	28.9	90	23400
PIONEER 3567.....	153	29.0	92	24000
PIONEER 3365.....	138	29.2	90	23900
POCKLINGTON P-692.....	133	30.1	96	23400
ACCO UNI-CROSS 3600.....	148	30.2	93	24000
PIONEER 3505.....	120	30.7	92	24000
POCKLINGTON P-440.....	115	34.9	90	23700
AV. OF ALL ENTRIES 1968-1969..	133	26.4	92	23678
L.S.D.....	15	2.6	N.S.	N.S.

Table 5a. — DeKalb, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
ACCO.....	UC3300.....	142	20.8	55	23700	20
ACCO.....	UC3600.....	114	22.0	53	23200	27
ACCO.....	UC4500.....	95	22.6	39	22900	21
ACCO.....	UC4500.....	91	21.6	47	23700	20
ACCO.....	UC5200.....	134	22.5	43	22800	20
ACCO.....	UC8500.....	122	22.9	58	21300	11
Ainsworth.....	4773.....	105	23.1	42	23900	20
Ainsworth.....	7332.....	131	21.0	33	23600	19
Ainsworth.....	7348.....	140	21.9	25	19400	10
Blaney.....	6616.....	97	21.0	57	23900	33
Blaney.....	B401.....	101	20.1	40	23800	21
Blaney.....	B501A.....	118	21.0	49	23700	21
Blaney.....	B601.....	108	21.6	49	23800	36
Blaney.....	Double A.....	133	21.4	55	23200	23
Bo-Jac.....	X135.....	125	20.6	68	24000	23
Cornelius.....	363X.....	130	21.0	59	20500	14
Cornelius.....	373X.....	92	21.4	83	19400	14
Cornelius.....	CSX40.....	118	21.6	39	22300	15
Cornelius.....	SX36A.....	118	21.5	37	22700	19
Farmers Union.....	004.....	105	20.7	56	24000	24
Farmers Union.....	2175.....	137	20.3	28	23800	22
Farmers Union.....	SX55A.....	136	22.1	51	24000	23
Gutwein.....	10A.....	98	20.4	42	23800	35
Gutwein.....	EX25.....	100	22.1	47	24000	20
Holden.....	Exp. 001.....	123	22.0	27	23900	15
Holden.....	Exp. 025A.....	116	21.2	42	23500	17
Holden.....	Exp. 1001.....	157	20.2	17	24000	5
Hughes.....	Exp. 17-2.....	104	21.8	40	23700	19
Hughes.....	Exp. 2901.....	127	21.6	26	23500	9
Hughes.....	SLX6.....	96	20.1	43	21800	44
Hughes.....	SLX8.....	108	20.2	40	21400	22
Hughes.....	SLX20.....	122	21.7	38	22300	22
Hughes.....	SLX20A.....	102	20.9	46	22900	30
McAllister.....	SX-66.....	132	21.5	35	22000	20
McAllister.....	SX-6861.....	122	20.1	29	22700	30
McAllister.....	SX-6948.....	138	22.9	33	18900	3
Migro.....	M-540.....	98	21.7	40	23200	20
Migro.....	M-1010SX.....	123	21.6	60	23900	24
Moews.....	M3381.....	148	20.5	23	21300	8
Moews.....	Sup'r Maiz 220.....	144	20.0	35	22500	26
Moews.....	Sup'r Maiz 229.....	130	22.2	57	24000	24
Northrup-King.....	PX50.....	121	20.7	35	22500	15
Northrup-King.....	PX545.....	117	20.3	43	20600	23
Northrup-King.....	PX610.....	125	22.2	54	21700	21
O's Gold.....	1100.....	95	21.2	54	22800	28
Pioneer.....	3365.....	119	22.2	33	24000	20
Pioneer.....	3390.....	122	22.2	35	24000	16
Pioneer.....	3516.....	114	19.3	65	22000	50
Pioneer.....	3567.....	111	21.6	45	24000	18
Pioneer.....	3571.....	128	20.6	32	23900	17

Table 5a. — DeKalb, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
Pioneer.....	3579.....	107	21.7	56	22800	30
Pioneer.....	X2066.....	126	22.1	10	23700	8
Pioneer.....	X7648A.....	140	21.4	13	22200	8
Pioneer.....	X7650.....	117	21.5	35	22700	17
Pioneer.....	X8758.....	165	21.3	16	22200	5
Pocklington.....	P-442.....	112	22.0	39	22900	13
Prairie Stream.....	Goldencross SX1B.	147	21.3	44	23300	20
Renk.....	RK33.....	98	22.1	37	23900	23
Renk.....	RK44.....	105	21.2	37	23900	25
Sieben.....	22-XS.....	110	20.1	56	24000	21
Sieben.....	25-XS.....	117	21.1	25	24000	23
Sieben.....	28-XS.....	104	21.6	44	22200	23
Sieben.....	33-XS.....	135	21.7	39	22500	19
Sieben.....	51-SX.....	122	20.5	54	24000	22
Stull.....	620SX.....	127	21.9	46	23800	20
Stull.....	627TX.....	117	20.7	30	24000	21
Stull.....	707SX.....	103	23.9	62	19700	15
Stull.....	720SX.....	112	24.0	66	22600	9
Super-Crost.....	233.....	104	19.5	30	23700	30
Super-Crost.....	593.....	109	22.2	56	23600	20
Super-Crost.....	S-27.....	139	21.4	33	23500	24
Super-Crost.....	S-29.....	109	21.7	24	23700	14
Super-Crost.....	S-59.....	118	21.1	36	22300	15
Super-Crost.....	S-65.....	118	23.5	18	23900	6
Super-Crost.....	S-2569.....	138	21.0	10	23900	12
Todd.....	M25.....	81	20.7	59	24000	42
Todd.....	M30.....	122	21.7	42	23100	27
Todd.....	M55.....	95	20.0	30	22700	20
Tracy.....	206SX.....	103	21.2	36	22100	27
Tracy.....	209SX.....	110	20.1	41	22900	24
Victor.....	93-VS.....	97	19.9	34	23500	23
Average of entries.....		118	21.4	41	22900	21
L. S. D.....		47	1.4	30	4600	11

Table 6. — West North-Central Illinois: Galesburg  
(Planted at 18,000 plants per acre in 28-inch rows)<sup>a</sup>

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
PIONEER 3505.....	143	19.2	95	18000
NORTHROP-KING PX50.....	130	19.3	92	17800
PIONEER 3365.....	135	20.6	93	18000
PIONEER 3376 (X1002).....	166	21.4	97	18000
MOEWS 5281.....	139	21.5	91	17700
HOBLOT XR-446.....	158	21.9	93	18000
ILL. ALEXHO 748 X R802A.....	157	21.9	93	17500
WHISNAND 874.....	138	22.0	90	18000
PIONEER 3304.....	143	22.4	95	18000
PIONEER 3306.....	157	22.6	94	17900
BEAR UNICORN X6949.....	154	22.8	91	16700
PIONEER X1319.....	147	22.9	97	18000
AINSWORTH 6507.....	163	23.1	90	17600
BEAR UNICORN X8236.....	151	23.2	88	18000
BEAR UNICORN X872.....	171	23.8	97	17800
MOEWS 7291.....	148	23.9	90	18000
IOWA-MISSOURI SX17.....	157	24.0	97	18000
CORN KING 1155.....	137	24.4	95	18000
MC ALLISTER SX6827.....	154	24.7	93	17500
ACCO 933.....	139	24.7	86	18000
MOEWS 7281.....	159	24.9	93	17900
MC ALLISTER SX300.....	149	24.9	96	17500
ASGROW IXL9 (55570).....	153	25.5	96	18000
AV. OF ALL ENTRIES 1968-1969..	142	22.4	92	17814
L.S.D.....	18	1.2	7	780

<sup>a</sup> Planted in 38-inch rows in 1968.



Table 6. — Galesburg, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	perct.
		bu.	perct.	perct.		
ACCO.....	TGG933.....	115	20.5	18	18000	30
ACCO.....	U383.....	114	19.6	17	18000	29
ACCO.....	UC6000.....	107	20.3	21	18000	26
ACCO.....	UC8500.....	140	20.0	14	18000	23
ACCO.....	UC8800.....	106	20.2	19	17300	30
ACCO.....	UC8900.....	90	19.6	25	16500	37
Ainsworth.....	0793.....	119	21.1	21	18000	26
Ainsworth.....	4473.....	141	20.9	7	18000	24
Ainsworth.....	6507.....	114	20.5	11	18000	27
Ainsworth.....	8478.....	145	21.6	11	17800	20
Ainsworth.....	8493.....	126	20.1	4	17100	23
Bear.....	459.....	94	19.0	20	17300	30
Bear.....	Unicorn X405.....	106	19.1	8	18000	33
Bear.....	Unicorn X405E.....	95	17.9	15	18000	73
Bear.....	Unicorn X410.....	104	18.5	18	18000	30
Bear.....	Unicorn X410E.....	132	19.1	17	18000	19
Bear.....	Unicorn X495.....	148	20.4	8	16900	10
Bear.....	Unicorn X666.....	123	19.4	11	18000	26
Bear.....	Unicorn X872.....	183	23.0	5	18000	7
Bear.....	Unicorn X6157.....	133	21.5	9	18000	14
Corn King.....	1155.....	132	21.2	4	18000	10
Forster.....	360X.....	71	17.2	14	18000	67
Forster.....	410X.....	114	20.0	18	18000	31
Forster.....	420X.....	107	17.6	10	18000	34
Forster.....	430X.....	143	20.5	8	16700	11
Forster.....	695.....	118	18.7	18	18000	30
McAllister.....	SX-6584.....	142	20.7	9	18000	17
McAllister.....	SX-6827.....	127	20.9	11	17800	27
McAllister.....	SX-6837.....	135	22.4	10	18000	23
Moews.....	M8281.....	187	24.4	12	18000	7
Moews.....	Sup'r Maiz 429... ..	94	19.4	17	16900	31
Moews.....	Sup'r Maiz 620... ..	110	19.7	19	18000	30
Moews.....	Sup'r Maiz 721... ..	122	20.5	10	16700	23
O's Gold.....	1100.....	80	18.4	24	17800	76
Pioneer.....	3300.....	114	20.4	18	18000	20
Pioneer.....	3306.....	107	19.1	14	16900	30
Pioneer.....	3334.....	157	20.7	10	18000	7
Pioneer.....	3369A.....	172	22.0	15	18000	20
Pioneer.....	3376.....	128	19.8	11	18000	23
Pioneer.....	3387.....	126	19.9	4	17300	31
Pioneer.....	3505.....	138	18.8	14	15800	20
Pioneer.....	3571.....	130	20.3	15	18000	23
Pioneer.....	X1319.....	148	20.9	19	17800	10
Pioneer.....	X7650.....	110	18.6	15	17600	30
Sieben.....	51-SX.....	122	18.2	14	16900	33
Average of entries.....		124	20.1	13	17600	25
L. S. D.....		15	0.6	N.S.	N.S.	8

