

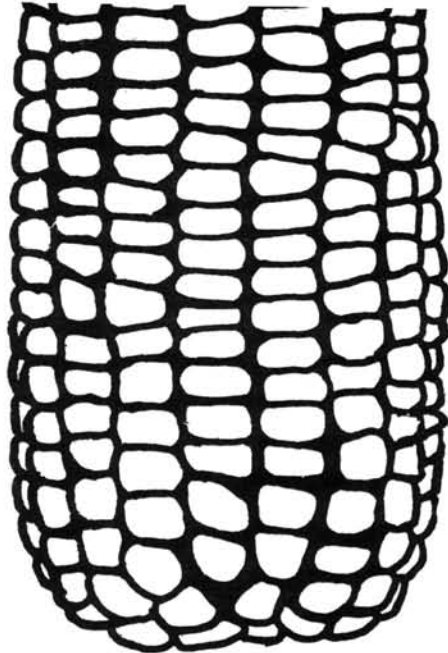
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Michigan Corn Production Hybrids Compared  
Michigan State University Extension Service  
E.C. Rossman, Bary M. Darling, Jerry Taylor, Crop Science  
Formerly F-67  
Issued January 1967  
16 pages

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# Michigan Corn Production

## HYBRIDS COMPARED 1967

COOPERATIVE EXTENSION  
MICHIGAN STATE UNIVERSITY

By: E. C. ROSSMAN, BARY M. DARLING, AND JERRY TAYLOR

*Authors are respectively Professor of Crop Science and Crop Science Aides.*

HYBRID CORN TRIALS are conducted each year by the Michigan Experiment Station in cooperation with the Cooperative Extension Service, Michigan Crop Improvement Association, seed corn companies, and farmers.

Many different hybrids are offered for sale in Michigan. They differ in yield ability, maturity, lodging resistance, and other characteristics. Choosing the best corn hybrids is an important part of profitable corn production. Higher yields and other improvements from planting the best hybrids are obtained with little or no increase in production costs. Seed of the best hybrids generally costs no more than seed of hybrids with lower performance.

### ENTRIES

Two groups of entries are included in the trials:

(1) **Voluntary entries.**—All seed companies are invited each year to enter their hybrids in the trials. A fee is charged to cover some of the direct expenses.

(2) **Extension entries.**—Some seed companies do not participate with voluntary fee-assessed entries and others do not include some of their hybrids that are planted in Michigan. Extension entries are included to provide performance data on some of the hybrids not entered as voluntary entries. They are hybrids suggested by County Extension personnel on the basis of extent of use in the various areas of the state.

No distinction between, or identification of, voluntary and extension entries is made in reporting the results. All hybrids were randomized and compared in the same field using the same procedure. Table 19, presents an index of all hybrids entered in the 1966 trials.

Single cross hybrids are indicated with (2X) and three-way hybrids with (3X) following the hybrid name

and number in the tables. All others are double-cross hybrids.

Michigan experimental hybrids and some experimental hybrids from seed companies are not listed since seed is not yet available for farm use.

### METHODS

Scientific procedures are followed in conducting these trials to give all hybrids equal opportunity to demon-



Corn Maturity Zones and Locations (★) of Trials

strate their capabilities. The best way to compare a group of corn hybrids is to grow them in the same field with the same fertilizer, population, date of planting, etc., for all hybrids.

Seed for voluntary and Extension entries was submitted by the seed companies. Equal numbers of seeds were counted for each plot of all hybrids. Each hybrid was replicated several times in the field. Plots were planted with a standard two-row or four-row corn planter adapted for small plots.

From seed packaging through harvest and data processing, each hybrid was identified only by a code number to reduce chance for any personal bias by anyone working in the field or with the data. The code was deciphered after the data had been processed.

Stands and lodging were counted before harvest. Plots for grain yields were harvested with a one-row picker-sheller. Field data were processed with high speed electronic computers.

Silage yields were taken on all hybrids in the Ingham, Huron, Grand Traverse, Alpena, and Alger county trials. (Tables 8, 13, 16, 17, and 18).

All hybrids in the Monroe, Ingham, and Saginaw County trials were compared at two plant populations (Tables 1, 7, and 11).

## 1966 GROWING CONDITIONS

Planting of all trials was completed between May 4-28. Rainfall at most locations was, again as in 1965 and 1964, below normal and yields were seriously reduced at several locations (Saginaw, Huron, and Grand Traverse counties). Scattered frosts occurred September 16 and more widely on September 26. Harvest conditions during October were favorable at most locations.

Erratic stands (soil insects) resulted in abandonment of the Sanilac county trial. Grain yields were not taken on the Grand Traverse county trial due to the drought. Summaries from previous years (Tables 10 and 15) are presented for these two locations.

The Michigan Crop Reporting Service estimates the 1966 average yield at 67.0 bushels per acre on about 1,407,000 acres for grain compared with 1965 averages of 62.0 bushels per acre on 1,593,000 acres. Average silage yield is estimated at 10.5 tons per acre on 372,000 acres in 1966.

## HOW TO USE THIS BULLETIN

One, two, and three-year averages are presented for all hybrids tested during 1966, 1965, and 1964. One-year data are less reliable than two or three-year averages and should be interpreted with more caution. Confidence in corn performance data increases with more years

and locations of testing. Two or more years' results are more desirable than one year of testing.

The tables tell you three things about the hybrids tested:

- (1) average moisture content at harvest,
- (2) average yield in bushels of shelled corn at 15.5 percent moisture or silage yields, and
- (3) average percentage of stalk lodging (plants broken below the ear at harvest).

Hybrids are recorded in the tables in order of their approximate maturity (early to late) based on moisture content at harvest. Moisture contents were determined from shelled grain samples at all locations harvested for grain and from ear corn samples in the silage trials.

Stalk breakage is caused by corn borers and/or stalk rot diseases.

Two or more plots of the same hybrid in the same field may produce somewhat different results due to uncontrolled variability in the soil and other environmental factors. Replication and randomization of the entries are two methods used to reduce these errors. Since these methods do not eliminate all of these effects, differences necessary for statistical significance have been calculated for yield and moisture content.

When comparing any two hybrids, the difference between them should not be considered significant unless it exceeds the value listed at "least significant differences" at the bottom of the tables.

Agronomic information for each trial is given at the bottom of the table. Fertilizer amounts are total pounds per acre of nitrogen,  $P_2O_5$  and  $K_2O$  applied during the season.

## HOW TO CHOOSE A CORN HYBRID

**Adaptation.**—The map on the cover shows location of the trials and divides Michigan into four maturity zones. A map can show maturity zones only in a general way. Local variations in weather, soil type and fertility, time of planting, and other conditions all affect adaptation. Corn hybrids are often adapted to more than one zone.

Find the zone in which you plan to grow the corn, and refer to the table which gives results for the trial conducted nearest your farm. Also, refer to the other tables listed in your zone. A hybrid which has done well at two or more locations is more likely to be a good hybrid for your farm, too.

**Rate of plantings.**—A population of 12,000 plants per acre is best for corn soils producing 50 bushels or less per acre. Populations of 16 to 18,000 are best for soils producing more than 50 bushels per acre. Higher populations (20,000 or more) should be considered only for soils consistently producing more than 100 bushels per acre. Rainfall deficiencies with high plant popula-

tion usually result in no increase and frequently a decrease in yield compared to 16 to 18,000. Lodging and harvest losses are often greater at high populations.

**Maturity.**—Hybrids are listed in the tables in order of maturity—early to late. One percent more moisture at harvest means a delay in maturity of about two days. Corn is mature when moisture is down to 35 percent in the grain or 40 percent in the ear. Ear corn is safe to crib when moisture content is below 25 percent.

**For grain.**—It is better to choose an early corn (below average moisture content) than a late corn for grain. The tables show that a good yield does not depend on later maturity. Advantages of early maturing hybrids are:

- (1) They usually mature before killing frosts.
- (2) Good yielding early hybrids generally yield as much or more corn than late hybrids in most areas in Michigan.
- (3) Lower moisture content at harvest permits safer storage. You will take more clean, sound, high-quality corn out of the crib.
- (4) Mature, dry corn makes better livestock feed.
- (5) You can harvest earlier in the fall when weather conditions are most favorable. Early harvest may reduce corn losses resulting from broken stalks and dropped ears in the field.
- (6) Early hybrids with lower moisture content at harvest reduces cost for drying and market discount for moisture is less.

(7) Fall plowing of corn stubble may be possible with early hybrids on land not subject to erosion.

**For silage.**—The best silage contains a high percentage of grain. Hybrids that produce high yields of grain should be used for silage. High dry weight production per acre is a better basis for choosing hybrids for silage than tons of green weight.

Corn for silage should reach the early dent stage well before frost in an average year. The early dent stage, when most of the kernels have dented, is the best time to begin harvest for silage. Dry matter production continues to increase until maturity.

**Other considerations.**—Choose early hybrids for late plantings, low soil fertility, sandy soils, muck soils, and for corn which is to be followed by a winter grain or cover crop.

You can get some degree of "crop insurance" by choosing two or three hybrids which differ slightly in their maturity. If one hybrid runs into unfavorable weather at a critical stage of growth, another may be affected less and come through with a good crop.

Even though you have been growing a hybrid which has given good results, you may be able to improve your corn crop by trying one or more of the hybrids with better records in these trials. Well tested new hybrids are worth trying. You may want to try a new hybrid in a strip in the same field with your present hybrid.