Table 6a. — West North-Central Illinois: Galesburg,  
Increased Planting Rate  
(Planted at 24,000 plants per acre in 28-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
LEWIS X16.....	150	17.8	93	23800
DOCKENDORFF D12.....	158	18.8	92	24000
BLANEY B-601.....	149	18.8	91	23200
NORTHROP-KING PX50.....	156	19.1	94	23700
BLANEY DOUBLE A.....	136	19.2	92	24000
MC ALLISTER SX6832.....	153	19.6	88	23800
MC ALLISTER SX66.....	158	19.8	93	23400
PIONEER 3505.....	146	20.1	89	23500
SIEBEN 51-SX.....	146	20.1	93	24000
MOEWS 6391.....	166	20.5	92	24000
MC ALLISTER SX6841.....	156	20.6	91	23700
SUPER-CROST 593.....	151	20.6	94	23900
BEAR UNICORN X4153.....	151	20.6	90	23700
POCKLINGTON P-442.....	142	20.7	89	23000
MC ALLISTER TX-747.....	156	21.1	92	23900
DOCKENDORFF 307.....	152	21.1	93	23800
MIGRO M540.....	136	21.1	87	23400
PIONEER 3376 (X1002).....	175	21.3	96	23900
PIONEER 3306.....	155	21.4	96	23600
BO-JAC X20.....	155	21.5	94	23900
PIONEER 3206.....	142	21.6	92	23800
BO-JAC X2.....	154	21.9	92	23300
BEAR UNICORN X410.....	150	22.0	91	24000
MIGRO M44SX.....	151	22.1	95	24000
SUPER-CROST S-75.....	134	22.1	92	23200
WHISNAND 874.....	155	22.4	87	24000
POCKLINGTON P-742.....	137	22.4	88	24000
PIONEER 3300.....	159	22.5	92	23600
MC ALLISTER MX-6301.....	156	22.5	94	23800
ACCO UNI-CROSS 8500.....	166	22.6	93	24000
PIONEER X1319.....	150	22.7	95	24000
SUPER-CROST S-69.....	159	22.9	93	23600
NULL N-105.....	143	23.0	90	23700
MC ALLISTER SX6883.....	162	23.4	91	23700
MC ALLISTER SX6827.....	167	24.3	90	23700
AV. OF ALL ENTRIES 1968-1969..	148	21.5	91	23764
L.S.D.....	17	1.0	5	N.S.

Table 6a. — Galesburg, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
ACCO.....	UCB500.....	101	19.7	11	17900	33
ACCO.....	UCB800.....	154	20.2	12	21600	23
ACCO.....	UCB900.....	85	18.9	21	19200	33
Ainsworth.....	0793.....	158	20.8	15	19000	20
Ainsworth.....	4473.....	130	20.3	7	21600	20
Ainsworth.....	8478.....	156	21.6	12	20300	43
Ainsworth.....	8493.....	128	19.8	11	22700	40
Bear.....	Unicorn X405.....	107	18.6	11	21800	50
Bear.....	Unicorn X405E.....	105	17.4	20	22000	63
Bear.....	Unicorn X495.....	137	20.6	2	19500	7
Bear.....	Unicorn X672.....	113	19.8	32	21800	20
Bear.....	Unicorn X872.....	142	23.2	2	20300	20
Bear.....	Unicorn X6157.....	123	20.8	13	22700	33
Bo-Jac.....	X2E.....	105	17.9	20	22000	40
Bo-Jac.....	X15E.....	156	17.9	10	22700	37
Bo-Jac.....	X20.....	113	20.8	24	22100	28
Bo-Jac.....	X135.....	147	18.2	19	19000	47
Coop.....	S-205.....	114	19.7	8	22700	47
Coop.....	S-304.....	130	20.4	2	22300	15
Dockendorff.....	D12.....	96	17.4	13	21600	47
Dockendorff.....	D17.....	137	20.7	8	22100	22
Farmers Union.....	2360.....	110	18.4	9	21600	47
Holden.....	Exp. 1003.....	163	20.4	7	20300	25
Holden.....	Exp. 1004.....	136	18.3	9	22700	10
Holden.....	Exp. 1006.....	150	18.4	11	22300	37
Lewis.....	Exp. X69.....	124	20.0	6	22300	17
Lewis.....	X-9.....	127	17.7	7	21600	27
McAllister.....	MX-6301.....	95	19.7	8	21800	37
McAllister.....	SX-66.....	98	17.4	14	22700	37
McAllister.....	SX-6584.....	119	20.8	8	22500	12
McAllister.....	SX-6827.....	107	20.8	13	22700	30
McAllister.....	SX-6832.....	109	18.5	23	22300	47
McAllister.....	SX-6837.....	137	21.8	8	22700	23
McAllister.....	SX-6841.....	111	17.5	17	21400	33
McAllister.....	SX-6883.....	128	17.7	6	21400	57
McAllister.....	TX-747.....	79	18.7	14	20800	45
Migro.....	M-44SX.....	103	20.0	7	22100	38
Migro.....	M-540.....	92	19.0	16	22700	27
Migro.....	M-1010SX.....	88	17.7	16	21400	67
Moews.....	M6391.....	100	18.4	9	21200	47
Moews.....	Sup'r Maiz 429... ..	102	18.5	18	22500	37
Moews.....	Sup'r Maiz 520... ..	123	20.3	15	21200	30
Moews.....	Sup'r Maiz 620... ..	99	19.5	25	14000	23
Moews.....	Sup'r Maiz 721... ..	123	20.2	31	21000	23
Northrup-King.....	PX50.....	94	17.7	15	22100	37
Northrup-King.....	PX610.....	95	18.1	26	20100	30
Northrup-King.....	PX616.....	111	19.1	14	20300	30
Pioneer.....	3300.....	143	20.1	13	22100	12
Pioneer.....	3306.....	86	18.4	19	22500	33
Pioneer.....	3334.....	176	21.0	6	21600	5

Table 6a. — Galesburg, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre Yield	Grain Moisture	Lodged Plants	Plants Per Acre	Blight
		bu.	perct.	perct.		perct.
Pioneer.....	3369A.....	137	20.7	17	22700	43
Pioneer.....	3376.....	198	20.3	6	19500	18
Pioneer.....	3387.....	157	19.9	6	22700	43
Pioneer.....	3388.....	143	20.2	12	21600	33
Pioneer.....	3390.....	142	18.7	9	20500	30
Pioneer.....	3571.....	138	18.1	9	22300	33
Pioneer.....	X1319.....	159	21.2	0	20800	32
Pocklington.....	P-7441.....	118	20.8	10	22700	27
Pocklington.....	P-7661.....	132	22.9	10	21800	37
Prairie Stream.....	Goldencross SX1B.	117	18.2	15	20800	30
Renk.....	RK33.....	72	17.5	43	22700	73
Renk.....	RK44.....	94	17.9	23	22700	57
Sieben.....	25-XS.....	100	17.7	10	21600	70
Sieben.....	29-X3.....	86	18.4	23	22100	47
Sieben.....	33-X3.....	94	18.5	12	22700	40
Stewart.....	S-382.....	114	18.7	9	22700	25
Stewart.....	SX-77.....	60	19.1	10	22700	25
Super-Crost.....	593.....	66	17.4	12	22700	27
Super-Crost.....	S-59.....	90	17.3	30	19700	52
Super-Crost.....	S-65.....	163	20.5	8	21000	18
Super-Crost.....	S-69.....	93	19.0	5	20700	27
Super-Crost.....	S-6369.....	142	18.3	6	22700	10
Todd.....	M30.....	88	17.3	20	21600	70
Todd.....	M55.....	92	17.6	23	21600	57
Trojan.....	TXS102.....	122	18.7	14	22700	43
Trojan.....	TX104.....	99	18.9	6	22700	33
Trojan.....	TXS107.....	144	18.5	10	22700	20
Trojan.....	TXS108.....	105	18.8	11	22700	37
Trojan.....	TXS112.....	83	18.9	15	21200	37
Whisnand.....	874.....	102	19.3	20	22700	30
Average of entries.....		117	19.2	13	21600	34
L. S. D.....		36	0.8	16	1600	16

Table 7. — East North-Central Illinois: Elwood,  
Increased Planting Rate<sup>a</sup>  
(Planted at 24,000 plants per acre in 30-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
BO-JAC X2E.....	127	20.8	93	23500
GUTWEIN 20.....	119	20.8	94	22200
BO-JAC X22EL.....	125	21.0	92	23800
PIONEER 3567.....	125	21.3	92	23600
BLANEY B-601.....	122	21.4	94	23500
MC ALLISTER SX66.....	129	21.6	92	24000
BLANEY DOUBLE A.....	122	22.0	91	24000
MOEWS 6391.....	123	22.9	89	23900
SUPER-CROST 593.....	135	23.2	91	23400
FREY F60.....	114	23.5	84	23600
PIONEER X4192.....	135	23.7	95	23200
VAN HORN CAP 43.....	132	23.7	84	23200
SUPER-CROST S-69.....	131	23.8	91	24000
ACCO UNI-CROSS 5200.....	112	23.8	87	23700
PIONEER 3306.....	120	23.9	93	23700
PIONEER 3376 (X1002).....	138	24.0	93	24000
PIONEER 3365.....	120	24.0	90	24000
SUPER-CROST S-75.....	123	24.2	95	23200
PIONEER 3561.....	117	24.2	91	24000
PIONEER 3304.....	128	24.5	88	23700
PIONEER X1319.....	124	25.0	96	23800
MC ALLISTER MX-6301.....	129	25.3	92	24000
BEAR UNICORN X8323.....	122	25.3	89	23900
MC ALLISTER SX6883.....	114	25.6	88	24000
AINSWORTH 7387.....	113	25.6	83	23600
AV. OF ALL ENTRIES 1968-1969..	116	23.5	90	23590
L.S.D.....	18	1.1	7	N.S.

<sup>a</sup> 1968 trial conducted at Ashkum.

Table 7. — Elwood, Increased Planting Rate, continued

SUMMARY: 1970					
Brand	Variety	Total Acre	Grain	Lodged	Plants
		Yield	Moisture	Plants	Per Acre
		bu.	perct.	perct.	
ACCO.....	U363.....	94	23.0	16	24000
ACCO.....	UC4500.....	112	22.4	12	22900
ACCO.....	UC5200.....	106	22.6	15	24000
ACCO.....	UC8900.....	131	24.3	17	24000
Ainsworth.....	4473.....	117	23.7	14	22700
Ainsworth.....	4773.....	71	22.7	19	24000
Ainsworth.....	8493.....	118	23.2	11	24000
Ainsworth.....	8773.....	113	25.8	8	22700
Ainsworth.....	8795.....	120	23.4	13	24000
Bear.....	Unicorn X405E.....	129	20.7	15	24000
Bear.....	Unicorn X872.....	124	25.0	11	24000
Frey.....	F49.....	91	21.2	18	24000
Frey.....	F58.....	115	22.3	14	21600
Gutwein.....	20.....	109	21.3	10	22400
Gutwein.....	69A.....	119	21.4	15	24000
Hughes.....	SLX20.....	101	20.2	22	23100
Hughes.....	SLX31.....	102	24.0	18	23800
McAllister.....	MX-6301.....	121	24.7	12	24000
McAllister.....	SX-66.....	106	21.5	3	24000
McAllister.....	SX-6837.....	127	25.9	13	24000
Migro.....	M-1010SX.....	120	20.7	15	24000
Moews.....	Sup'r Maiz 229... ..	118	21.3	13	23100
Moews.....	Sup'r Maiz 327... ..	102	21.6	10	24000
Moews.....	Sup'r Maiz 429... ..	107	22.4	22	23800
Moews.....	Sup'r Maiz 438... ..	98	21.3	12	22900
Moews.....	Sup'r Maiz 721... ..	118	24.7	36	24000
Northrup-King.....	PX50.....	112	20.7	9	24000
Northrup-King.....	PX610.....	91	21.3	25	24000
Northrup-King.....	PX616.....	92	22.2	31	22700
O's Gold.....	1100.....	110	20.6	12	24000
Pioneer.....	3304.....	111	24.1	7	24000
Pioneer.....	3306.....	128	22.7	48	22700
Pioneer.....	3334.....	141	23.6	3	24000
Pioneer.....	3369A.....	86	24.3	36	24000
Pioneer.....	3376.....	112	23.3	22	23800
Pioneer.....	3387.....	148	23.0	3	24000
Pioneer.....	3388.....	156	23.4	1	24000
Pioneer.....	3516.....	83	19.8	17	24000
Pioneer.....	3571.....	123	21.4	6	24000
Pioneer.....	X8758.....	108	21.0	6	24000
Stewart.....	S-382.....	91	23.0	22	24000
Stewart.....	SX-77.....	94	22.9	14	18300
Super-Crost.....	S-27.....	114	21.1	17	24000
Super-Crost.....	S-65.....	122	23.6	18	24000
Super-Crost.....	S-69.....	105	23.5	12	23100
Super-Crost.....	S-2569.....	110	19.6	17	24000
Trojan.....	TXS102.....	115	21.3	6	24000
Trojan.....	TXS104.....	123	21.2	6	24000
Trojan.....	TXS107.....	92	20.8	8	24000
Trojan.....	TXS108.....	121	20.7	9	23600
Trojan.....	TX 110.....	97	21.3	8	24000
Trojan.....	TXS112.....	106	23.2	5	17400
Van Horn.....	CAP43.....	108	24.7	16	24000
Van Horn.....	CAP239.....	106	25.4	15	24000
Average of entries.....		110	22.5	14	23400
L. S. D.....		16	1.1	12	1600

Table 8. — West-Central Illinois: Augusta  
(Planted at 18,000 plants per acre in 40-inch rows)

ENTRY	TOTAL ACRE	GRAIN	ERECT	PLANTS
	YIELD	MOISTURE	PLANTS	PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
PIONEER 3505.....	123	21.3	86	18000
DITTMER D803.....	122	22.1	95	17600
DITTMER D823.....	118	22.7	93	18000
LEWIS 701.....	129	22.8	94	18000
PIONEER X4192.....	113	23.1	99	17400
PIONEER 3220.....	117	23.2	92	18000
AINSWORTH X-9.....	133	23.3	95	17900
ACCO UNI-CROSS 8500.....	120	23.5	94	18000
PIONEER X1319.....	124	23.8	97	18000
PIONEER 310.....	121	23.8	92	18000
AINSWORTH 6507.....	127	23.9	93	18000
MC ALLISTER SX6509.....	124	23.9	88	18000
AINSWORTH 4487.....	126	24.1	91	18000
PIONEER 3306.....	117	24.1	92	17700
BO-JAC X9.....	126	24.2	93	18000
MOEWS SUPR MAIZ 738.....	126	24.3	88	18000
ACCO 815.....	120	24.6	87	17900
MC ALLISTER SX6827.....	124	24.7	93	18000
PIONEER 3376 (X1002).....	133	24.8	97	18000
PIONEER 3307.....	122	25.2	95	18000
BO-JAC X7L (X77L).....	124	25.9	95	18000
MOEWS 8281.....	137	26.6	89	18000
AV. OF ALL ENTRIES 1968-1969..	121	24.1	92	17910
L.S.D.....	N.S.	1.1	5	N.S.

## SUMMARY: 1970

Brand	Variety	Total Acre Yield	Grain Moisture	Lodged Plants	Plants Per Acre	Blight
		bu.	perct.	perct.		perct.
ACCO.....	U383.....	76	21.9	20	15700	30
ACCO.....	UC6000.....	68	24.3	42	18000	45
ACCO.....	UC8800.....	99	23.2	15	17700	27
ACCO.....	UC8900.....	63	23.0	10	17700	33
Ainsworth.....	0793.....	59	24.6	5	16700	28
Ainsworth.....	4473.....	104	24.4	10	17700	22
Ainsworth.....	8478.....	96	25.0	8	15700	15
Ainsworth.....	8493.....	100	24.2	4	18000	23
Ainsworth.....	X-9.....	72	20.1	16	17800	80
Asgrow.....	ASC97.....	97	21.6	11	17700	30
Asgrow.....	IXL9.....	102	27.7	1	18000	8
Asgrow.....	RX94.....	89	23.1	6	18000	30
Bear.....	876.....	77	22.5	26	17800	40
Bear.....	Unicorn X405E.....	74	19.1	11	17700	87
Bear.....	Unicorn X410.....	91	21.1	17	17000	47
Bear.....	Unicorn X410E.....	113	22.3	11	17300	17
Bear.....	Unicorn X495.....	109	24.9	6	16700	5
Bear.....	Unicorn X666.....	87	22.7	29	17800	30
Bear.....	Unicorn X672.....	85	22.3	31	18000	33
Bear.....	Unicorn X872.....	108	26.5	8	18000	5

Table 8. — Augusta, continued

SUMMARY: 1970						
Brand	Variety	Total Acre Yield	Grain Moisture	Lodged Plants	Plants Per Acre	Blight
		bu.	perct.	perct.		perct.
Bear.....	Unicorn X6157....	103	26.1	13	17800	8
Bo-Jac.....	X1-82.....	90	24.5	11	19000	22
Bo-Jac.....	X1-83.....	105	24.5	6	17200	17
Bo-Jac.....	X3.....	70	20.8	41	17200	77
Bo-Jac.....	X7L.....	98	24.4	11	17000	25
Bo-Jac.....	X9.....	108	26.4	4	18000	33
Bo-Jac.....	X51.....	106	22.5	12	17500	8
Bo-Jac.....	X53.....	105	24.1	0	17000	5
Bo-Jac.....	X135.....	90	21.0	18	17800	42
Dittmer.....	D-803.....	80	21.7	9	16500	52
Dittmer.....	D-823.....	94	20.8	14	15500	30
Hoblit.....	XR445.....	104	23.7	5	16700	15
Hoblit.....	XR448.....	92	24.3	14	17700	28
Lewis.....	701.....	81	22.5	15	16300	33
Lewis.....	711.....	96	22.6	11	15500	30
Lewis.....	870.....	95	23.6	9	17000	23
McAllister.....	SX-6584.....	104	27.3	1	16700	7
McAllister.....	SX-6827.....	94	23.3	10	16500	28
McAllister.....	SX-6837.....	93	25.6	11	16500	23
Moews.....	M8281.....	110	28.4	7	16800	8
Moews.....	Sup'r Maiz 620...	88	22.0	20	17200	30
Moews.....	Sup'r Maiz 721...	97	24.7	14	14300	23
Moews.....	Sup'r Maiz 730...	92	22.2	8	17200	27
Northrup-King.....	FX50.....	84	19.3	15	17000	90
Northrup-King.....	FX610.....	92	20.2	17	17700	43
Northrup-King.....	FX616.....	85	21.5	11	18000	37
O's Gold.....	5500.....	97	24.6	5	15300	22
Pioneer.....	3306.....	92	21.8	13	17800	33
Pioneer.....	3307.....	114	24.2	5	18000	13
Pioneer.....	3334.....	127	26.2	10	17300	5
Pioneer.....	3369A.....	91	24.7	9	17200	18
Pioneer.....	3376.....	101	23.1	8	17700	27
Pioneer.....	3387.....	98	23.3	23	17300	30
Pioneer.....	3388.....	96	25.2	6	17700	17
Pioneer.....	3505.....	91	21.6	13	17700	30
Pioneer.....	3571.....	78	21.2	12	18000	30
Pioneer.....	X1319.....	114	24.5	36	17700	12
Trisler.....	T-16.....	71	21.1	8	17800	73
Trisler.....	T-18.....	90	20.9	11	17000	33
Trisler.....	T-324.....	80	20.4	17	17300	40
Trisler.....	T-890.....	93	20.7	3	16300	63
Trisler.....	T-906.....	83	23.0	19	17000	47
Trojan.....	TXS112.....	98	22.1	5	16800	38
Trojan.....	M114.....	96	22.3	19	17700	23
Trojan.....	TXS115.....	138	26.4	6	17500	10
Trojan.....	TXS119.....	90	23.1	4	17700	30
Trojan.....	TXS120.....	86	26.7	16	18000	8
Average of entries.....		93	23.1	12	17200	30
L. S. D.....		18	1.5	18	N.S.	14



Table 9. — Central Illinois: Stanford, Increased Planting Rate  
(Planted at 24,000 plants per acre in 30-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE		
SUMMARY 1968-1969						
	BU.	PERCT.	PERCT.			
MDEWS SUPR MAIZ 327.....	150	18.1	86	24000		
MC ALLISTER SX66.....	162	19.2	95	23900		
STEWART S-337.....	151	19.6	91	23300		
ACCO UNI-CROSS 5200.....	151	20.0	94	22800		
MDEWS SUPR MAIZ 337.....	148	20.1	95	23200		
BO-JAC X20.....	152	20.2	90	23300		
BO-JAC X30.....	144	20.2	94	23500		
PIONEER 3376 (X1002).....	174	20.4	92	23000		
VAN HORN CAP 43.....	162	20.5	82	23700		
VAN HORN CAP 358.....	152	20.5	90	23800		
HOBBLIT XR-336.....	165	20.6	98	22900		
STEWART SX-47.....	174	20.8	89	23800		
BO-JAC X5 (X55).....	161	20.8	89	23000		
WHISNAND 874.....	166	20.9	83	23000		
PIONEER 3306.....	158	21.0	95	23300		
MDEWS SUPR MAIZ 44.....	156	21.1	92	23900		
ACCO UNI-CROSS 8500.....	163	21.2	85	23700		
BO-JAC X707.....	160	21.3	91	23400		
MC ALLISTER MX-6301.....	165	21.7	97	23700		
PIONEER X4196.....	164	21.7	81	23200		
ACCO UNI-CROSS 6000.....	156	21.7	82	23700		
AINSWORTH 7387.....	145	21.8	91	23900		
PIONEER 3196 (X2786).....	157	22.4	71	23100		
CENTRAL ILLINOIS C.I. 40.....	172	22.7	89	23700		
ASGROW IXL9 (5S570).....	170	23.2	81	23600		
PIONEER X1319.....	147	23.3	97	23400		
AV. OF ALL ENTRIES 1968-1969..	154	21.1	89	23381		
L.S.D.....	23	1.1	8	N.S.		
SUMMARY: 1970						
Brand	Variety	Total Acre Yield	Grain Moisture	Lodged Plants	Plants Per Acre	Blight
		bu.	perct.	perct.		perct.
ACCO.....	UC5200.....	115	19.7	12	23800	20
ACCO.....	UC6000.....	91	22.7	62	24000	15
ACCO.....	UC8500.....	95	20.8	46	24000	13
ACCO.....	UC8900.....	89	20.5	28	24000	22
Ainsworth.....	0384.....	87	23.4	10	23600	18
Ainsworth.....	0793.....	102	24.4	60	23600	18
Ainsworth.....	4473.....	129	22.0	12	23800	13
Ainsworth.....	4473A.....	93	20.3	59	22000	20
Ainsworth.....	8478.....	133	23.7	32	23800	8
Ainsworth.....	8493.....	128	21.3	23	23500	12
Bear.....	Unicorn X405.....	92	19.7	65	23600	20
Bear.....	Unicorn X405E.....	98	19.4	33	24000	22
Bear.....	Unicorn X410.....	86	20.3	58	24000	20
Bear.....	Unicorn X495.....	171	23.0	4	23800	4
Bear.....	Unicorn X872.....	137	24.3	40	24000	1
Bear.....	Unicorn X6157.....	101	24.1	36	23100	2
Bo-Jac.....	X1-83.....	105	23.5	36	24000	8
Bo-Jac.....	X2E.....	96	18.7	40	24000	27
Bo-Jac.....	X5.....	139	23.5	37	23100	7
Bo-Jac.....	X7L.....	119	24.5	15	24000	13