Table 1

**SOUTHERN MICHIGAN**

Zone 1

**MONROE COUNTY TRIAL**

One, Two, and Three Year Averages—1966, 1965, 1964

Hybrid	% Moisture			Bushels Per Acre						% Stalk Lodging					
				1966		2 yrs.		3 yrs.		1966		2 yrs.		3 yrs.	
	1966	2 yrs.	3 yrs.	16000	20400	15600	19800	15600	20100	16000	20400	15600	19800	15600	20100
Michigan 270	19.1	21	21	80.0	86.8	80	82	79	76	8.3	9.1	8	9	9	8
Michigan 250	20.3	23	22	86.7	88.2	86	86	81	77	3.9	5.8	3	3	4	2
Michigan 400	21.7	25	25	94.9	97.4	90	93	91	85	0.0	0.0	1	1	2	1
Michigan 300	22.3	25	23	83.8	78.9	82	82	87	75	3.2	5.2	7	5	8	7
Michigan 430	22.4	26	25	101.6	102.5	96	101	96	91	0.0	3.4	1	7	3	7
Michigan 370	22.5	25	25	83.2	91.0	86	92	89	86	3.8	5.1	4	5	6	4
Michigan 402-2X (2X) <sup>1</sup>	22.5	25	25	111.9	115.2	105	109	103	99	1.3	1.4	3	1	3	2
Michigan 425	23.0	26	26	104.7	107.9	105	106	101	94	4.7	4.4	4	4	5	5
DeKalb XL 306 (3X)	23.0	—	—	89.7	97.4	—	—	—	—	1.8	2.9	—	—	—	—
Haapala SX 300 A (2X)	23.2	—	—	89.3	96.6	—	—	—	—	2.1	0.0	—	—	—	—
Pioneer 3775 (2X) <sup>1, 2</sup>	23.6	—	—	112.3	135.2	—	—	—	—	3.7	5.5	—	—	—	—
Blaney B 500 (2X)	23.7	26	—	85.5	96.2	90	99	—	—	1.5	0.0	3	2	—	—
Michigan 550	23.8	27	27	107.1	109.4	104	112	109	105	1.6	0.6	2	2	2	2
DeKalb XL 325 (3X)	24.2	27	—	104.5	111.7	104	103	—	—	1.3	3.2	3	5	—	—
Michigan 500-2X (2X) <sup>1, 2</sup>	24.5	—	—	118.8	141.7	—	—	—	—	0.8	2.1	—	—	—	—
OYO 130 A	24.5	—	—	73.0	84.8	—	—	—	—	0.8	4.5	—	—	—	—
Northrup King X 5528 (2X)	24.5	—	—	82.5	92.3	—	—	—	—	5.8	8.2	—	—	—	—
Blaney B 800 E (2X) <sup>1</sup>	24.5	27	—	111.3	113.4	108	112	—	—	1.6	3.3	1	3	—	—

(Continued on Page 4)

Table 1—MONROE COUNTY TRIAL (Continued)

Hybrid	% Moisture			Bushels Per Acre						% Stalk Lodging					
	1966	2 yrs.	3 yrs.	1966		2 yrs.		3 yrs.		1966		2 yrs.		3 yrs.	
				16000	20400	15600	19800	15600	20100	16000	20400	15600	19800	15600	20100
DeKalb 409	24.5	27	—	110.2	111.3	98	103	—	—	11.5	12.7	7	11	—	—
Taylor-Evans Exp. 6424	24.6	27	—	101.5	99.8	97	92	—	—	3.3	2.4	3	2	—	—
Funk Bros. G 4350 (2X)	24.6	—	—	101.1	85.5	—	—	—	—	1.5	1.2	—	—	—	—
Blaney B 600 (2X)	24.8	29	—	104.4	113.0	95	101	—	—	2.1	1.3	3	3	—	—
Haapala SX 621 (2X)	24.8	—	—	102.5	115.4	—	—	—	—	2.3	0.6	—	—	—	—
United Hagie IXL-5 (2X) <sup>1, 2</sup>	25.0	—	—	118.5	124.8	—	—	—	—	3.1	0.6	—	—	—	—
Pioneer 371	25.0	28	28	106.5	115.9	97	109	96	100	0.7	3.7	2	3	5	4
P.A.G. SX 9 (2X) <sup>1</sup>	25.2	30	30	111.2	113.4	107	102	111	98	2.8	1.8	3	3	4	3
Michigan Exp. 63-981 (3X) <sup>1</sup>	25.5	—	—	114.8	115.3	—	—	—	—	4.3	2.7	—	—	—	—
P.A.G. SX 310 (2X)	25.5	—	—	101.3	104.4	—	—	—	—	3.3	2.2	—	—	—	—
Simons W601 (2X) <sup>1</sup>	25.5	—	—	116.6	111.2	—	—	—	—	2.3	4.8	—	—	—	—
DeKalb XL 45 (2X) <sup>1, 2</sup>	25.7	30	29	114.1	137.5	101	111	101	105	0.7	0.5	2	4	1	4
Funk Bros. G34	25.8	29	—	98.0	96.8	88	89	—	—	4.6	0.6	5	1	—	—
Garno S 95 (2X)	25.9	—	—	97.7	107.8	—	—	—	—	2.9	2.3	—	—	—	—
Supercroft S 30 A (2X) <sup>1</sup>	25.9	—	—	112.6	115.5	—	—	—	—	2.7	1.1	—	—	—	—
Northrup King PX 44 (2X) <sup>1, 2</sup>	25.9	27	—	115.6	121.9	99	108	—	—	1.4	2.6	1	3	—	—
Michigan 490	25.9	29	28	96.5	105.8	101	106	102	102	4.0	5.5	6	6	6	8
Supercroft 337	26.0	29	27	81.4	93.0	86	94	93	93	2.3	3.8	3	4	4	5
DeKalb 238	26.0	29	28	101.1	112.1	97	108	100	100	0.7	0.5	0	2	1	3
Northrup King PX610 (3X) <sup>2</sup>	26.0	—	—	103.0	120.0	—	—	—	—	0.0	10.1	—	—	—	—
Bayless SX 415 (2X) <sup>2</sup>	26.0	—	—	99.0	120.1	—	—	—	—	1.9	2.9	—	—	—	—
Blaney 6616 (3X)	26.1	—	—	109.7	108.8	—	—	—	—	2.6	0.0	—	—	—	—
P.A.G. SX 31 (2X)	26.2	31	—	105.1	113.4	93	107	—	—	2.1	1.6	3	3	—	—
Supercroft 3340	26.2	30	30	81.0	87.6	85	85	88	73	0.0	2.8	0	3	1	3
Northrup King PX 52 (2X) <sup>2</sup>	26.3	31	—	110.8	118.1	100	101	—	—	1.4	0.0	2	2	—	—
Michigan 570	26.4	29	28	98.6	105.3	98	101	101	94	1.5	6.9	4	7	8	7
Blaney B 771 (3X)	26.5	—	—	99.4	105.4	—	—	—	—	1.7	0.6	—	—	—	—
OYO 225 (2X) <sup>1</sup>	26.5	—	—	112.8	115.8	—	—	—	—	2.3	0.5	—	—	—	—
Blaney B 661 (3X)	26.5	—	—	84.5	90.1	—	—	—	—	0.0	0.7	—	—	—	—
Wolverine W 175 (2X)	26.6	29	—	94.2	102.4	98	104	—	—	3.2	2.3	3	1	—	—
Wolverine W 370 (3X)	26.7	—	—	90.8	100.3	—	—	—	—	1.1	4.5	—	—	—	—
Northrup King PX 50 (2X) <sup>1</sup>	26.7	—	—	112.3	113.1	—	—	—	—	0.6	0.0	—	—	—	—
DeKalb 415 A	26.7	—	—	99.7	112.2	—	—	—	—	3.8	1.4	—	—	—	—
Tomco Genetic Giant 440	26.7	—	—	97.6	105.2	—	—	—	—	1.4	2.3	—	—	—	—
Pioneer 3466	26.7	30	—	93.9	97.6	101	98	—	—	0.0	2.4	2	2	—	—
Taylor-Evans Bonusmaker (2X)	27.1	31	—	87.5	94.7	91	97	—	—	1.8	4.2	4	4	—	—
DeKalb 427	27.1	30	29	94.3	107.7	89	105	94	100	3.6	2.5	3	3	2	3
United Hagie IXL 6 (2X)	27.1	—	—	94.4	113.2	—	—	—	—	1.0	0.6	—	—	—	—
DeKalb 400 (2X) <sup>1, 2</sup>	27.1	31	29	115.5	120.0	113	115	108	106	2.5	3.9	2	2	3	3
Anderson A 110 A	27.2	30	30	100.8	105.5	92	97	87	79	0.7	3.6	2	4	3	3
Blaney 6606 A (2X) <sup>2</sup>	27.2	—	—	104.9	126.0	—	—	—	—	0.0	1.4	—	—	—	—
Northrup King KM 567	27.3	31	30	95.4	107.0	105	113	104	98	1.8	0.5	2	1	5	1
DeKalb XL 346 (3X)	27.4	31	—	104.8	110.1	101	98	—	—	0.0	0.0	2	1	—	—
Crib Filler 40 (2X) <sup>1, 2</sup>	27.4	—	—	113.9	126.5	—	—	—	—	1.9	0.5	—	—	—	—
P.A.G. 285	27.5	31	—	80.4	87.2	85	89	—	—	5.2	7.0	3	4	—	—
Taylor-Evans Moneymaker (3X)	28.0	32	—	93.9	88.7	89	89	—	—	0.9	2.6	0	3	—	—
Michigan 620	28.4	31	30	103.7	95.3	101	99	104	96	5.3	4.1	5	3	4	3
Anderson A 105	28.6	33	33	99.3	91.0	101	92	95	79	4.2	7.2	6	5	6	4
DeKalb XL 342 (3X) <sup>1</sup>	28.7	—	—	114.0	102.1	—	—	—	—	0.0	3.0	—	—	—	—
Supercroft 5900	29.1	32	32	110.0	91.6	100	95	103	94	1.0	1.2	2	1	3	2
DeKalb XL 341 (3X) <sup>1</sup>	29.6	31	—	113.4	98.1	106	104	—	—	1.4	1.7	3	3	—	—
DeKalb XL 361 (3X)	31.5	—	—	82.4	90.8	—	—	—	—	0.7	0.5	—	—	—	—
Averages	25.6	29	27	101.2	106.8	97	101	97	93	2.3	2.7	3	4	4	4
Range	19.1 to 31.5	21 to 33	21 to 33	73.0 to 118.8	78.9 to 141.7	80 to 113	82 to 115	78 to 111	73 to 106	0.0 to 11.5	0.0 to 12.7	0 to 8	1 to 11	1 to 9	1 to 8
Least significant differences	1.3	1	1	9.9	11.1	4	4	4	4						

1= Significantly better than average yield at 16,000 population in 1966.  
 2= Significantly better than average yield at 20,400 population in 1966.

	1966	1965	1964
Planted	May 9-10	May 11	May 6-7
Harvested	November 10	October 22	October 13
Soil type	Brookston loam	Brookston loam	Brookston loam
Previous crop	Corn	Wheat	Corn
Rows	36"	36"	36"
Population	16,000 and 20,400	15,100 and 19,200	15,700 and 20,600
Fertilizer	130-120-120	131-122-86	121-83-42
Soil test: pH	7.2	7.0	6.2
P	39 (high)	20 (medium)	44 (high)
K	240 (high)	167 (medium)	196 (high)

Farm Cooperator: Earl Creech, Dundee.  
 County Agricultural Extension: R. J. Laser, Monroe.