Table 9. — Stanford, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	perct.
		bu.	perct.	perct.		
Bo-Jac.....	X12E.....	116	18.8	19	24000	25
Bo-Jac.....	X15.....	122	18.6	31	24000	1
Bo-Jac.....	X51.....	144	19.9	26	24000	0
Bo-Jac.....	X53.....	140	22.9	7	23600	1
Bo-Jac.....	X135.....	123	19.1	20	22700	20
Central Illinois..	C.I.40.....	72	21.6	23	23700	20
Coop.....	S-304.....	117	21.8	34	23800	1
Coop.....	T-308.....	118	23.7	34	23800	5
Farmers Union....	007.....	111	20.8	50	23300	13
Farmers Union....	2360.....	121	18.7	27	23600	20
Hoblit.....	XR445.....	134	21.2	22	21100	11
Hoblit.....	XR448.....	98	22.0	47	22900	13
Lewis.....	X-9.....	96	18.7	27	23300	23
Lewis.....	X-80.....	148	25.6	46	24000	1
McAllister.....	MX-6301.....	95	21.7	33	24000	20
McAllister.....	SX-66.....	94	17.4	16	22900	22
McAllister.....	SX-6837.....	101	24.1	31	24000	17
McAllister.....	SX-6861.....	95	18.2	25	24000	28
Moews.....	M3420.....	119	22.5	51	24000	4
Moews.....	Sup'r Maiz 44.....	94	20.9	52	24000	22
Moews.....	Sup'r Maiz 429.....	99	18.9	49	24000	20
Moews.....	Sup'r Maiz 438.....	93	20.3	43	22700	18
Moews.....	Sup'r Maiz 520.....	98	21.8	64	24000	20
Moews.....	Sup'r Maiz 721.....	93	23.0	43	24000	13
Northrup-King....	KT680.....	85	19.9	43	24000	20
Northrup-King....	PX50.....	104	18.6	16	24000	22
Northrup-King....	PX610.....	98	20.3	72	23800	20
Northrup-King....	PX616.....	78	20.2	59	22700	20
Northrup-King....	PX678.....	114	21.7	52	24000	1
O's Gold.....	5500.....	137	23.0	22	24000	17
Pioneer.....	3196.....	128	22.1	77	23300	4
Pioneer.....	3306.....	97	20.0	71	22000	22
Pioneer.....	3334.....	136	22.9	18	24000	1
Pioneer.....	3369A.....	114	23.4	53	24000	10
Pioneer.....	3376.....	154	21.3	13	24000	13
Pioneer.....	3387.....	148	21.9	25	24000	17
Pioneer.....	3390.....	78	19.9	58	22900	10
Pioneer.....	3571.....	103	19.6	25	24000	18
Pioneer.....	X1319.....	142	25.1	3	23600	2
Pioneer.....	X4196.....	124	21.6	48	24000	4
Stewart.....	SX-47.....	111	20.2	25	24000	18
Stewart.....	SX-58.....	112	21.1	27	21800	20
Stewart.....	SX-71.....	132	23.9	41	24000	8
Stewart.....	SX-77.....	97	21.1	26	22000	17
Stull.....	620SX.....	98	18.4	35	22400	27
Stull.....	707SX.....	91	21.0	56	24000	20
Stull.....	720SX.....	72	22.1	65	24000	12
Stull.....	808SX.....	97	22.8	58	24000	13
Trisler.....	T-324.....	99	18.0	50	24000	25
Trisler.....	T-326.....	87	19.4	33	24000	23
Trisler.....	T-890.....	101	18.8	27	24000	27
Trisler.....	T-906.....	80	21.9	41	24000	13
Trisler.....	T-940.....	138	23.6	37	24000	4
Trojan.....	TXS102.....	126	21.5	11	24000	5
Trojan.....	TXS107.....	135	19.5	4	24000	5
Trojan.....	TXS108.....	98	19.3	45	22400	2
Trojan.....	TXS112.....	121	20.4	19	21300	20
Trojan.....	TXS115.....	148	22.9	22	22200	2
Van Horn.....	CAP43.....	140	21.7	34	22700	1
Van Horn.....	CAP239.....	97	22.4	51	22700	18
Van Horn.....	Exp. 7001.....	118	21.5	60	24000	20
Van Horn.....	Exp. 7002.....	141	18.7	16	23100	1
Van Horn.....	Exp. 7003.....	119	21.4	16	23600	12
Whisnand.....	874.....	86	21.0	41	24000	18
Average of entries.....		112	21.3	38	23500	13
L. S. D.....		27	1.2	N.S.	N.S.	4

Table 10. — East-Central Illinois: Urbana  
(Planted at 18,000 plants per acre in 40-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
FARMERS UNION DU.....	133	22.7	92	17700
TRISLER T-18.....	121	22.7	95	18000
FREY F58.....	134	22.8	98	18000
TRISLER T-327.....	133	22.9	99	18000
PIONEER 3376 (X1002).....	162	23.0	100	18000
BO-JAC X707.....	136	23.3	96	17200
CENTRAL ILLINOIS C.I. 2304.....	146	23.4	97	17900
FREY F60.....	145	23.4	96	17800
AINSWORTH X-9.....	165	23.6	100	18000
PIONEER 3369A.....	164	23.6	98	18000
HOBLIT XR-446.....	152	23.7	98	17900
BEAR UNICORN X8236.....	148	23.7	92	18000
ACCO UNI-CROSS 8500.....	143	23.8	97	17800
MOEWS 7371.....	153	24.0	92	18000
BEAR UNICORN X6393.....	146	24.0	97	17900
WHISNAND 874.....	131	24.2	95	17800
PIONEER X4196.....	175	24.4	98	18000
PIONEER 3306.....	143	24.5	100	17900
MOEWS 7291.....	154	24.6	98	17900
ACCO UNI-CROSS 6000.....	144	24.6	96	18000
BEAR UNICORN X872.....	165	24.7	99	18000
POCKLINGTON P-741.....	143	24.7	98	18000
VAN HCRN CAP 43.....	154	24.8	98	17900
POCKLINGTON P-715.....	143	25.0	98	17600
BEAR 876.....	140	25.0	97	17900
PIONEER 3196 (X2786).....	163	25.1	97	17600
MOEWS 7281.....	139	25.1	99	18000
POCKLINGTON P-818.....	152	25.2	97	17700
ASGROW IXL9 (5S570).....	158	26.0	98	18000
TRISLER T-940.....	138	26.5	99	18000
POCKLINGTON P-892.....	137	26.5	95	17900
AV. OF ALL ENTRIES 1968-1969..	140	24.2	97	17930
L.S.D.....	16	1.5	6	400

Table 10. — Urbana, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
ACCO.....	UC6000.....	105	27.5	45	17700	20
ACCO.....	UC8500.....	113	24.3	39	17800	20
ACCO.....	UC8800.....	128	26.5	33	18000	17
ACCO.....	UC8900.....	109	26.3	35	18000	22
Ainsworth.....	0344.....	101	25.5	36	18000	27
Ainsworth.....	0354.....	85	26.9	35	18000	23
Ainsworth.....	0793.....	129	27.3	54	18000	17
Ainsworth.....	4473.....	138	27.3	5	17700	17
Ainsworth.....	4473A.....	104	27.0	25	17800	20
Ainsworth.....	8478.....	137	26.8	22	17800	11
Ainsworth.....	X-9.....	109	25.3	27	17800	30
Bear.....	Unicorn X405E.....	115	23.0	11	18000	34
Bear.....	Unicorn X410.....	118	25.3	51	18000	20
Bear.....	Unicorn X410E.....	135	24.5	3	18000	7
Bear.....	Unicorn X495.....	136	29.3	8	18000	5
Bear.....	Unicorn X666.....	124	26.0	66	18000	21
Bear.....	Unicorn X845.....	115	25.7	42	18000	19
Bear.....	Unicorn X872.....	145	29.2	10	18000	4
Bear.....	Unicorn X6157.....	132	28.2	5	18000	8
Central Illinois.....	C.I. 2304.....	128	24.2	15	18000	27
Farmers Union.....	2366.....	115	25.7	33	17800	23
Frey.....	F58.....	98	25.7	57	17800	27
Frey.....	F60.....	135	29.5	13	17700	12
Hoblitt.....	XR446.....	102	25.8	56	18000	23
Hoblitt.....	XR448.....	130	26.8	55	17800	20
McNair.....	Exp. 7090.....	118	27.5	69	17800	19
Moews.....	M7291.....	106	27.7	62	18000	20
Moews.....	M7730.....	99	28.0	40	18000	30
Moews.....	M8283.....	107	24.2	57	18000	20
Moews.....	Sup'r Maiz 620.....	107	25.9	50	17800	20
Moews.....	Sup'r Maiz 730.....	113	25.4	55	18000	20
Northrup-King.....	KT680.....	107	26.1	21	17700	20
Northrup-King.....	PX616.....	114	23.4	60	17800	20
Northrup-King.....	PX678.....	118	26.6	13	17800	7
O's Gold.....	5500.....	126	28.6	9	18000	20
Pioneer.....	3196.....	130	28.7	19	18000	4
Pioneer.....	3334.....	153	29.1	1	18000	5
Pioneer.....	3369A.....	131	27.6	33	18000	10
Pioneer.....	3376.....	131	27.8	21	18000	17
Pioneer.....	3387.....	139	25.9	1	18000	17
Pioneer.....	3388.....	131	25.3	5	18000	20
Pioneer.....	X1319.....	146	27.9	6	18000	8
Pioneer.....	X4196.....	136	28.3	12	18000	5
Pioneer.....	X6656.....	130	29.5	4	17800	5
Pioneer.....	X8004.....	147	30.0	3	18000	3
Pocklington.....	P-440.....	107	24.9	29	18000	30
Pocklington.....	P-715.....	100	26.6	25	18000	19
Pocklington.....	P-741.....	84	28.2	54	18000	17
Pocklington.....	P-818.....	99	26.5	47	18000	20
Pocklington.....	P-7441.....	114	26.4	34	18000	20
Schenk.....	SS-X8.....	123	26.7	39	18000	13
Trisler.....	T-16.....	94	24.0	20	18000	27
Trisler.....	T-18.....	106	24.0	52	17500	27
Trisler.....	T-20.....	119	24.9	16	18000	24
Trisler.....	T-324.....	124	23.4	20	17800	21
Trisler.....	T-328.....	120	23.0	38	18000	24
Trisler.....	T-890.....	122	22.5	35	17500	33
Trisler.....	T-905.....	118	25.9	49	18000	23
Trisler.....	T-934.....	144	31.0	5	17000	3
Trisler.....	T-940.....	130	32.1	1	18000	6
Van Horn.....	CAP43.....	135	29.8	13	17700	7
Van Horn.....	CAP141.....	119	25.2	6	17800	20
Van Horn.....	CAP239.....	135	26.6	39	17800	20
Average of entries.....		120	26.6	29	17900	18
L. S. D.....		21	1.4	19	N.S.	6

Table 10a. — East-Central Illinois: Urbana,  
Increased Planting Rate  
(Planted at 24,000 plants per acre in 30-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
TODD M55.....	119	19.7	99	23600
BO-JAC X2E.....	137	20.3	97	23800
LEWIS X16.....	155	20.9	98	23900
MC ALLISTER SX66.....	142	21.3	98	23500
MIGRO M540.....	143	21.6	97	23900
GUTWEIN 167.....	146	21.8	96	23900
PRINCETON SX-606.....	155	21.9	99	24000
ACCO UNI-CROSS 5200.....	150	21.9	97	23300
VAN HORN CAP 368.....	144	22.3	92	23800
BEAR 671.....	124	22.5	92	24000
SUPER-CROST S-69.....	148	22.8	99	23900
MOEWS 7371.....	133	22.9	70	23200
PIONEER X4196.....	136	23.0	93	23900
PIONEER X4192.....	144	23.1	99	24000
SUPER-CROST 593.....	142	23.1	97	24000
SCHENK SS-X5.....	144	23.2	97	24000
SCHENK SS-77A.....	124	23.3	92	24000
WHISNAND 874.....	144	23.5	90	23600
PIONEER 3369A.....	173	23.6	97	24000
PRINCETON SX-690.....	150	23.7	99	23700
PIONEER 3306.....	135	23.7	100	23900
BEAR UNICORN X8333.....	151	23.8	87	24000
VAN HORN CAP 43.....	140	23.8	93	24000
PRINCETON SX-836.....	154	23.9	95	24000
FREY FX55.....	133	23.9	94	24000
BO-JAC X5 (X55).....	162	24.2	97	23600
PIONEER 3376 (X1002).....	153	24.2	98	24000
POCKLINGTON P-715.....	147	24.2	91	23300
AINSWORTH 7387.....	146	24.3	97	23800
POCKLINGTON P-742.....	128	24.3	93	24000
SUPER-CROST S-75.....	157	24.6	99	23900
BEAR UNICORN X8236.....	137	24.6	88	22900
MIGRO M44SX.....	135	24.7	98	23500
MC ALLISTER SX6584.....	150	25.6	99	23600
WHISNAND 871.....	148	25.6	94	24000
GUTWEIN 87A.....	160	25.7	98	23400
HOLDEN 033.....	146	25.7	99	23800
MC ALLISTER SX6883.....	142	25.7	97	23500
POCKLINGTON P-741.....	137	25.7	97	23800
POCKLINGTON P-892.....	135	25.7	86	24000
BO-JAC X7L (X77L).....	169	26.9	96	24000
PIONEER X1319.....	136	27.5	100	24000
AV. OF ALL ENTRIES 1968-1969..	142	23.4	97	23706
L.S.D.....	20	1.5	6	1000

Table 10a. — Urbana, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre Yield	Grain Moisture	Lodged Plants	Plants Per Acre	Blight
		bu.	perct.	perct.		perct.
ACCO.....	UC5200.....	97	23.6	67	23600	23
ACCO.....	UC8500.....	122	23.4	40	23800	18
ACCO.....	UC8800.....	101	25.6	61	24000	15
ACCO.....	UC8900.....	127	26.4	64	22900	28
Ainsworth.....	0384.....	132	27.1	68	24000	23
Ainsworth.....	0793.....	119	26.1	68	23800	18
Ainsworth.....	4473.....	127	26.5	9	23111	20
Ainsworth.....	4473A.....	114	24.8	25	23800	22
Ainsworth.....	8478.....	133	27.2	34	23800	5
Bear.....	Unicorn X405.....	124	24.5	77	19200	22
Bear.....	Unicorn X405E.....	101	22.5	54	24000	30
Bear.....	Unicon X410.....	89	23.4	61	24000	23
Bear.....	Unicorn X495.....	120	28.3	3	23800	5
Bear.....	Unicorn X672.....	99	26.6	78	24000	17
Bear.....	Unicorn X872.....	138	27.9	39	24000	7
Bear.....	Unicorn X6157.....	116	28.1	8	23800	5
Bo-Jac.....	X5.....	136	26.4	42	23600	13
Bo-Jac.....	X7L.....	127	28.4	13	24000	10
Bo-Jac.....	X12E.....	136	21.3	36	23800	32
Bo-Jac.....	X15.....	158	21.7	19	24000	7
Central Illinois...	C.I.47.....	139	29.2	20	22400	12
Coop.....	S-304.....	142	28.7	2	23600	5
Coop.....	S-308.....	139	29.5	10	23100	8
Farmers Union.....	2366.....	106	25.0	29	24000	20
Frey.....	FX55.....	142	24.5	36	24000	20
Frey.....	FX80.....	111	26.7	42	23800	20
Gutwein.....	20.....	125	21.8	51	23800	33
Gutwein.....	69A.....	130	22.1	49	23800	23
Gutwein.....	87A.....	123	26.9	18	23600	17
Hoblit.....	XRA45.....	141	25.4	19	23800	13
Holden.....	Exp. 1003.....	148	25.4	12	24000	5
Holden.....	Exp. 1004.....	142	23.6	31	23800	5
Holden.....	Exp. 1005.....	126	25.2	33	24000	20
Lewis.....	X-9.....	115	21.6	88	23800	30
Lewis.....	X-16.....	135	20.6	20	24000	43
Lewis.....	X-78.....	119	28.0	16	23800	20
Lewis.....	X-80.....	143	31.1	26	24000	7
McAllister.....	SX-66.....	132	22.7	11	22900	25
McAllister.....	SX-6584.....	141	29.4	3	24000	5
McAllister.....	SX-6837.....	123	28.5	19	24000	12
McNair.....	Exp. 7090.....	99	25.6	72	23600	28
Migro.....	M-44SX.....	117	24.6	66	23300	20
Migro.....	M-540.....	98	22.7	42	24000	23
Moews.....	M6391.....	112	22.8	80	23800	30
Moews.....	Sup'r Maiz 429.....	119	23.3	74	23600	20
Moews.....	Sup'r Maiz 520.....	115	24.6	71	24000	18
Moews.....	Sup'r Maiz 620.....	95	25.3	46	23800	18
Moews.....	Sup'r Maiz 721.....	93	26.4	82	23600	17
Northrup-King.....	KT680.....	96	23.9	25	24000	23
Northrup-King.....	FX616.....	111	23.2	67	24000	15

Table 10a. — Urbana, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre Yield	Grain Moisture	Lodged Plants	Plants Per Acre	Blight
		bu.	perct.	perct.		perct.
Northrup-King.....	PX678.....	82	27.4	20	23800	5
O's Gold.....	5500.....	133	28.4	18	23600	13
Pioneer.....	3300.....	98	25.5	61	24000	15
Pioneer.....	3306.....	101	22.9	59	24000	28
Pioneer.....	3334.....	146	27.7	3	23800	5
Pioneer.....	3369A.....	118	26.4	38	24000	10
Pioneer.....	3376.....	102	25.2	29	23800	12
Pioneer.....	3387.....	144	25.2	11	24000	17
Pioneer.....	3388.....	139	24.9	10	23800	12
Pioneer.....	3390.....	109	22.7	60	24000	17
Pioneer.....	X6666.....	144	27.8	15	23800	5
Pioneer.....	X8004.....	163	27.4	3	23800	5
Pocklington.....	P-715.....	94	25.6	56	23600	27
Pocklington.....	P-818.....	87	25.6	28	23800	23
Pocklington.....	P-7441.....	120	26.3	44	23600	20
Prairie Stream.....	Goldencross SX1B.	127	21.9	64	24000	30
Princeton.....	SX-66.....	103	23.2	59	23800	25
Princeton.....	SX-650.....	141	24.8	20	23600	4
Princeton.....	SX-690.....	118	24.7	50	23800	20
Princeton.....	SX-803.....	112	25.0	30	23800	20
Princeton.....	SX-823.....	105	24.6	26	24000	20
Princeton.....	SX-836.....	105	26.3	54	23800	20
Princeton.....	SX-850.....	115	27.3	43	23800	8
Schenk.....	SS-66.....	105	23.9	75	23800	23
Schenk.....	SS-88A.....	102	26.0	50	24000	18
Schenk.....	SS-X8.....	99	26.4	71	24000	15
Stewart.....	SX-71.....	122	26.5	42	24000	7
Stewart.....	SX-77.....	110	24.4	41	23100	20
Super-Crost.....	S-65.....	135	25.1	9	24000	7
Super-Crost.....	S-69.....	117	24.7	31	24000	27
Super-Crost.....	S-75.....	101	24.7	57	24000	20
Super-Crost.....	S-85.....	135	28.9	13	22900	7
Todd.....	M55.....	94	22.1	41	24000	47
Todd.....	M70.....	111	25.0	46	23600	20
Todd.....	M90.....	120	25.9	59	24000	15
Todd.....	M95.....	135	22.6	70	23600	22
Trisler.....	T-324.....	109	21.9	33	23800	20
Trisler.....	T-326.....	97	23.1	35	23600	23
Trisler.....	T-890.....	129	22.8	29	22300	30
Trisler.....	T-906.....	112	24.6	48	24000	22
Trisler.....	T-940.....	124	29.8	24	23600	5
Trojan.....	M112.....	112	23.5	45	23600	27
Trojan.....	M114.....	95	23.7	28	23600	23
Trojan.....	TX110.....	123	23.5	19	24000	8
Trojan.....	TXS112.....	112	23.5	45	23600	27
Trojan.....	TXS115.....	127	29.7	11	24000	5
Van Horn.....	CAP239.....	123	25.4	46	23100	20
Van Horn.....	Exp. 7001.....	107	27.1	45	23600	20
Van Horn.....	Exp. 7002.....	127	25.3	14	23300	5
Van Horn.....	Exp. 7003.....	121	24.6	69	23600	20
Whisnand.....	868.....	104	24.1	71	23800	20
Whisnand.....	874.....	116	24.8	75	23800	13
Average of entries.....		120	25.3	38	23600	17
L. S. D.....		29	1.4	22	N.S.	8

Table 11. — West South-Central Illinois: Greenfield  
(Planted at 18,000 plants per acre in 30-inch rows)<sup>a</sup>

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
VAN HORN CAP 141.....	135	17.0	82	18000
AINSWORTH X-9.....	134	17.5	74	18000
PIONEER 3376 (X1002).....	162	17.6	87	18000
PIONEER 3306.....	151	17.6	82	18000
VAN HORN CAP 358.....	139	18.0	88	18000
PIONEER X4196.....	138	18.3	75	18000
AINSWORTH 6507.....	150	18.5	86	18000
PIONEER 3369A.....	133	18.5	80	15900
BEAR UNICORN X8333.....	144	19.2	85	18000
LEWIS 824.....	121	19.4	82	18000
PIONEER 3300.....	140	19.5	89	17400
WHISNAND 851.....	136	19.7	80	17400
POCKLINGTON P-892.....	135	20.5	76	17900
AV. OF ALL ENTRIES 1968-1969..	133	18.6	82	17734
L.S.D.....	17	1.0	14	1300

<sup>a</sup> Planted in 40-inch rows in 1968.