Table 2

Zone 1

**SOUTHERN MICHIGAN  
HILLSDALE COUNTY TRIAL  
One, Two, and Three Year Averages—1966, 1965, 1964**

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	2	3		2	3		2	3	
	1966	yrs.	yrs.	1966	yrs.	yrs.	1966	yrs.	yrs.
Michigan 250	23.9	26	24	119.7	99	94	3.7	3	3
Michigan 270	24.8	25	23	106.3	91	89	17.5	14	11
Michigan 300	26.4	28	26	95.4	86	90	8.9	8	6
Michigan 400	26.9	28	28	112.0	99	102	2.9	5	5
Michigan 370	27.0	28	28	108.4	95	98	11.0	8	6
Michigan 402-2X (2X)	27.9	30	29	121.0	106	110	2.4	3	5
Todd 130A (3X)	29.7	31	—	117.9	102	—	0.6	2	—
Wyckoff W5X	29.8	32	30	106.3	95	98	5.2	6	5
OYO 130A	29.8	—	—	110.8	—	—	3.5	—	—
Michigan 430	29.8	33	32	114.0	105	104	7.0	7	7
Wyckoff W9X	29.9	33	32	124.2	104	110	1.7	1	1
Supercroft 214	30.2	34	—	127.1	104	—	3.3	2	—
Taylor Evans Exp. 6424	30.2	33	—	116.2	103	—	1.9	4	—
Michigan 425	30.2	33	31	121.0	108	108	2.4	3	3
Funk Bros. G32	30.3	33	32	123.2	110	113	2.4	3	2
Funk Bros. G17A	30.3	—	—	110.7	—	—	3.1	—	—
Michigan Exp. 63-981 (3X)*	30.9	—	—	131.1	—	—	2.4	—	—
Northrup King PX 44 (2X)	30.9	35	—	120.0	103	—	2.9	2	—
Supercroft 209	31.0	36	—	115.4	103	—	4.5	3	—
Todd 303 (3X)	31.1	34	33	121.3	100	100	4.0	2	2
Michigan 550	31.2	33	33	127.5	113	115	2.6	2	2
Simons W601 (2X)	31.2	—	—	113.0	—	—	3.8	—	—
Todd 240	31.2	35	34	116.7	103	106	2.3	2	2
Cowbell 112 SX (2X)	31.3	—	—	118.8	—	—	4.3	—	—
Todd Exp. M6065 (2X)	31.4	—	—	118.3	—	—	3.3	—	—
Michigan 500-2X (2X)*	31.4	—	—	150.6	—	—	2.9	—	—
Muncy Chief SX 550 (2X)	31.4	—	—	108.6	—	—	1.3	—	—
Haapala SX 510 (2X)	31.4	—	—	110.9	—	—	3.8	—	—
Todd 420	31.5	34	—	99.1	90	—	2.7	2	—
DeKalb XL 325 (3X)	31.6	33	—	115.1	108	—	1.2	1	—
Todd M55 (2X)	31.7	37	—	123.9	97	—	0.0	0	—
Bayless SX 415 (2X)	31.8	—	—	116.3	—	—	2.1	—	—
Pioneer 371	31.8	36	34	121.3	100	103	3.0	2	2
Northrup King X5528 (2X)	31.8	—	—	114.3	—	—	1.9	—	—
Wyckoff W10A	32.1	36	34	125.4	110	114	1.9	1	2
Northrup King KM567*	32.1	36	35	139.2	118	113	2.8	2	2
Muncy Chief SX 660 (2X)	32.2	37	—	97.7	91	—	1.3	1	—
DeKalb 414	32.3	34	33	106.0	103	104	0.6	1	1
Todd 505A (3X)	32.3	—	—	108.4	—	—	2.4	—	—
Pioneer 3466	32.4	35	—	123.4	109	—	1.3	3	—
OYO 225 (2X)*	32.5	—	—	139.1	—	—	4.0	—	—
DeKalb 238	32.6	35	34	119.8	106	105	5.0	4	4
DeKalb XL45 (2X)	32.7	35	34	124.6	109	111	1.2	1	1
Haapala SX 626 (2X)*	32.7	—	—	146.3	—	—	0.6	—	—
Crib Filler 29	32.7	—	—	112.0	—	—	3.9	—	—
Funk Bros. G34	33.2	36	34	112.8	99	100	0.6	1	1
Hulting 243	33.4	36	—	123.0	109	—	7.0	5	—
Muncy Chief H 630	33.4	37	—	100.0	90	—	12.3	10	—
DeKalb 409	33.5	35	34	112.3	99	101	6.8	5	4
Wolverine W370 (3X)	33.6	—	—	123.4	—	—	0.7	—	—
DeKalb 400 (2X)*	33.9	35	33	133.9	120	118	0.6	1	1
DeKalb 427	33.9	35	33	113.5	110	113	4.0	3	3
DeKalb XL 342 (3X)	33.9	—	—	124.8	—	—	0.7	—	—
Pioneer 354A	34.0	37	—	107.2	99	—	6.6	5	—
DeKalb 441A	34.3	38	—	117.3	102	—	0.6	2	—
P.A.G. 285	34.3	36	35	109.0	97	99	0.0	0	1
Northrup King PX610 (3X)*	34.7	—	—	137.2	—	—	1.8	—	—
Northrup King PX 50 (2X)	34.7	—	—	124.2	—	—	1.8	—	—
Michigan 570	34.7	37	34	115.1	104	103	8.0	9	7
Northrup King PX 52 (2X)	35.0	39	—	119.8	99	—	1.3	1	—
Michigan 490	35.1	36	35	118.4	108	104	7.8	6	5
P.A.G. SX31 (2X)	35.1	37	—	125.5	110	—	0.6	2	—
Muncy Chief SX770 (2X)	35.1	38	—	108.7	94	—	2.1	2	—
Bayless SX 601 (2X)	35.4	—	—	120.9	—	—	9.8	—	—
DeKalb XL 341 (3X)	35.6	37	—	107.5	102	—	1.9	3	—

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	2	3		2	3		2	3	
	1966	yrs.	yrs.	1966	yrs.	yrs.	1966	yrs.	yrs.
Taylor Evans Bonus-maker (2X)	35.7	38	—	113.0	102	—	4.8	3	—
Michigan 620	35.7	39	37	118.2	105	109	6.0	6	6
Hulting 260 SC	36.0	39	—	117.6	104	—	0.0	2	—
P.A.G. SX 98 (2X)	36.0	—	—	105.3	—	—	4.5	—	—
Supercroft 441	36.3	—	—	109.8	—	—	3.1	—	—
DeKalb XL 346 (3X)	37.0	39	—	106.8	101	—	1.2	1	—
Hulting 482	37.2	40	—	95.3	90	—	0.6	1	—
Hulting 480	37.2	39	—	112.6	98	—	2.4	1	—
DeKalb XL 361 (3X)	38.6	41	40	120.0	106	112	1.8	2	1
Crib Filler 40 (2X)	38.7	—	—	119.5	—	—	5.2	—	—
Taylor Evans Money-maker (3X)	38.7	40	—	99.0	91	—	2.4	4	—
P.A.G. 313 (3X)	40.0	—	—	94.2	—	—	5.7	—	—
Averages	32.8	35	32	117.4	102	105	3.5	3	3
Range	23.9 to 40.0	25 to 41	23 to 40	94.2 to 150.6	86 to 120	89 to 118	0.0 to 17.5	0 to 14	1 to 11
Least significant difference	1.7	1	1	12.3	4	4			

\*Significantly better than average yield in 1966.

	1966	1965	1964
Planted	May 28	May 8	May 15
Harvested	October 26	October 20	October 23
Soil type	Fox sandy loam	Fox sandy loam	Fox sandy loam
Previous crop	Corn	Corn	Corn
Population	17,300	16,300	15,600
Rows	36"	36"	36"
Fertilizer	Manure 137-69-120	Manure 125-60-60	132-66-33
Soil test: pH	6.7	6.5	6.8
P	120 (very high)	53 (high)	33 (medium)
K	125 (medium)	87 (low)	72 (low)

Farm Cooperator: Keith Brown, Jonesville,  
County Agricultural Extension: A. T. Hall, Hillsdale.

Table 3

Zone 1

**SOUTHERN MICHIGAN  
BRANCH COUNTY TRIAL  
One Year Averages—1966**

Hybrid	% Moisture	Bushels Per Acre	% Stalk Lodging
Michigan 270	20.7	100.8	8.7
Michigan 250	21.9	106.5	10.8
Michigan 300	22.3	95.8	8.3
Michigan 370	22.7	99.2	5.6
Michigan 400	23.3	101.0	1.8
Todd 130A (3X)	23.3	101.1	12.8
Michigan 402-2X (2X)	23.6	117.6	6.7
Funk Bros. G 17A	24.0	120.0	9.7
Wyckoff W9X	24.1	116.9	5.5
Wyckoff W5X	24.1	103.0	9.5
Taylor-Evans Exp. 6424	24.3	120.7	0.0
Michigan 425	24.3	125.4	4.9
Michigan 430	24.3	121.0	3.3
Todd 240	24.6	115.1	3.0
Supercroft 209	24.7	126.0	5.4
Michigan 500-2X (2X)*	24.9	141.9	2.5
Funk Bros. G32	25.0	114.2	7.9
Pioneer 371	25.3	119.6	2.4
Northrup King X5528 (2X)	25.3	121.8	19.2
Simons W601 (2X)	25.3	125.8	2.4

Table 3—BRANCH COUNTY (Continued)

Hybrid	% Moisture	Bushels Per Acre	% Stalk Lodging
DeKalb 409	25.4	116.2	7.5
Cowbell 112 SX (2X)*	25.4	135.6	5.9
Todd Exp. M6065 (2X)	25.4	114.0	1.2
Todd M55 (2X)*	25.5	135.6	0.6
OYO 130A	25.5	101.8	9.1
Haapala SX 510 (2X)	25.5	120.3	3.0
Pioneer 3466	25.6	130.1	6.6
Michigan 550	25.6	125.9	8.0
DeKalb XL 45 (2X)	25.6	127.9	1.8
P.A.G. SX 9 B (2X)	25.7	120.7	1.8
Supercroft 214	25.7	117.2	5.3
Northrup King PX 610 (3X)*	25.7	138.2	1.8
Muncy Chief SX 660 (2X)	25.8	100.8	10.4
DeKalb XL 325 (3X)	25.9	112.4	1.2
Todd 420	26.0	98.9	4.8
Todd 303 (3X)	26.0	105.4	3.7
Wyckoff W 10 A*	26.1	133.0	1.8
Crib Filler 29	26.2	122.4	9.7
Northrup King PX 52 (2X)	26.2	127.8	1.2
Hulting 260 SC	26.3	121.0	1.8
DeKalb 414	26.4	117.8	3.6
Michigan Exp. 63-981 (3X)	26.4	125.6	8.5
Funk Bros. G 34	26.4	109.9	4.8
Bayless SX 415 (2X)*	26.5	133.3	4.2
Pioneer 354 A*	26.5	134.8	12.4
Haapala SX 626 (2X)*	26.5	135.5	1.8
Northrup King PX 44 (2X)	26.5	111.2	3.6
P.A.G. SX 31 (2X)	26.6	123.3	2.4
Muncy Chief H 630	26.6	107.7	6.7
Todd 505A (3X)	26.8	118.5	1.9
Muncy Chief SX 550 (2X)	26.9	116.2	3.0
DeKalb 238	27.0	117.8	3.7
Northrup King PX 50 (2X)*	27.0	132.2	4.8
Michigan 490	27.1	122.7	7.1
DeKalb 400 (2X)*	27.2	138.5	3.1
Michigan 570	27.3	122.3	7.4
Wolverine 370 (3X)	27.3	119.2	3.6
DeKalb 427	27.3	104.8	1.8
OYO 225 (2X)	27.6	118.7	9.7
Northrup King KM 567*	27.6	131.9	5.9
Hulting 243	27.7	120.3	7.8
P.A.G. 285	27.7	102.4	0.0
Bayless SX 601 (2X)*	28.1	140.8	9.0
Taylor-Evans Bonusmaker (2X)	28.4	115.5	3.6
Crib Filler 40 (2X)	28.5	129.3	3.7
Hulting 482	28.5	108.6	1.8
Muncy Chief SX770 (2X)	28.7	113.3	1.2
DeKalb 441A*	28.8	136.8	2.4
DeKalb XL 342 (3X)*	28.8	145.8	1.2
DeKalb XL 346 (3X)	28.9	118.5	0.6
Hulting 480	29.0	115.3	1.2
P.A.G. 313 (3X)	29.2	109.1	0.6
Michigan 620	29.4	127.7	5.4
DeKalb XL 341 (3X)	29.4	122.5	3.6
Taylor-Evans Moneymaker (3X)	29.6	109.1	3.6
Supercroft 441	30.1	94.5	5.5
DeKalb XL 361 (3X)	31.1	129.6	1.8
Average	26.4	118.0	4.8
Range	20.7 to 31.1	94.5 to 145.8	0.0 to 19.2
Least significant difference	1.7	12.6	

\*Significantly better than average yield in 1966.