Table 11. — Greenfield, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	perct.
		bu.	perct.	perct.		
ACCO.....	UC6000.....	94	27.3	28	18000	17
ACCO.....	UC8800.....	90	25.7	14	18000	18
ACCO.....	UC8900.....	82	27.3	19	18000	33
Ainsworth.....	0344.....	68	25.9	36	18000	33
Ainsworth.....	0354.....	58	28.4	32	18000	20
Ainsworth.....	0384.....	89	28.1	21	18000	23
Ainsworth.....	0793.....	94	27.2	25	18000	20
Ainsworth.....	8478.....	130	27.3	7	18000	10
Ainsworth.....	8493.....	115	28.3	6	18000	17
Bear.....	459.....	101	27.3	36	18000	20
Bear.....	Unicorn X405E....	100	23.7	10	18000	45
Bear.....	Unicorn X410.....	97	26.9	15	18000	30
Bear.....	Unicorn X495.....	110	30.9	0	18000	5
Bear.....	Unicorn X672.....	78	27.5	31	18000	20
Bear.....	Unicorn X872.....	122	29.5	6	18000	5
Bear.....	Unicorn X8333....	107	26.4	12	18000	20
Bo-Jac.....	X1A.....	95	27.3	25	18000	20
Hoblit.....	XR445.....	125	27.9	6	18000	17
Hoblit.....	XR448.....	110	27.3	32	18000	17
Lewis.....	870.....	87	28.4	12	18000	20
Moews.....	M8283.....	84	25.5	63	18000	20
Moews.....	Sup'r Maiz 429...	117	25.9	10	18000	23
Moews.....	Sup'r Maiz 620...	90	26.3	26	18000	23
Moews.....	Sup'r Maiz 721...	98	27.4	28	18000	20
O's Gold.....	5500.....	99	28.5	11	18000	20
Pioneer.....	3199.....	103	27.8	21	18000	10
Pioneer.....	3220.....	96	25.1	46	18000	23
Pioneer.....	3300.....	32	27.4	54	18000	20
Pioneer.....	3306.....	100	24.8	27	18000	20
Pioneer.....	3308.....	124	28.1	13	16900	8
Pioneer.....	3334.....	127	30.0	6	18000	10
Pioneer.....	3369A.....	122	28.2	15	18000	10
Pioneer.....	3376.....	125	27.6	10	18000	13
Pioneer.....	3388.....	118	27.7	6	18000	20
Pioneer.....	X5349.....	135	30.9	14	18000	7
Pocklington.....	P-660.....	112	25.7	15	18000	20
Pocklington.....	P-891.....	81	25.3	46	18000	30
Pocklington.....	P-6431.....	81	27.9	16	18000	20
Pocklington.....	P-7441.....	81	28.2	33	18000	23
Pocklington.....	P-7661.....	101	31.3	7	18000	17
Whisnand.....	851.....	84	28.0	19	18000	23
Average of entries.....		101	27.4	21	18000	20
L. S. D.....		21	1.0	11	N.S.	5

Table 11a. — West South-Central Illinois: Greenfield,  
Increased Planting Rate  
(Planted at 24,000 plants per acre in 30-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
BEAR 671.....	133	17.0	82	23800
PIONEER 3376 (X1002).....	145	17.2	84	24000
BEAR UNICORN X4686.....	140	17.4	74	24000
VAN HORN CAP 43.....	149	17.5	68	23500
POCKLINGTON P-442.....	120	17.5	76	23100
MOEWS 7372.....	125	17.7	72	24000
BO-JAC X20.....	146	17.8	84	24000
BO-JAC X5 (X55).....	140	17.9	74	23600
WHISNAND 874.....	122	18.4	72	24000
PIONEER 3369A.....	151	18.6	87	24000
PIONEER 3300.....	132	19.1	79	24000
PIONEER 310.....	120	19.1	76	24000
POCKLINGTON P-741.....	130	19.9	81	22100
AV. OF ALL ENTRIES 1968-1969..	132	18.7	77	23640
L.S.D.....	15	N.S.	14	1800

Table 11a. — Greenfield, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre Yield	Grain Moisture	Lodged Plants	Plants Per Acre	Blight
		bu.	perct.	perct.		perct.
ACCO.....	TGG956.....	82	27.3	10	23800	20
ACCO.....	UC8500.....	96	25.5	25	23600	20
ACCO.....	UC8900.....	74	27.8	20	24000	38
Bear.....	Unicorn X405E....	99	24.0	21	24000	45
Bear.....	Unicorn X410.....	84	26.1	24	24000	27
Bear.....	Unicorn X495.....	113	30.5	1	24000	8
Bear.....	Unicorn X872.....	132	30.6	10	24000	8
Bear.....	Unicorn X4686....	93	26.1	19	24000	27
Bo-Jac.....	X5.....	125	28.2	10	24000	13
Bo-Jac.....	X20.....	110	27.5	15	24000	20
Lewis.....	X-68B.....	101	27.5	16	24000	22
Lewis.....	X-80.....	123	30.7	11	24000	10
Lewis.....	711.....	97	27.7	15	23600	23
Moews.....	M7730.....	74	27.9	18	24000	45
Moews.....	Sup'r Maiz 429....	110	24.8	17	24000	27
Moews.....	Sup'r Maiz 721....	115	28.2	22	24000	20
Northrup-King.....	KT680.....	92	25.5	23	23600	27
Northrup-King.....	PX616.....	82	24.7	22	23100	27
Northrup-King.....	PX678.....	99	27.2	8	24000	13
O's Gold.....	5500.....	94	28.8	20	24000	23
Pioneer.....	3199.....	99	28.0	21	24000	15
Pioneer.....	3300.....	91	27.0	20	24000	17
Pioneer.....	3306.....	90	25.1	34	24000	17
Pioneer.....	3308.....	99	27.7	15	24000	13
Pioneer.....	3334.....	136	30.1	5	24000	10
Pioneer.....	3369A.....	131	26.4	23	24000	20
Pioneer.....	3376.....	107	28.3	9	23300	20
Pioneer.....	3387.....	130	25.7	10	24000	20
Pioneer.....	3388.....	123	25.7	7	24000	12
Pioneer.....	X5349.....	125	31.6	15	24000	17
Pocklington.....	P-793.....	81	27.0	21	24000	27
Pocklington.....	P-813A.....	79	26.8	35	24000	20
Pocklington.....	P-6341.....	85	27.3	10	24000	23
Pocklington.....	P-7441.....	96	29.2	23	24000	20
Schenk.....	SS-88A.....	82	28.0	35	24000	23
Schenk.....	SS-X8.....	105	28.9	11	24000	20
Stull.....	707.....	91	27.5	12	24000	23
Stull.....	720SX.....	79	27.4	21	24000	20
Stull.....	808SX.....	90	28.1	22	24000	20
Super-Crost.....	S-65.....	125	26.4	11	22900	10
Super-Crost.....	S-69.....	114	26.1	10	24000	23
Super-Crost.....	S-75.....	88	26.7	16	24000	23
Super-Crost.....	S-85.....	111	29.2	11	24000	20
Super-Crost.....	S-6369.....	122	25.2	19	23300	10
Van Horn.....	CAP43.....	129	29.5	14	23300	13
Van Horn.....	CAP239.....	99	26.9	23	23300	23
Van Horn.....	Exp. 7001.....	87	28.3	12	24000	23
Van Horn.....	Exp. 7002.....	122	25.0	10	23800	10
Van Horn.....	Exp. 7003.....	106	27.5	19	23600	20
Average of entries.....		102	27.4	17	23900	20
L. S. D.....		23	1.5	12	1500	7

Table 12. — Southern Illinois: Brownstown  
(Planted at 18,000 plants per acre in 40-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
PIONEER 3306.....	106	22.1	79	17800
VAN HORN CAP 378.....	103	22.2	78	18000
AINSWORTH 6507.....	127	22.6	82	18000
PIONEER 3376 (X1002).....	121	22.6	84	18000
PIONEER 8001 (X8001).....	126	23.0	82	18000
BO-JAC X1A.....	119	23.0	84	18000
PIONEER 3369A.....	119	23.0	76	18000
PIONEER 3304.....	114	23.5	85	17800
BEAR UNICORN X6393.....	105	23.5	81	18000
PIONEER 3300.....	124	23.6	80	18000
WHISNAND 851.....	108	23.6	86	18000
PIONEER 310.....	100	23.6	74	18000
BEAR 876.....	97	23.6	70	18000
MOEWS 7691W.....	110	24.1	63	18000
BO-JAC X7L (X77L).....	129	24.2	90	18000
POCKLINGTON P-892.....	104	24.4	69	17900
BO-JAC X7 (X77).....	117	24.5	81	17700
AV. OF ALL ENTRIES 1968-1969..	108	23.3	78	17817
L.S.D.....	12	1.2	15	N.S.

Table 12. — Brownstown, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
ACCO.....	TGG956.....	24	25.7	1	18000	13
ACCO.....	UC8500.....	52	22.8	2	18000	13
ACCO.....	UC8900.....	43	26.4	5	18000	17
Ainsworth.....	0793.....	34	26.0	2	18000	10
Ainsworth.....	6507.....	52	24.1	2	17300	20
Ainsworth.....	8478.....	67	23.1	1	18000	5
Bear.....	Unicorn X872.....	38	26.4	0	18000	3
Bo-Jac.....	X1-83.....	79	22.0	4	18000	7
Bo-Jac.....	X1A.....	30	24.2	0	18000	13
Bo-Jac.....	X7.....	55	26.2	1	18000	13
Bo-Jac.....	X7L.....	63	25.5	1	17700	7
Bo-Jac.....	X9.....	20	23.9	0	18000	7
Bo-Jac.....	X51.....	65	20.6	2	18000	5
Bo-Jac.....	X53.....	59	22.3	2	18000	2
Hoblit.....	XR446.....	37	22.3	1	18000	23
Migro.....	M-40SX.....	37	25.1	3	18000	17
Moews.....	M3359W*.....	47	25.2	1	18000	5
Moews.....	Sup'r Maiz 429.....	61	21.3	1	18000	17
Moews.....	Sup'r Maiz 620.....	52	24.8	4	17300	17
Moews.....	Sup'r Maiz 721.....	53	24.5	3	18000	8
Moews.....	Sup'r Maiz 730.....	27	25.3	1	18000	10
O's Gold.....	5500.....	54	26.0	4	18000	10
Pioneer.....	3199.....	39	27.0	5	18000	7
Pioneer.....	3300.....	34	25.4	4	17700	10
Pioneer.....	3306.....	56	21.4	1	18000	33
Pioneer.....	3308.....	53	23.6	2	18000	7
Pioneer.....	3334.....	49	25.8	0	15800	2
Pioneer.....	3369A.....	52	23.0	4	18000	8
Pioneer.....	3376.....	47	21.6	2	18000	12
Pioneer.....	3387.....	76	22.2	2	18000	10
Pioneer.....	3388.....	41	24.5	0	18000	7
Pioneer.....	X8001.....	50	24.7	3	18000	7
Pocklington.....	P-780.....	46	23.3	2	18000	15
Pocklington.....	P-7441.....	33	24.9	9	18000	10
Stull.....	720SX.....	37	25.0	2	18000	8
Stull.....	720ASX.....	40	27.5	2	18000	10
Stull.....	807SX.....	42	23.0	5	17700	8
Stull.....	808SX.....	65	25.2	3	18000	10
Tri. County.....	DC2525.....	48	22.4	2	18000	17
Whisnand.....	868.....	57	21.9	2	18000	13
Average of entries.....		48	24.1	2	17900	11
L. S. D.....		20	1.1	N.S.	N.S.	4

\* Denotes white hybrid

Table 12a. — Southern Illinois: Brownstown,  
Increased Planting Rate  
(Planting at 22,000 plants per acre in 30-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
PIONEER 3376 (X1C02).....	129	21.7	86	22000
TAYLOR-EVANS CASHMAKER.....	110	22.2	77	22000
MOEWS SUPR MAIZ 44.....	109	22.4	76	22000
PIONEER 3369A.....	133	22.5	75	22000
TAYLOR-EVANS TE BONUSMAKER S.....	118	22.5	69	21900
WHISNAND 851M.....	115	22.5	74	21800
VAN HORN CAP 540.....	107	22.5	70	22000
BEAR UNICORN X4153.....	104	22.7	66	22000
MOEWS 6378.....	131	23.1	79	21400
PIONEER 3306.....	124	23.1	84	22000
BEAR UNICORN X6706.....	120	23.2	70	21400
BO-JAC X5 (X55).....	113	23.2	68	22000
PIONEER 3304.....	124	23.3	86	22000
PIONEER 8001 (X8001).....	130	23.4	69	22000
WHISNAND 871.....	123	23.4	60	22000
PIONEER 310.....	107	23.7	63	21400
BO-JAC X7L (X77L).....	129	24.2	76	22000
PIONEER X1319.....	133	25.0	92	22000
AV. OF ALL ENTRIES 1968-1969..	116	23.4	74	21900
L.S.D.....	16	1.1	13	N.S.

Table 12a. — Brownstown, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
ACCO.....	UC8500.....	53	22.3	7	22000	13
ACCO.....	UC8900.....	47	24.4	4	22000	13
Bear.....	Unicorn X872.....	56	23.8	2	22000	4
Bo-Jac.....	X1-83.....	57	22.8	2	20900	8
Bo-Jac.....	X7L.....	57	23.6	2	22000	10
Bo-Jac.....	X51.....	47	21.2	1	22000	7
Bo-Jac.....	X53.....	34	21.3	1	22000	5
Bo-Jac.....	X70.....	40	22.7	0	21400	10
Bo-Jac.....	X97.....	59	22.8	1	22000	17
Hoblit.....	XR448.....	64	23.9	4	22000	10
Holden.....	Exp. 035.....	61	23.1	2	22000	10
Holden.....	Exp. 1005.....	37	23.2	5	21400	7
Moews.....	M6378.....	55	21.5	0	22000	13
Moews.....	Sup'r Maiz 429.....	43	20.0	3	22000	17
Moews.....	Sup'r Maiz 520.....	32	22.3	0	22000	17
Moews.....	Sup'r Maiz 721.....	63	24.1	6	21600	10
Northrup-King.....	KT680.....	49	23.2	1	22000	10
Northrup-King.....	PX616.....	49	22.2	3	22000	13
Northrup-King.....	PX678.....	28	22.0	1	22000	5
O's Gold.....	5500.....	44	23.9	3	21600	10
Pioneer.....	3175.....	70	23.7	5	20600	8
Pioneer.....	3304.....	44	21.8	5	22000	8
Pioneer.....	3306.....	40	20.8	1	22000	27
Pioneer.....	3308.....	58	23.5	0	20100	8
Pioneer.....	3334.....	54	24.6	4	21600	5
Pioneer.....	3369A.....	54	22.3	8	22000	7
Pioneer.....	3376.....	71	21.4	2	21600	13
Pioneer.....	3388.....	60	20.6	0	22000	17
Pioneer.....	X1319.....	47	24.3	2	22000	4
Pioneer.....	X8001.....	19	23.7	0	22000	5
Pocklington.....	P-7661.....	53	23.9	2	22000	10
Princeton.....	SX-650.....	45	22.8	0	20800	5
Princeton.....	SX-823.....	51	21.3	0	22000	17
Princeton.....	SX-836.....	56	23.6	6	21600	17
Princeton.....	SX-850.....	63	22.0	2	22000	7
Taylor-Evans.....	6917.....	40	24.4	7	22000	20
Taylor-Evans.....	Bounsmaker S.....	33	21.0	0	22000	13
Taylor-Evans.....	Cashmaker.....	33	20.0	0	22000	13
Taylor-Evans.....	E-20-YA.....	48	21.3	5	22000	10
Todd.....	M70.....	61	21.3	5	22000	15
Todd.....	M90.....	42	20.5	4	21200	10
Todd.....	M95.....	47	21.2	2	21800	27
Tri. County.....	SC2600.....	33	20.0	0	21400	17
Trojan.....	TXS112.....	84	21.3	0	18500	20
Trojan.....	TXS115.....	52	25.4	3	21600	7
Trojan.....	TX119.....	72	23.0	6	18500	10
Trojan.....	TXS119.....	49	23.5	5	22000	10
Trojan.....	TXS120.....	53	28.9	3	20900	7
Whisnand.....	851M.....	35	22.5	1	22000	13
Whisnand.....	871.....	36	22.3	0	22000	10
Whisnand.....	874.....	69	21.2	2	22000	13
Average of entries.....		50	22.6	3	21600	11
L. S. D.....		14	0.7	N.S.	N.S.	6

Table 13. — Extreme Southern Illinois Bottomland: Dixon Springs  
(Planted at 18,000 plants per acre in 30-inch rows)<sup>a</sup>

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
PIONEER 310.....	136	18.5	87	18000
MOEWS 8781W.....	155	18.8	83	17400
BURGDORFS B-837Y.....	125	18.8	90	18000
PIONEER 3306.....	153	19.0	90	16800
PIONEER 3376 (X1002).....	132	19.1	88	16300
BEAR UNICORN X6393.....	133	19.2	91	18000
BO-JAC X7L (X77L).....	130	19.4	85	17400
WHISNAND 851.....	127	19.4	85	17300
PIONEER 8001 (X8001).....	120	19.4	73	17900
PIONEER 3369A.....	140	19.7	90	17200
PRINCETON 990-B.....	126	19.7	76	17800
AINSWORTH X 9.....	148	19.8	87	18000
PRINCETON 920-A.....	131	19.9	83	18000
TAYLOR-EVANS E20YA.....	148	20.4	89	18000
PIONEER 10873.....	122	20.5	84	18000
AV. OF ALL ENTRIES 1968-1969..	132	19.4	88	17486
L.S.D.....	25	2.5	14	1100

<sup>a</sup> Planted in 40-inch rows in 1968.



Table 13. — Dixon Springs, continued

SUMMARY: 1970						
Brand	Variety	Total Acre Yield	Grain Moisture	Lodged Plants	Plants Per Acre	Blight
		bu.	perct.	perct.		perct.
Ainsworth.....	0384.....	40	22.8	18	18000	33
Ainsworth.....	0793.....	58	24.1	48	16700	23
Ainsworth.....	8478.....	108	25.5	9	17700	13
Ainsworth.....	X-9.....	49	19.7	60	17700	45
Bear.....	876.....	54	22.5	54	17800	25
Bear.....	Unicorn X845.....	53	18.9	48	17500	30
Bo-Jac.....	3451.....	88	22.8	17	16800	18
Bo-Jac.....	X1-83.....	124	25.9	11	17500	11
Bo-Jac.....	X1-92.....	117	28.3	2	15300	4
Burgdorf.....	B-99AW*.....	48	23.5	25	17700	25
Burgdorf.....	B-837.....	68	22.6	23	17700	23
Moews.....	M8781W*.....	117	32.1	1	18000	6
Moews.....	Sup'r Maiz 721... ..	59	23.6	26	16800	20
O's Gold.....	5500.....	108	25.0	14	17200	14
Pioneer.....	3199.....	90	26.7	21	17500	14
Pioneer.....	3300.....	84	25.2	25	17700	15
Pioneer.....	3306.....	30	22.4	45	17200	40
Pioneer.....	3308.....	102	26.3	10	16300	8
Pioneer.....	3334.....	105	28.8	8	17700	4
Pioneer.....	3369A.....	106	25.8	19	17800	13
Pioneer.....	3376.....	92	24.0	11	17800	18
Pioneer.....	X2473.....	109	31.0	7	17700	5
Pioneer.....	X5349.....	136	29.5	14	17500	6
Pioneer.....	X5754.....	98	27.3	5	17800	6
Pocklington.....	P-7361.....	50	22.0	42	17000	33
Princeton.....	940*.....	60	23.9	11	17700	23
Princeton.....	960*.....	59	23.4	19	18000	23
Princeton.....	990B*.....	61	24.3	33	17200	20
Princeton.....	1006.....	47	24.3	66	16500	28
Schenk.....	S-73A.....	62	21.1	25	17500	23
Schenk.....	S-96W*.....	51	23.4	38	17200	25
Schenk.....	SS-98W*.....	59	23.6	18	17700	25
Schenk.....	SS-X8.....	61	25.3	28	17800	23
Schenk.....	SS-X101W*.....	130	30.4	6	16300	3
Stull.....	500W*.....	55	23.3	42	18000	23
Stull.....	550W*.....	65	23.1	29	17500	25
Stull.....	720SX.....	66	23.1	29	17700	23
Stull.....	807.....	39	24.1	36	17700	25
Stull.....	807A+SX.....	60	24.4	41	17200	18
Taylor-Evans.....	E-20-YA.....	72	24.8	35	16300	18
Average of entries.....		75	24.5	25	17400	20
L. S. D.....		17	1.8	20	1700	6

\* Denotes white hybrid

Table 13a. — Extreme Southern Illinois Bottomland:  
Dixon Springs, Increased Planting Rate  
(Planted at 24,000 plants per acre in 30-inch rows)<sup>a</sup>

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1967, 1969				
	BU.	PERCT.	PERCT.	
WHISNAND 874.....	147	17.7	74	22300
TAYLOR-EVANS TE BONUSMAKER S.....	121	17.7	81	22700
PIONEER 3306.....	151	17.8	90	23300
BEAR 871.....	158	18.0	75	22700
WHISNAND 871.....	139	18.4	78	24000
SCHENK SS-77A.....	132	18.6	81	23000
PRINCETON SX-809.....	151	18.7	82	23100
BURGDORFS B-845X.....	138	18.8	82	23000
PIONEER 310.....	154	19.0	93	23300
SCHENK S-73A.....	137	19.0	83	23200
BEAR 876.....	145	19.8	79	22800
PIONEER 10873.....	156	20.9	76	23900
AV. OF ALL ENTRIES 1967, 1969..	143	19.6	84	23095
L.S.D.....	31	1.2	13	N.S.