Planted—May 27  
Soil type—Gilford sandy loam  
Population—17,100  
Fertilizer—116-92-90

Harvested—October 29  
Rows—36"  
Previous crop—corn

Farm Cooperator: George Matthews, Union City.  
County Agricultural Extension: Paul Thompson, Coldwater.

Table 4

Zone 1

**SOUTHERN MICHIGAN  
KALAMAZOO COUNTY TRIAL**

One, Two, and Three Year Averages—1966, 1965, 1964

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	1966	2 yrs.	3 yrs.	1966	2 yrs.	3 yrs.	1966	2 yrs.	3 yrs.
Michigan 270	23.0	24	24	54.5	55	53	6.2	7	6
Michigan 300	24.8	27	26	61.1	55	54	9.0	5	5
Michigan 250	25.1	26	27	54.4	52	52	6.0	4	5
Michigan 400	26.0	29	30	62.1	62	63	3.3	4	3
Michigan 370	26.3	29	30	56.4	59	57	4.2	3	2
Pioneer 3675	26.4	—	—	54.7	—	—	4.5	—	—
Funk Bros. G17A*	27.0	30	30	68.0	58	61	1.4	2	1
Wyckoff W5X	27.1	31	31	50.7	52	58	2.0	2	1
Cowbell 55*	27.2	—	—	70.8	—	—	2.7	—	—
Michigan 402-2X (2X)*	27.3	30	31	71.2	69	64	4.0	2	2
DeKalb XL 325 (3X)*	27.9	31	—	66.7	63	—	1.3	1	—
Michigan 430	27.3	31	31	63.2	60	61	5.9	7	6
Funk Bros. G32	28.5	32	32	61.7	58	56	2.0	2	1
Michigan 550	28.6	32	33	65.3	68	67	1.9	2	2
Crib Filler 17	28.7	—	—	53.2	—	—	0.7	—	—
Michigan 425*	28.7	31	32	68.5	65	64	4.6	2	2
DeKalb XL45 (2X)*	29.0	34	35	70.5	72	70	0.7	1	0
Pioneer 368	29.1	33	35	62.6	66	65	2.0	5	4
DeKalb 409	29.1	32	33	61.0	59	58	9.6	7	6
Wyckoff W10X	29.2	—	—	60.4	—	—	2.0	—	—
Haapala SX410 (2X)	29.3	—	—	45.6	—	—	2.0	—	—
Pioneer 3775 (2X)	29.4	—	—	52.5	—	—	1.9	—	—
Michigan 500-2X (2X)*	29.4	—	—	77.8	—	—	0.6	—	—
Michigan Exp. 63-981 (3X)*	29.5	—	—	74.1	—	—	5.3	—	—
Northrup King PX610 (3X)	29.6	—	—	61.2	—	—	1.9	—	—
Taylor Evans Exp. 6424	29.7	32	—	54.1	55	—	2.0	2	—
Taylor Evans Bonus-maker (2X)*	29.7	33	—	68.2	63	—	2.1	2	—
Cowbell 1125X (2X)	29.8	—	—	57.9	—	—	3.3	—	—
Tomco Genetic Giant 440*	29.9	34	—	67.9	62	—	2.6	3	—
Cowbell 57	30.3	—	—	53.0	—	—	3.0	—	—
DeKalb 414	30.5	35	36	60.3	58	55	3.8	2	2
Pioneer 3466	30.6	33	—	59.1	63	—	1.3	2	—
DeKalb 400 (2X)	30.7	33	34	61.8	68	69	0.0	0	0
P.A.G. SX66 (2X)*	30.7	34	35	68.2	68	66	1.2	1	2
Pioneer 371	30.8	33	35	52.3	56	57	1.4	2	4
Northrup King X5528 (2X)	30.8	—	—	51.8	—	—	2.6	—	—
Northrup King PX52 (2X)	31.0	35	—	57.8	55	—	0.7	0	—
P.A.G. SX9A (2X)	31.0	—	—	54.1	—	—	1.9	—	—
Northrup King PX44 (2X)	31.0	33	—	52.1	52	—	2.6	3	—
Taylor-Evans Money-maker (3X)	31.2	34	—	45.0	57	—	2.6	2	—
P.A.G. SX9 (2X)	31.2	34	36	64.6	62	62	1.9	2	2
Bayless SX415 (2X)*	31.2	—	—	69.4	—	—	3.3	—	—
Michigan 490	31.2	34	35	59.8	65	67	3.2	4	4
DeKalb XL346 (3X)	31.3	37	—	52.9	54	—	0.0	0	—
Corgill 240	31.3	—	—	46.8	—	—	0.6	—	—
Northrup King PX 50 (2X)	31.3	—	—	56.3	—	—	0.0	—	—
United Hagie 1XL6 (2X)	31.8	—	—	48.6	—	—	1.3	—	—
DeKalb XL 342 (3X)	32.0	—	—	56.2	—	—	0.6	—	—
Northrup King KM 567	32.0	35	36	61.7	60	58	4.6	4	3
DeKalb 427	32.0	34	34	52.1	62	64	0.7	2	1
DeKalb 441A	32.2	—	—	62.3	—	—	1.4	—	—
Michigan 570	32.3	34	34	59.2	62	59	3.9	5	5
Crib Filler 40 (2X)	32.4	—	—	59.4	—	—	3.2	—	—
Michigan 620	32.6	35	36	56.1	60	61	5.0	3	3
DeKalb XL 341 (3X)	33.1	35	—	49.2	56	—	2.0	1	—
United Hagie 1XL5 (2X)	33.4	—	—	57.0	—	—	0.7	—	—
Averages	29.9	32	32	59.8	61	61	2.7	3	3
Range	23.0 to 33.4	24 to 37	24 to 36	45.0 to 77.8	52 to 72	52 to 70	0.0 to 9.6	0 to 7	0 to 6

Table 4—KALAMAZOO COUNTY (Continued)

Hybrid	% Moisture		Bushels per acre		% Stalk lodging	
	2	3	2	3	2	3
	1966	1965	1966	1965	1966	1965
Least significant difference	1.8	1	1	6.8	3	3

\*Significantly better than average yield in 1966

	1966	1965	1964
Planted	May 23	May 15	May 12
Harvested	October 31	October 26	October 11
Soil type	Fox loam	Fox loam	Fox loam
Previous crop	Corn	Corn	Wheat
Population	16,800	16,100	13,100
Rows	36"	36"	36"
Fertilizer	113-53-53	93-72-72	Manure, 112-48-24
Soil test: pH	6.8	6.6	6.8
P	168 (very high)	88 (high)	67 (high)
K	341 (very high)	172 (medium)	324 (very high)

Farm Cooperator: Richard Van Vranken, Climax.  
County Agricultural Extension: Vern Hinz, Kalamazoo.

Table 5—OTTAWA COUNTY (Continued)

HYBRID	% Moisture		Bushels per acre		% Stalk Lodging	
	2	3	2	3	2	3
	1966	1965	1966	1965	1966	1965
Northrup King	32.9	31	79.6	85	4.9	2
PX 44 (2X)	—	—	—	—	—	—
Taylor-Evans Bonus-maker (2X)	33.0	—	97.5	—	2.0	—
Michigan 620	33.0	32	83.4	99	3.4	5
DeKalb XL341 (3X)	34.1	32	76.6	88	2.8	2
DeKalb 441A	35.0	34	85.9	89	0.8	1
DeKalb 441	35.8	33	82.6	98	2.7	2
Averages	29.5	28	89.0	91	3.4	5
Range	21.0 to 35.8	21 to 34	68.3 to 108.1	76 to 104	0.0 to 9.9	1 to 9
Least significant difference	1.8	1	9.5	4	4	4

\*Significantly better than average yield in 1966.

	1966	1965	1964
Planted	May 26	May 7	May 21
Harvested	November 3	October 30	October 14
Previous crop	Corn	Corn	Corn
Population	16,900	15,000	16,100
Rows	36"	36"	36"
Fertilizer	144-96-48	Manure 133-115-80	Manure 111-104-21
Soil test: pH	6.9	6.9	7.0
P	77 (high)	122 (very high)	86 (high)
K	352 (very high)	342 (very high)	256 (high)

Farm Cooperator: Marvin Patmos, Jamestown.  
County Agricultural Extension: R. J. Van Klompenberg, Grand Haven.

Table 5 Zone 2  
**SOUTH CENTRAL MICHIGAN**  
**OTTAWA COUNTY TRIAL**  
One, Two, and Three Year Averages—1966, 1965, 1964

HYBRID	% Moisture		Bushels per acre		% Stalk Lodging	
	2	3	2	3	2	3
	1966	1965	1966	1965	1966	1965
Michigan 270	21.0	21	80.4	78	7.0	8
Michigan 250	22.1	22	87.5	80	5.1	7
Michigan 300	23.7	23	76.1	83	6.1	8
Northrup King X4454 (2X)	25.2	—	86.7	—	9.9	—
Michigan 400	25.2	25	82.4	83	1.5	2
Michigan 370	25.8	25	77.4	82	4.3	4
Michigan Exp. 63-981 (3X)*	26.2	28	100.3	104	4.8	4
Northrup King PX480 (3X)	26.3	—	77.6	—	7.9	—
Northrup King PX527 (3X)*	26.4	27	103.8	93	5.3	3
Michigan 402-2X (2X)*	26.4	26	98.9	95	4.8	6
DeKalb 57	27.4	26	68.3	76	1.9	5
Michigan 430	27.6	27	88.7	88	5.2	7
Northrup King KE497	27.6	27	92.5	90	4.3	6
Cowbell 55	27.9	—	91.1	—	3.6	—
Funk Bros. G17A*	27.9	26	98.5	96	3.4	6
Michigan 500-2X (2X)*	28.0	—	106.7	—	0.0	—
Taylor Evans Exp. 6424	28.0	27	83.4	83	0.8	4
DeKalb XL45 (2X)*	28.1	29	108.0	98	3.9	4
Michigan 425	28.1	27	91.8	93	5.1	5
Cowbell HK58	28.2	—	94.5	—	2.9	—
Wolverine 66A	28.3	27	91.9	87	4.4	13
DeKalb XL325 (3X)*	28.5	28	99.0	92	0.0	1
Michigan 550	28.7	28	92.5	99	1.5	2
P.A.G. SX 36 (2X)	29.4	27	81.2	88	1.5	2
DeKalb 224	29.7	—	83.2	—	5.6	—
Pioneer 3773 (2X)	29.8	28	89.8	88	0.0	7
Taylor-Evans Profit-maker (2X)	30.0	28	93.2	91	0.7	1
Northrup King X5528 (2X)	30.6	—	94.1	—	3.8	—
Northrup King PX 50 (2X)*	31.0	—	108.1	—	5.8	—
Northrup King KM567	31.4	29	96.0	96	1.4	4
Crows 428 (2X)*	31.5	—	100.5	—	3.2	—
Crows 420 (2X)	32.0	—	83.8	—	3.4	—
DeKalb XL 342 (3X)*	32.0	—	102.1	—	2.0	—
Pioneer 371	32.1	29	80.2	92	3.7	5
DeKalb 427	32.3	32	76.0	84	2.6	6
DeKalb XL346 (3X)	32.3	32	82.2	91	4.5	3
Michigan 490	32.4	30	79.1	90	4.0	6
Michigan 570	32.4	31	84.0	86	1.6	5
DeKalb 400 (2X)*	32.7	30	99.6	104	0.7	3

Table 6 Zone 2  
**SOUTH CENTRAL MICHIGAN**  
**SHIAWASSEE COUNTY TRIAL**  
One Year Averages—1966  
(No trials conducted in previous years)

HYBRID	% Moisture	Bushels Per Acre	% Stalk Lodging
Michigan 270	21.6	93.1	2.5
Northrup King X 4454 (2X)	22.2	97.7	3.7
Michigan 250	22.4	86.4	4.9
DeKalb XL 307 (3X)	23.1	77.1	0.6
Michigan 280	23.5	102.6	3.0
Michigan 370	24.4	102.7	4.8
Michigan 300	24.6	107.4	6.8
Northrup King PX 480 (3X)	24.7	98.6	10.7
DeKalb XL 15 (2X)	24.7	100.3	1.9
Pioneer 385	25.2	92.7	0.6
DeKalb XL 315 (3X)	25.4	89.7	1.3
P.A.G. 45	25.4	94.6	5.1
Northrup King KE 497	25.5	109.0	4.2
Funk Bros. G17A	25.7	109.3	2.4
Michigan 400	25.7	101.7	1.8
DeKalb 59	25.8	79.4	1.2
Funk Bros. G18A	25.8	105.7	1.2
Northrup King PX 527 (3X)	25.9	110.8	2.5
Tomco Genetic Giant 2600	26.0	87.5	1.2
Michigan 402-2X (2X)	26.6	111.2	0.6
Michigan 430	26.6	95.8	4.2
Wolverine 66A	26.7	94.2	2.5
Michigan 550*	26.8	127.7	2.5
Taylor-Evans Profitmaker (2X)	27.2	77.4	0.0
Taylor-Evans Exp. 6424	27.3	97.4	3.6



Table 6—SHIAWASSEE COUNTY (Continued)

HYBRID	% Moisture	Bushels Per Acre	% Stalk Lodging	Hybrid	% Moisture	Bushels Per Acre	% Stalk Lodging
Funk Bros. G 10A	27.3	96.6	4.9	Taylor-Evans Bonusmaker (2X)	31.3	97.2	1.8
Pioneer 3773 (2X)*	27.5	127.0	0.0	DeKalb 441A	31.7	91.4	3.0
Wolverine W135 (3X)	27.5	77.8	1.8	DeKalb XL 342 (3X)	31.9	97.9	1.8
Anderson A95	27.5	96.5	6.3	Northrup King KM 567	32.0	84.8	1.8
Funk Bros. G4350 (2X)	27.5	103.7	0.6	DeKalb XL 341 (3X)	32.4	100.3	0.0
Pioneer 3775 (2X)*	27.5	123.5	1.2	Average	27.5	101.4	2.6
Tomco Genetic Giant 211	27.9	107.5	0.6				
Michigan 425	28.2	110.4	2.4	Range	21.6	77.1	0.0
Northrup King X5528 (2X)*	28.6	112.7	5.5	to	32.4	128.0	10.7
DeKalb XL 325 (3X)	28.6	86.0	0.0				
Pioneer 368	28.7	102.6	3.6	Least significant difference	1.2	11.3	
Michigan Exp. 63-981 (3X)*	28.8	117.1	1.9				
P.A.G. SX 36 (2X)	29.9	84.3	1.9				
Michigan 500-2X (2X)*	29.1	128.0	1.8				
Michigan 570	29.2	105.2	4.2				
DeKalb XL 45 (2X)	29.2	110.7	0.6				
Northrup King PX 50 (2X)*	29.3	121.8	3.0				
P.A.G. 70	29.4	94.3	4.3				
P.A.G. SX49 (2X)	29.4	102.3	3.0				
Haapala SX 621 (2X)	30.5	111.4	1.8				
Northrup King PX 44 (2X)	30.5	96.6	3.8				
Michigan 490	30.6	98.2	1.2				
DeKalb 427	30.6	97.7	3.0				
DeKalb XL 346	30.9	93.9	0.0				
Michigan 620	31.0	99.8	3.8				

\*Significantly better than average yield in 1966.

Planted—May 23  
Soil Type—Brookston  
Population—17,600Harvested—October 29  
Previous crop—Beans  
Rows—36"

Fertilizer—174-96-164

Soil test: pH=6.7, P=57 (high), K=255 (high)

Farm Cooperator—Ward Perry, Route 2, Durand.  
County Agricultural Extension—W. C. Search, Corunna.

Table 7

## SOUTH CENTRAL MICHIGAN

Zone 2

## GRAIN—INGHAM COUNTY TRIAL

One, Two, and Three Year Averages—1966, 1965, 1964

HYBRID	% Moisture			Bushels Per Acre						% Stalk Lodging					
				1966		2 yrs.		3 yrs.		1966		2 yrs.		3 yrs.	
	1966	2 yrs.	3 yrs.	17200	21100	16300	20400	16500	20800	17200	21100	16300	20400	16500	20800
Michigan 270	25.0	28	29	89.7	87.7	63	63	67	69	6.3	8.5	4	8	5	9
Pioneer 3862	26.0	—	—	83.8	75.1	—	—	—	—	9.1	7.2	—	—	—	—
Michigan 250	27.1	30	30	94.4	89.4	69	69	72	71	2.0	6.9	1	7	3	6
United Hagie 3H11 (3X)	27.2	—	—	60.0	64.1	—	—	—	—	18.9	17.6	—	—	—	—
Michigan 280	28.2	—	—	92.1	94.5	—	—	—	—	4.5	2.2	—	—	—	—
Michigan 300	28.5	31	30	88.2	83.3	62	61	66	70	2.9	6.0	1	3	3	4
DeKalb XL 304 (3X)	28.6	—	—	95.0	83.5	—	—	—	—	2.8	12.2	—	—	—	—
Michigan 370	28.7	32	32	96.8	100.6	67	73	74	77	1.4	2.9	1	2	2	3
United Hagie SX 127A (2X)	28.7	—	—	88.0	93.0	—	—	—	—	0.0	5.3	—	—	—	—
P.A.G. SX48 (2X)	29.1	—	—	108.7	105.4	—	—	—	—	0.7	4.5	—	—	—	—
DeKalb XL 315 (3X)	30.3	—	—	97.0	92.7	—	—	—	—	1.4	2.4	—	—	—	—
Funk Bros. G 17 A	30.4	33	33	106.8	105.5	78	76	85	76	1.6	0.0	1	2	1	2
Northrup King PX 480	30.6	—	—	94.9	86.8	—	—	—	—	2.8	7.4	—	—	—	—
Michigan 400	30.7	33	33	105.8	100.3	75	73	79	75	1.3	1.6	1	1	1	2
DeKalb XL 15 (2X)	30.8	—	—	97.7	73.4	—	—	—	—	6.0	9.6	—	—	—	—
P.A.G. 62	31.1	34	34	94.0	100.9	65	68	70	65	0.7	4.3	1	2	2	2
Pioneer 385	31.2	—	—	94.2	88.6	—	—	—	—	1.9	5.9	—	—	—	—
Michigan 402-2X (2X) <sup>1, 2</sup>	31.5	34	34	119.2	123.8	89	90	88	87	0.0	1.1	0	1	0	2
Northrup King PX 527 (3X)	31.7	35	—	92.0	97.8	65	71	—	—	2.0	3.5	1	2	—	—
Blaney B 500 (2X) <sup>2</sup>	31.8	34	—	100.5	109.7	76	77	—	—	2.1	1.8	1	1	—	—
Michigan 425	31.9	35	34	102.6	98.7	72	72	78	74	0.0	0.0	1	2	2	2
Taylor-Evans Profitmaker (2X)	32.0	35	—	93.9	85.7	72	63	—	—	0.0	1.0	0	4	—	—
Muncy Chief H 304	32.2	35	—	106.9	104.7	76	70	—	—	2.6	1.9	4	4	—	—
Muncy Chief SX440 (2X)	32.7	—	—	102.7	85.8	—	—	—	—	0.0	1.8	—	—	—	—
Northrup King KE 497 <sup>2</sup>	32.7	35	35	101.0	114.5	73	77	73	75	3.7	6.0	2	6	2	2
Pioneer 3775 (2X) <sup>1, 2</sup>	32.9	38	—	126.9	117.9	84	83	—	—	0.0	3.5	0	2	—	—
Taylor-Evans Exp. 6424	33.0	34	—	82.2	86.7	62	63	—	—	0.0	1.9	0	2	—	—
Haapala SX 410 (2X)	33.1	—	—	99.3	102.2	—	—	—	—	2.6	0.7	—	—	—	—
Northrup King X4454 (2X)	33.3	—	—	89.3	94.0	—	—	—	—	4.4	6.6	—	—	—	—
Michigan 430	33.4	35	34	99.2	97.4	71	72	76	76	2.5	2.1	1	2	2	2