<sup>a</sup> Trial discarded in 1968 because of flooding.

Table 13a. — Dixon Springs, Increased Planting Rate, continued

SUMMARY: 1970

Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
Bear.....	Unicorn X872.....	139	29.5	3	23700	6
Bo-Jac.....	X1-83.....	135	26.2	17	23500	9
Bo-Jac.....	X1-92.....	146	30.1	12	17700	5
Bo-Jac.....	X7L.....	90	27.8	15	23500	18
Bo-Jac.....	X70.....	102	21.8	17	24000	20
Bo-Jac.....	X97.....	92	23.4	16	22000	20
Burgdorf.....	B-846.....	86	22.0	21	23300	20
Burgdorf.....	B-922W*	74	24.3	22	22800	20
Moews.....	Sup'r Maiz 72L...	66	24.7	40	23200	20
O's Gold.....	5500.....	106	27.7	10	21500	18
Pioneer.....	309B.....	53	25.6	47	20700	20
Pioneer.....	3196.....	170	28.4	3	21800	2
Pioneer.....	3306.....	41	20.7	56	23300	34
Pioneer.....	3308.....	132	27.7	10	23500	10
Pioneer.....	3369A.....	112	25.8	20	23700	9
Pioneer.....	3376.....	117	25.4	5	24000	9
Pioneer.....	10873.....	131	28.9	11	22800	5
Pioneer.....	X5349.....	168	31.2	8	23500	5
Pioneer.....	X8004.....	123	31.0	11	22300	4
Pioneer.....	XPT.....	133	25.1	7	22300	5
Pocklington.....	P-891.....	60	20.0	14	23700	30
Pocklington.....	P-7361.....	46	21.0	41	23000	30
Pocklington.....	P-7441.....	74	23.6	26	23500	20
Pocklington.....	U. S. 13.....	64	23.2	46	22400	20
Princeton.....	SX-804.....	84	23.9	53	21200	20
Princeton.....	SX-823.....	69	22.1	10	23300	23
Princeton.....	SX-850.....	126	26.0	11	23700	15
Schenk.....	S-96W*	62	23.1	37	23000	20
Schenk.....	SS-66.....	80	21.9	8	22300	20
Schenk.....	SS-88A.....	52	23.9	43	22800	20
Schenk.....	SS-98W*	69	25.3	23	22800	23
Schenk.....	SS-X8.....	65	24.5	17	22000	20
Schenk.....	SS-X101W*	153	34.1	8	20500	4
Stull.....	800W*	49	24.7	52	21800	23
Stull.....	808SX.....	71	25.8	30	23700	20
Taylor-Evans.....	6917.....	60	24.4	19	22800	20
Taylor-Evans.....	Cashmaker.....	62	22.2	18	21300	25
Whisnand.....	874.....	80	22.2	16	23500	20
Average of entries.....		96	25.3	20	22700	16
L. S. D.....		21	1.8	18	3200	4

\* Denotes white hybrid

Table 14. — Extreme Southern Illinois Upland: Carbondale  
(Planted at 18,000 plants per acre in 30-inch rows)<sup>a</sup>

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE		
SUMMARY 1968-1969						
	BU.	PERCT.	PERCT.			
PIONEER 3376 (X1002).....	65	18.4	71	18000		
AINSWORTH X-9.....	62	18.9	58	16700		
PIONEER X2473.....	53	18.9	87	17000		
BEAR UNICORN X6135.....	59	19.0	43	18000		
PIONEER 8001 (X8001).....	63	19.1	77	16600		
PIONEER 3369A.....	70	19.6	66	18000		
BEAR UNICORN X8333.....	60	19.6	52	18000		
ACCO 956.....	72	20.4	77	15500		
BEAR UNICORN X6716.....	59	20.5	65	18000		
PIONEER 321.....	49	20.8	67	15000		
POCKLINGTON P-892.....	55	21.2	71	16300		
BEAR UNICORN X8236.....	65	21.3	60	18000		
MOEWS 8283.....	68	21.4	65	18000		
PIONEER 10873.....	50	21.6	68	17400		
WHISNAND 851.....	63	22.1	67	16100		
MOEWS 7281.....	62	22.7	64	17000		
PIONEER 309B.....	58	23.2	73	14300		
AV. CF ALL ENTRIES 1968-1969..	59	20.4	66	16678		
L.S.D.....	N.S.	2.2	19	1400		
SUMMARY: 1970						
Brand	Variety	Total Acre Yield	Grain Moisture	Lodged Plants	Plants Per Acre	Blight
		bu.	perct.	perct.		perct.
ACCO.....	TGG956.....	13	25.0	13	17700	30
Ainsworth.....	0793.....	16	24.5	4	17800	20
Ainsworth.....	8478.....	26	26.4	9	17800	9
Ainsworth.....	8493.....	19	24.6	5	17500	18
Ainsworth.....	X-9.....	34	24.6	10	17300	28
Bear.....	Unicorn X672.....	13	26.7	11	17800	25
Bear.....	Unicorn X872.....	5	26.3	3	18000	4
Moews.....	M8781W*.....	22	28.7	5	17000	8
Moews.....	Sup'r Maiz 721.....	21	26.4	16	16700	20
O's Gold.....	5500.....	21	25.6	8	17500	20
Northrup-King.....	KT680.....	12	24.7	8	17200	28
Northrup-King.....	FX616.....	20	26.4	18	17800	25
Northrup-King.....	FX678.....	3	24.0	4	17800	10
Pioneer.....	309B.....	27	26.9	16	17200	28
Pioneer.....	3300.....	54	24.3	30	17800	18
Pioneer.....	3306.....	23	22.7	26	17800	35
Pioneer.....	3308.....	29	27.3	6	17800	10
Pioneer.....	3334.....	44	26.8	7	17800	4
Pioneer.....	3369A.....	36	26.8	8	17800	11
Pioneer.....	3376.....	24	25.3	9	17800	18
Pioneer.....	X5349.....	27	29.5	11	17800	6
Pioneer.....	X5754.....	18	25.4	10	17700	5
Pioneer.....	X8001.....	35	26.3	9	18000	13
Tri. County.....	DC2525.....	25	23.6	11	17500	33
Whisnand.....	851.....	18	23.4	8	17700	28
Average of entries.....		24	25.3	13	17700	20
L. S. D.....		14	1.8	11	N.S.	6

<sup>a</sup> Planted in 40-inch rows in 1968.

\* Denotes white hybrid.

Table 14a. — Extreme Southern Illinois Upland: Carbondale,  
Increased Planting Rate  
(Planted at 22,000 plants per acre in 30-inch rows)

ENTRY	TOTAL ACRE YIELD	GRAIN MOISTURE	ERECT PLANTS	PLANTS PER ACRE
SUMMARY 1968-1969				
	BU.	PERCT.	PERCT.	
MOEWS 7372.....	77	19.2	56	21500
PRINCETON SX-803.....	72	19.3	86	20000
WHISNAND 874.....	69	19.3	64	22000
TAYLOR-EVANS CASHMAKER.....	70	19.5	64	19200
PRINCETON SX-836.....	62	19.7	77	21500
PRINCETON SX-690.....	59	19.7	72	21300
PIONEER 3376 (X1C02).....	53	19.7	74	22000
PIONEER 3369A.....	72	19.8	66	21100
WHISNAND 871.....	71	19.9	72	21300
PIONEER 310.....	71	20.0	82	19900
PIONEER 10873.....	68	20.0	63	22000
PIONEER 3306.....	67	20.2	84	21800
PIONEER 309B.....	65	20.3	83	21600
TAYLOR-EVANS TE BONUSMAKER S.....	77	20.6	76	20900
PIONEER 8001 (X8C0L).....	62	20.7	73	21400
PIONEER 3196 (X2786).....	61	21.0	58	21800
PIONEER X2473.....	76	23.1	90	20500
AV. OF ALL ENTRIES 1968-1969..	62	20.2	72	21097
L.S.D.....	N.S.	N.S.	16	1800

Table 14a. — Carbondale, Increased Planting Rate, continued

SUMMARY: 1970						
Brand	Variety	Total Acre	Grain	Lodged	Plants	Blight
		Yield	Moisture	Plants	Per Acre	
		bu.	perct.	perct.		perct.
Bear.....	Unicorn X672.....	39	25.3	17	22000	17
Bear.....	Unicorn X872.....	19	28.4	12	20700	2
Holden.....	Exp. 033A.....	46	26.1	5	19500	20
Holden.....	Exp. 035.....	49	26.7	5	18100	5
Moews.....	M7372.....	42	24.6	5	19400	4
Moews.....	Sup'r Maiz 721...	31	25.1	7	19800	18
Northrup-King.....	KT680.....	27	25.4	6	19200	20
Northrup-King.....	PK616.....	32	24.8	10	19300	20
Northrup-King.....	PK678.....	33	26.1	1	19800	11
Pioneer.....	309B.....	21	28.4	12	20300	20
Pioneer.....	3199.....	57	25.7	8	20700	15
Pioneer.....	3300.....	44	25.2	21	18400	20
Pioneer.....	3306.....	23	24.8	30	18600	27
Pioneer.....	3308.....	51	26.2	14	18500	11
Pioneer.....	3334.....	25	26.9	1	20700	4
Pioneer.....	3369A.....	66	25.9	8	18700	10
Pioneer.....	3376.....	54	25.4	3	18900	15
Pioneer.....	X5349.....	29	29.2	6	20700	5
Pioneer.....	X5754.....	34	25.0	9	18300	4
Princeton.....	833.....	26	23.7	20	18200	23
Princeton.....	SX-650.....	25	20.0	10	19200	3
Princeton.....	SX-803.....	25	25.1	3	19800	25
Princeton.....	SX-823.....	35	25.5	0	20100	22
Princeton.....	SX-850.....	62	27.1	3	20700	12
Stull.....	720SX.....	33	25.9	9	20300	15
Stull.....	807+SX.....	26	26.3	5	20400	15
Stull.....	808SX.....	33	26.4	6	19300	15
Super-Crost.....	S-85.....	41	25.9	10	17600	12
Super-Crost.....	S-86.....	29	26.8	11	20600	20
Taylor-Evans.....	6917.....	43	24.3	13	20000	20
Taylor-Evans.....	Bonusmaker-S.....	12	24.1	7	20700	20
Taylor-Evans.....	Cashmaker.....	52	26.1	20	20300	20
Taylor-Evans.....	E-20-YA.....	60	23.9	10	19300	20
Tri. County.....	SC2600.....	28	26.5	2	20700	20
Whisnand.....	871.....	48	24.5	13	19200	27
Whisnand.....	874.....	36	24.5	15	20600	18
Average of entries.....		37	25.6	9	19600	15
L. S. D.....		23	1.2	15	N.S.	7