Table 7—GRAIN—INGHAM COUNTY (Continued)

HYBRID	% Moisture			Bushels Per Acre						% Stalk Lodging					
	1966	2 yrs.	3 yrs.	1966		2 yrs.		3 yrs.		1966		2 yrs.		3 yrs.	
				17200	21100	16300	20400	16500	20800	17200	21100	16300	20400	16500	20800
Wolverine 66A	33.6	—	—	96.5	83.3	—	—	—	—	1.4	4.2	—	—	—	—
Blaney B6606A (2X) <sup>1, 2</sup>	33.7	—	—	129.8	130.7	—	—	—	—	1.2	1.0	—	—	—	—
Blaney 6623 (3X)	33.8	—	—	106.9	100.9	—	—	—	—	0.0	0.6	—	—	—	—
Michigan 550	33.9	36	36	109.9	105.0	83	80	87	85	0.0	1.9	0	1	0	1
Muncy Chief H306	34.0	36	—	83.6	85.7	65	62	—	—	2.0	1.8	1	2	—	—
Michigan 500-2X (2X) <sup>1, 2</sup>	34.0	—	—	126.4	138.5	—	—	—	—	0.7	0.0	—	—	—	—
DeKalb XL 325 (3X)	34.0	36	36	99.2	98.8	74	76	79	80	2.0	0.5	1	1	2	2
Pioneer 368	34.1	36	36	94.8	83.3	71	67	70	64	0.7	2.7	1	2	3	2
DeKalb XL 45 (2X)	34.1	38	38	111.2	101.0	83	72	84	74	0.0	0.5	0	1	0	1
Northrup King X 5528 (2X) <sup>2</sup>	34.1	—	—	109.0	112.4	—	—	—	—	2.4	1.6	—	—	—	—
Haapala SX626 (2X) <sup>1, 2</sup>	34.3	—	—	122.0	131.6	—	—	—	—	2.2	0.0	—	—	—	—
DeKalb XT 218 <sup>2</sup>	34.5	—	—	100.8	108.2	—	—	—	—	0.8	0.0	—	—	—	—
Supercrost 2570	34.7	38	38	102.4	98.6	73	74	77	76	2.2	2.3	1	1	2	2
Blaney B 6616 (3X) <sup>1</sup>	34.7	—	—	112.6	106.2	—	—	—	—	0.0	1.0	—	—	—	—
P.A.G. SX 49 (2X)	35.0	40	—	98.0	91.5	69	67	—	—	0.0	1.0	0	1	—	—
Pioneer 3773 (2X) <sup>1, 2</sup>	35.2	36	—	127.9	114.6	89	83	—	—	0.8	0.5	1	1	—	—
Supercrost S 30 A (2X) <sup>1, 2</sup>	35.3	—	—	124.3	125.0	—	—	—	—	1.3	2.6	—	—	—	—
Cowbell 112 SX (2X)	35.5	—	—	101.2	103.4	—	—	—	—	0.7	1.0	—	—	—	—
Northrup King PX 44 (2X) <sup>1</sup>	35.6	37	—	116.6	102.6	78	74	—	—	2.2	0.6	1	0	—	—
Blaney B 800 E (2X)	35.7	37	—	93.8	91.2	71	71	—	—	0.0	0.6	0	1	—	—
Michigan Exp. 63-981 (3X) <sup>1, 2</sup>	35.8	—	—	123.8	115.6	—	—	—	—	2.7	1.8	—	—	—	—
DeKalb 224	36.0	—	—	84.9	91.0	—	—	—	—	2.1	2.8	—	—	—	—
Blaney B 661 (3X)	36.1	—	—	100.8	93.0	—	—	—	—	0.7	0.0	—	—	—	—
Blaney B 600 (2X)	36.2	39	—	93.8	94.2	69	73	—	—	0.7	0.6	0	3	—	—
Supercrost 337	36.3	39	38	95.6	82.8	62	57	64	57	1.7	1.1	1	1	2	3
DeKalb 427	36.4	38	38	98.9	94.3	73	70	78	68	0.8	1.6	0	1	2	2
Muncy Chief SX660 (2X)	36.4	39	—	94.1	77.6	69	56	—	—	0.0	0.0	0	1	—	—
Pioneer 371	36.4	38	38	104.4	94.6	69	65	77	69	0.7	2.3	1	1	2	2
Muncy Chief H 420	36.5	39	—	88.6	69.4	60	53	—	—	0.0	1.2	0	2	—	—
Northrup King PX 50 (2X) <sup>1, 2</sup>	37.3	—	—	118.4	108.2	—	—	—	—	0.7	0.5	—	—	—	—
Muncy Chief H 630	38.0	40	—	82.7	71.1	59	54	—	—	0.0	2.0	0	1	—	—
Blaney B 771 (3X)	38.0	—	—	107.9	98.5	—	—	—	—	0.7	2.0	—	—	—	—
Supercrost S 2581 (2X)	38.3	40	—	99.9	83.3	74	64	—	—	0.0	1.7	0	1	—	—
Muncy Chief SX550 (2X)	38.5	—	—	86.5	86.2	—	—	—	—	0.6	1.2	—	—	—	—
Wolverine W 175 (2X)	38.5	—	—	103.2	96.4	—	—	—	—	1.5	2.1	—	—	—	—
Michigan 570	38.7	39	38	102.7	94.9	72	71	75	70	0.7	3.0	0	3	2	2
Taylor-Evans Bonusmaker (2X)	39.1	—	—	101.9	88.3	—	—	—	—	0.0	3.4	—	—	—	—
Blaney B700 (2X)	39.2	—	—	98.0	85.3	—	—	—	—	0.0	0.0	—	—	—	—
Michigan 620	39.8	41	40	104.3	92.1	74	71	79	78	0.0	3.8	0	3	0	3
DeKalb 414	39.8	—	—	89.3	69.2	—	—	—	—	0.0	3.2	—	—	—	—
Northrup King KM 567	40.0	39	38	89.2	98.6	71	79	79	82	0.7	2.4	0	1	1	5
Muncy Chief SX 770 (2X)	40.1	43	—	63.9	64.7	47	48	—	—	0.7	1.1	0	1	—	—
Michigan 490	40.2	40	39	110.8	96.7	76	70	78	65	0.0	2.5	2	1	2	2
Blaney B 801 (2X)	40.4	—	—	89.7	75.5	—	—	—	—	0.8	0.0	—	—	—	—
DeKalb 441	40.5	41	41	90.1	73.8	66	56	64	51	0.0	2.2	0	1	2	2
Average	34.3	37	35	100.1	95.6	71	70	76	72	1.5	2.7	8	2	2	3
Range	25.0 to 40.5	28 to 43	29 to 41	60.0 to 129.8	64.1 to 138.5	47 to 89	48 to 90	64 to 88	51 to 86	0.0 to 18.9	0.0 to 17.6	0 to 4	0 to 8	0 to 5	1 to 9
Least significant differences	1.8	1	1	11.7	11.3	4	4	4	4						

1 = Significantly better than average yield at 17,200 population in 1966.  
2 = Significantly better than average yield at 21,100 population in 1966.

1966  
Planted May 21  
Harvested October 12  
Soil type Conover clay loam  
Previous crop Corn  
Population 17,200 and 21,100  
Rows 36"  
Fertilizer 17,200 = 150-60-210  
21,100 = 245-175-325  
6.3  
Soil test: pH 6.3 (high)  
P 293 (high)  
K

1965  
Planted May 5  
Harvested October 12  
Soil type Conover clay loam  
Previous crop Corn  
Population 15,400 and 19,600  
Rows 36"  
Fertilizer 15,400 = 140-80-190  
19,600 = 410-270-360  
6.7  
Soil test: pH 5.1 (high)  
P 205 (high)  
K

1964  
Planted May 5  
Harvested October 1  
Soil type Conover clay loam  
Previous crop Corn  
Population 17,000 and 21,800  
Rows 36"  
Fertilizer 17,000 = 170-50-50  
21,800 = 290-50-50  
6.5  
Soil test: pH 4.5 (high)  
P 156 (high)  
K

Farm Cooperator: Michigan State University, East Lansing



Table 9—(MUCK SOIL) CLINTON COUNTY (Continued)

Hybrid	% Moisture		Bushels per acre		% Stalk lodging	
	2	3	2	3	1966 yrs. yrs.	
	1966	yrs. yrs.	1966	yrs. yrs.	2	3
Taylor-Evans Bonus-maker (2X)*	31.7	—	108.1	—	0.6	—
DeKalb 400 (2X)	32.1	—	88.1	—	3.2	—
Pioneer 371*	32.2	39	101.6	66	0.7	3
Michigan 490	32.8	39	94.3	65	7.4	7
DeKalb XL 341 (3X)	33.1	—	93.4	—	0.7	—
Supercroft S 30A (2X)*	33.3	—	103.5	—	2.3	—
Average	27.7	35	88.1	62	1.7	4
Range	22.0	28	62.7	41	0.0	1
	to	to	to	to	to	to
	33.3	39	114.0	75	8.1	10
Least significant difference	1.5	1	9.5	4		

	1966	1965	1964
Planted	May 17	May 20	May 19
Harvested	October 20	October 13	October 30
Previous crop	Corn	Corn	Corn
Population	16,800	15,700	16,300
Fertilizer	23-90-90	25-100-100	19-38-76

Cooperator: Robert Gillespie, MSU Muck Soil Experimental Farm, Laingsburg

Table 10 Zone 3

## NORTH CENTRAL MICHIGAN

## SANILAC COUNTY TRIAL

Two and Three Year Averages—1963, 1964, 1965

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging	
	2	3	2	3	2	3
	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.
A.E.S. 202	26	26	72	69	8	5
Michigan 270	28	28	85	88	6	5
Michigan 250	29	29	81	82	8	6
Pioneer 388	30	31	84	86	8	6
Jacques 900 J	30	—	83	—	5	—

Table 11

## NORTH CENTRAL MICHIGAN

## SAGINAW COUNTY TRIAL

One, Two, and Three Year Averages—1966, 1965, 1964

Hybrid	% Moisture			Bushels Per Acre						% Stalk Lodging					
				1966		2 yrs.		3 yrs.		1966		2 yrs.		3 yrs.	
	1966	2 yrs.	3 yrs.	16500	20800	15900	20000	15600	20100	16500	20800	15900	20000	15600	20100
Michigan 270	19.7	20	20	57.5	56.9	60	62	59	59	3.3	5.5	5	5	8	7
United Hagie 3H11 (3X)	20.4	—	—	48.4	45.3	—	—	—	—	2.2	2.9	—	—	—	—
Blaney 6604 (3X)	21.3	—	—	57.6	45.2	—	—	—	—	0.0	1.2	—	—	—	—
United Hagie SX108 (2X)	22.5	—	—	43.9	38.8	—	—	—	—	0.0	0.7	—	—	—	—
Michigan 250	22.7	22	22	56.8	53.9	63	62	60	59	1.4	8.0	2	5	5	9
Pioneer 388	23.6	23	—	53.2	46.3	58	52	—	—	0.6	1.1	0	2	0	0
DeKalb XL304 (3X)	23.6	—	—	63.8	60.2	—	—	—	—	10.0	3.9	—	—	—	—
Michigan 300	23.6	23	23	61.7	55.5	63	62	59	56	5.9	8.6	5	5	7	5
Northrup King KE 449	23.6	—	—	52.7	48.5	—	—	—	—	12.9	15.8	—	—	—	—
DeKalb XL 306 (3X)	23.7	—	—	62.6	60.7	—	—	—	—	2.5	6.0	—	—	—	—
United Hagie SX127A (2X) <sup>2</sup>	23.7	—	—	62.3	64.2	—	—	—	—	0.0	3.4	—	—	—	—
Michigan 280	24.1	—	—	62.9	59.5	—	—	—	—	6.3	5.0	—	—	—	—
Pioneer 381 A	24.1	25	26	58.3	49.3	60	58	59	57	1.2	4.1	1	3	5	4
Blaney B441 <sup>1, 2</sup>	24.1	—	—	72.2	65.9	—	—	—	—	0.6	2.1	—	—	—	—
Blaney B 300 (2X)	24.3	—	—	62.7	55.0	—	—	—	—	0.0	1.4	—	—	—	—

Table 10—SANILAC COUNTY (Continued)

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging	
	2	3	2	3	2	3
	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.
Michigan 300	30	30	88	86	5	3
Funk Bros. G 11 A	32	33	84	86	8	6
Michigan 370	32	33	90	88	7	5
DeKalb 58	33	—	81	—	13	—
Northrup King PX 487 (3X)	33	34	92	91	6	5
DeKalb 57	33	35	86	87	5	3
Northrup King KE 471	33	33	73	78	7	5
DeKalb XL 15 (2X)	34	—	95	—	3	—
Wolverine 46A	34	33	85	85	4	3
Northrup King PX 481 (3X)	34	34	81	78	6	4
P.A.G. 45	34	35	93	91	4	3
Supercroft 2610	35	—	90	—	2	—
Pioneer 383	35	—	89	—	10	—
Pioneer 3658	35	—	87	—	6	—
Michigan 402-2X (2X)	35	—	98	—	5	—
Michigan 400	35	35	92	91	4	2
P.A.G. 62	35	—	86	—	6	—
Funk Bros. G 17 A	36	—	98	—	7	—
Michigan 550	36	37	90	87	3	2
P.A.G. SX 36 (3X)	37	38	79	77	3	2
Michigan 430	37	37	80	81	8	6
Michigan 425	37	37	91	90	5	4
Northrup King KE 497	38	38	86	86	3	2
DeKalb XL 325 (3X)	39	39	83	84	2	2
Michigan 570	41	40	77	80	6	4
Michigan 490	41	40	82	81	4	3
DeKalb 400 (2X)	41	41	86	85	2	1
Average	34	34	86	84	6	4
Range	26	26	72	69	2	1
	to	to	to	to	to	to
	41	41	98	91	13	6

	1963	1964	1965
Planted	May 14	May 11	May 18
Harvested	October 21	October 25	November 6
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	17,000	17,000	17,500
Fertilizer	110-80-80	98-94-47	99-55-55
Soil test: pH	7.2	6.5	6.1
P	8 (low)	33 (medium)	32 (medium)
K	60 (low)	172 (high)	156 (medium)

Farm Cooperator: Orville Orchard, Applegate.  
County Extension Agent, Agriculture: Keith Sowerby, Sandusky.

Zone 3

Table 11—SAGINAW COUNTY (Continued)

Hybrid	% Moisture			Bushels Per Acre						% Stalk Lodging					
				1966		2 yrs.		3 yrs.		1966		2 yrs.		3 yrs.	
	1966	2 yrs.	3 yrs.	16500	20800	15900	20000	15600	20100	16500	20800	15900	20000	15600	20100
DeKalb XL 307 (3X)	24.3	23	—	58.5	60.9	57	63	—	—	1.5	1.7	1	1	—	—
Funk Bros. G4287 (3X)	24.3	—	—	68.1	52.0	—	—	—	—	2.8	4.0	—	—	—	—
Funk Bros. G 18A	24.3	24	—	61.5	54.1	66	65	—	—	0.7	6.4	1	4	—	—
Northrup King PX481 (3X)	24.4	—	—	50.3	50.8	—	—	—	—	5.3	6.8	—	—	—	—
Blaney 6605	24.5	—	—	49.0	43.1	—	—	—	—	1.4	7.1	—	—	—	—
Northrup King KE 471	24.6	25	—	58.1	48.4	62	57	—	—	10.6	16.0	7	11	—	—
Michigan 402-2X (2X) <sup>1</sup>	24.8	24	25	69.9	60.1	74	73	72	67	0.0	1.3	0	1	1	0
P.A.G. SX 22 (2X)	24.8	23	—	40.5	42.8	57	57	—	—	0.7	12.1	1	7	—	—
Michigan 370 <sup>a</sup>	25.1	24	25	65.1	65.3	68	69	66	64	0.8	2.8	0	2	1	2
Wolverine W137 (2X)	25.1	—	—	57.6	56.2	—	—	—	—	1.1	0.8	—	—	—	—
Northrup King PX480 (3X)	25.2	—	—	41.6	40.7	—	—	—	—	2.7	20.6	—	—	—	—
Michigan 400	25.5	25	25	61.5	61.6	70	69	67	65	1.6	5.4	1	5	3	4
Funk Bros. G4350 (2X) <sup>1</sup>	25.5	—	—	74.7	56.0	—	—	—	—	0.7	1.2	—	—	—	—
Taylor-Evans Profitmaker (2X) <sup>2</sup>	26.0	26	—	66.0	63.1	67	65	—	—	0.7	8.8	1	5	—	—
DeKalb XL15 (2X)	26.2	25	25	54.7	50.6	64	52	57	52	8.1	16.9	5	9	5	9
Michigan 430	26.3	25	26	68.8	57.3	69	63	63	57	2.6	6.3	3	5	7	5
Northrup King KE497	26.3	25	26	66.6	55.4	69	65	65	59	5.2	6.1	3	4	4	4
Northrup King PX487 (3X)	26.3	26	26	52.0	39.3	55	52	53	48	3.9	12.5	4	7	4	10
Michigan 550 <sup>2</sup>	26.3	26	26	71.0	58.6	73	66	71	61	0.8	2.2	1	3	1	2
Michigan 425 <sup>2</sup>	26.4	25	27	67.8	70.6	69	69	69	63	3.4	4.7	3	3	5	5
Blaney B 550 (3X)	26.4	—	—	50.5	40.6	—	—	—	—	0.0	2.3	—	—	—	—
DeKalb XL 315 (3X) <sup>2</sup>	26.4	25	—	69.0	64.1	72	62	—	—	4.8	3.4	2	2	—	—
Muncy Chief SX 440 (2X) <sup>1</sup>	26.5	—	—	81.3	56.3	—	—	—	—	0.8	5.6	—	—	—	—
Wolverine W 135 (2X)	26.6	26	25	53.5	58.1	58	61	59	64	0.7	1.1	3	2	4	5
Blaney B500 (2X)	26.7	—	—	67.4	60.5	—	—	—	—	1.2	4.1	—	—	—	—
DeKalb 224 <sup>1</sup>	26.7	—	—	72.4	55.2	—	—	—	—	4.4	5.1	—	—	—	—
Northrup King PX527 (3X) <sup>1, 2</sup>	26.8	25	—	73.8	71.2	75	68	—	—	1.9	6.9	1	5	—	—
Muncy Chief H 306	26.9	26	—	43.5	48.7	53	59	—	—	0.0	5.6	2	3	—	—
Pioneer 3658	27.1	26	—	66.3	48.5	68	62	—	—	2.8	2.7	2	2	—	—
Pioneer 3773 (2X)	27.3	—	—	50.3	45.8	—	—	—	—	0.0	0.6	—	—	—	—
Wolverine 61 <sup>2</sup>	27.4	—	—	62.3	65.5	—	—	—	—	3.5	6.5	—	—	—	—
Pioneer 368	27.5	26	—	57.5	49.4	69	66	—	—	1.2	4.2	1	2	—	—
DeKalb XL 325 (3X) <sup>1, 2</sup>	27.8	26	27	71.0	68.0	73	73	72	66	1.8	1.6	1	2	1	2
Pioneer 3775 (2X)	27.9	—	—	67.9	48.4	—	—	—	—	0.0	2.2	—	—	—	—
Supercroft S2581 (2X)	28.1	27	—	67.3	57.4	69	66	—	—	2.0	25.4	1	15	—	—
Blaney B 600 (2X)	28.2	—	—	69.2	57.0	—	—	—	—	1.6	2.7	—	—	—	—
Northrup King KM 555	28.3	27	28	55.4	52.6	59	63	56	54	2.1	9.0	2	5	3	6
P.A.G. 70 <sup>1</sup>	28.6	28	28	71.2	57.2	66	62	63	60	1.5	3.9	2	3	4	4
Blaney 6606A (2X)	28.7	—	—	68.5	50.8	—	—	—	—	1.3	3.0	—	—	—	—
Pioneer 371	28.7	28	29	60.7	61.2	67	66	64	64	0.7	1.7	0	2	2	2
Michigan 500-2X (2X) <sup>1, 2</sup>	28.8	—	—	80.8	83.2	—	—	—	—	0.8	1.7	—	—	—	—
Muncy Chief SX550 (2X)	29.0	—	—	56.8	53.1	—	—	—	—	0.0	6.1	—	—	—	—
DeKalb XT 218 <sup>1</sup>	29.1	—	—	80.9	61.5	—	—	—	—	0.0	8.9	—	—	—	—
Michigan 570	29.2	30	29	62.3	53.6	65	64	66	58	7.7	3.3	5	3	7	6
DeKalb XL 45 (2X) <sup>1, 2</sup>	29.6	28	29	78.1	67.6	74	68	74	67	1.3	1.2	0	1	1	2
Michigan Exp. 63-981 (3X)	29.9	28	—	65.9	61.5	74	75	—	—	2.1	5.3	1	3	—	—
Muncy Chief H 630	29.9	30	—	57.6	41.5	56	46	—	—	2.5	17.2	2	10	—	—
DeKalb 409 <sup>1</sup>	29.9	29	29	74.9	48.5	71	54	68	57	1.9	15.5	2	10	5	11
Supercroft 2570 <sup>1, 2</sup>	30.0	28	28	70.0	64.9	77	70	71	67	3.1	10.5	2	6	5	7
DeKalb 400 (2X) <sup>1</sup>	30.0	28	28	70.0	51.8	75	64	73	62	0.7	0.5	0	0	1	1
Wolverine 69 <sup>1</sup>	30.0	30	—	75.5	49.1	64	55	—	—	0.8	4.5	1	2	—	—
Northrup King KM 567	30.3	—	—	56.7	39.5	—	—	—	—	0.0	4.9	—	—	—	—
Northrup King PX44 (2X) <sup>1, 2</sup>	30.6	28	—	81.0	69.4	77	74	—	—	0.6	0.5	1	0	—	—
Michigan 490	30.6	30	30	62.4	58.4	65	64	68	63	0.0	2.9	1	1	3	2
Funk Bros. G4390 (3X)	30.7	29	—	61.4	57.9	62	64	—	—	5.6	5.9	3	4	—	—
Michigan 620	30.9	31	31	61.8	50.0	68	59	64	55	1.0	0.0	1	1	3	4
Muncy Chief SX660 (2X)	31.4	30	—	49.6	55.8	62	68	—	—	2.0	0.7	1	1	—	—
Averages	26.7	26	27	62.5	55.5	67	64	65	61	2.5	6.1	2	4	4	5
Range	19.7 to 31.4	20 to 31	20 to 31	40.5 to 81.3	38.8 to 83.2	53 to 77	46 to 75	53 to 74	48 to 67	0.0 to 12.9	0.0 to 25.4	0 to 7	0 to 15	1 to 8	0 to 11
Least significant difference	1.3	1	1	7.0	6.7	3	3	3	3						

1 = Significantly better than average yield at 16,500 population in 1966.  
 2 = Significantly better than average yield at 20,800 population in 1966.

	1966	1965	1964
Planted	May 5	May 5-6	May 4
Harvested	October 23	November 1	October 20
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Rows	36"	36"	36"
Populations	16,500 and 20,800	15,300 and 19,100	15,000 and 20,300
Fertilizer	21-84-42	114-56-28	213-262-72
Soil test: pH	7.1	7.0	7.2
P	71 (high)	45 (high)	Medium
K	259 (high)	160 (medium)	Medium high

Farm Cooperators: Walter Reinhold and Sons, Reese  
 County Agricultural Extension: Ray Vasold, Saginaw

Table 12

Zone 3

**NORTH CENTRAL MICHIGAN**

GRAIN—HURON COUNTY TRIAL

One Year Averages—1966

(No trials conducted in previous years)

Hybrid	% Moisture	Bushels Per Acre	% Stalk Lodging
Michigan 270	22.9	68.0	13.6
DeKalb XL 306 (3X)*	23.2	74.5	13.9
Seneca 155	23.3	48.0	11.1
P.A.G. 41*	23.7	86.9	14.6
Green Belt 31	23.9	54.6	11.8
P.A.G. SX 48 (2X)	24.3	66.1	9.0
Michigan 250	24.4	58.4	8.3
DeKalb XL 307 (3X)	24.4	34.1	3.2
Green Belt 41	24.6	53.4	14.6
Michigan 280	24.7	64.3	15.8
Michigan 300	25.2	65.9	11.4
Green Belt 34	25.3	66.8	3.7
Wolverine 39*	25.5	71.4	5.7
Wolverine 59	25.6	60.6	9.1
P.A.G. SX 22 (2X)	25.6	70.4	16.6
Northrup King KE 471	26.2	58.4	20.1
Funk Bros. G 10A	26.3	54.3	7.9
Northrup King KE 477*	26.4	75.7	15.6
P.A.G. 45	26.7	56.1	10.3
Michigan 370*	26.7	72.9	9.5
Michigan 400	26.8	67.4	3.3
Funk Bros. G 17A	26.9	70.2	10.3
Funk Bros. G 18A	27.0	68.2	13.3
DeKalb XL 304 (3X)*	27.0	71.7	11.1
Green Belt 72A*	27.0	74.5	15.9
Michigan 402-2X (2X)*	27.1	74.4	5.8
Pioneer 3675	27.2	40.1	7.7
Green Belt 40	27.2	54.2	7.2
Northrup King PX 527 (3X)	27.3	66.6	1.9
Michigan 425*	27.5	80.7	5.3
DeKalb XL 315 (3X)	27.9	59.1	5.1
DeKalb XL 15 (2X)	28.0	47.2	17.4
DeKalb 59	28.1	44.4	12.8
Michigan 430	28.1	70.9	14.1
Northrup King KE 497	28.3	70.0	24.1
Northrup King PX 480 (3X)	28.4	54.0	22.6
Pioneer 383	28.4	52.6	25.2
Northrup King KE 449	28.6	42.6	19.2
Green Belt 95*	28.7	79.1	10.4
Northrup King PX 44 (2X)*	29.1	81.0	5.2
Michigan 550*	29.0	71.9	2.0
Michigan Exp. 63-981 (3X)*	29.1	75.3	5.2
Pioneer 3658	29.4	60.5	5.2
Wolverine 46A	29.5	51.6	10.3
DeKalb XT 218	29.7	62.4	13.9
P.A.G. 70	29.7	52.9	9.8
Taylor-Evans Profitmaker (2X)	29.7	56.2	11.9
Michigan 570*	30.1	77.7	12.2
Michigan 500-2X (2X)*	30.1	87.6	1.9
Green Belt SX 44 (2X)*	30.1	76.0	6.5
DeKalb XL 45 (2X)*	30.3	72.1	2.6
Pioneer 3773 (2X)	31.4	61.9	5.2
Michigan 490	33.7	69.7	7.1
Average	27.0	64.5	10.4
Range	22.9 to 33.7	34.1 to 87.6	1.9 to 25.2
Least significant difference	1.4	6.9	

\*Significantly better than average yield in 1966.

Planted — May 3  
 Soil Type — Brookston  
 Population — 17,500  
 Fertilizer — 128-112-56  
 Soil test — pH = 7.4, P = 63 (high), K = 186 (high)  
 Farm Cooperator: William McCrea, Bad Axe  
 County Agricultural Extension: Lee Warschewsky, Bad Axe

Table 13

Zone 3

**NORTH CENTRAL MICHIGAN**

SILAGE—HURON COUNTY TRIAL

One Year Averages—1966

(No trials conducted in previous years)

Hybrid	% Moisture In Ears	Tons Per Acre		% Ears In Dry Weight
		Green Wt.	Dry Wt.	
Seneca 155	32.2	12.8	6.0	45.6
Michigan 270	32.4	11.5	6.0	49.8
Green Belt 31	33.6	10.7	5.5	51.0
Northrup King KE 449	35.5	10.6	5.0	55.8
Wolverine 39	35.7	11.1	5.4	43.3
Michigan 280	35.7	12.7	6.5	46.4
Green Belt 41	36.0	11.0	5.1	47.3
DeKalb XL 307 (3X)	36.1	9.7	4.6	38.7
DeKalb XL 304 (3X)	36.1	12.2	6.0	46.9
Michigan 250	36.2	12.1	5.7	42.8
P.A.G. SX 48 (2X)	36.2	12.8	6.0	41.2
Northrup King KE 471	36.4	11.3	5.5	42.9
P.A.G. 41	37.2	13.1	5.9	47.6
Michigan 300	38.2	12.8	6.0	49.2
Green Belt 40	38.1	10.3	4.8	46.7
Michigan 400	38.3	14.8	7.0	49.3
P.A.G. SX 22 (2X)	38.3	12.6	6.0	48.8
Green Belt 34	38.4	10.5	4.8	36.5
DeKalb XL 15 (2X)	38.4	12.2	5.2	41.2
Funk Bros. G 17A	38.4	15.8	7.3	41.8
Northrup King KE477	38.7	10.7	5.2	49.1
Michigan 402-2X (2X)	39.5	14.8	6.9	49.8
DeKalb 59	39.8	12.0	5.3	40.6
Michigan 370	39.8	12.9	6.0	45.8
DeKalb XL 306 (3X)	39.9	15.7	7.3	40.7
Wolverine 46A	39.9	11.2	4.8	40.0
Northrup King PX 527 (3X)	40.1	13.7	6.3	44.1
Northrup King PX 480 (3X)	40.1	14.0	6.1	43.5
Funk Bros. G 18 A	40.3	14.4	6.2	45.7
Funk Bros G 10 A	40.4	12.7	5.4	44.5
Wolverine 59	40.4	12.1	5.3	48.1
Pioneer 3675	40.5	14.7	6.4	43.5
Taylor-Evans Profitmaker (2X)	40.6	11.4	5.1	46.2
Northrup King KE 497	40.7	15.1	6.6	42.3
Pioneer 383	40.9	12.3	5.0	45.2
Michigan 500-2X (2X)	41.1	15.9	7.1	49.2
P.A.G. 45	41.2	12.0	5.1	45.3
Pioneer 3773 (2X)	41.6	15.1	6.7	45.5
Green Belt SX 44 (2X)	41.7	14.9	6.6	47.3
P.A.G. 70	41.9	14.9	6.7	38.7
Michigan 430	42.0	15.1	6.6	48.6
Michigan 425	42.1	12.1	6.0	43.8
Green Belt 72A	42.2	13.9	6.3	41.0
Michigan 550	42.3	15.8	6.7	47.2
DeKalb XL 45 (2X)	42.4	15.9	6.9	45.5
Pioneer 3658	42.5	13.7	6.3	39.1
DeKalb XT 218	42.6	16.1	6.8	46.3
DeKalb XL 315 (3X)	42.9	11.7	4.9	41.1
Michigan Exp. 63-981 (3X)	43.0	16.5	7.1	44.3
Michigan 490	44.2	17.2	7.0	42.0
Green Belt 95	44.4	13.7	5.7	42.3
Michigan 570	44.8	16.7	6.9	40.5
Northrup King PX 44 (2X)	46.5	17.5	7.0	43.6
Average	39.4	13.2	6.0	44.8
Range	32.2 to 46.5	9.7 to 17.5	4.6 to 7.3	36.5 to 55.8
Least significant differences	2.4	1.0	.4	2.9

Planted — May 3  
 Soil type — Brookston  
 Population — 17,500  
 Fertilizer — 128-112-56  
 Soil test — pH = 7.4, P = 63 (high), K = 186 (high)  
 Farm Cooperator: William McCrea, Bad Axe  
 County Agricultural Extension: Lee Warschewsky, Bad Axe

Table 14

Zone 3

**NORTH CENTRAL MICHIGAN**

**NEWAGO COUNTY TRIAL**

One, Two, and Three Year Averages—1966, 1965, 1964

Hybrid	% Moisture			Bushels per acre			% Stalk Lodging		
	1966	2 yrs.	3 yrs.	1966	2 yrs.	3 yrs.	1966	2 yrs.	3 yrs.
Michigan 270	23.0	25	26	97.2	92	80	11.8	17	12
Pioneer 3862	23.7	—	—	87.6	—	—	15.7	—	—
Michigan 250	24.2	25	26	87.4	84	71	3.8	7	6
Northrup King KC6	24.3	—	—	81.0	—	—	21.9	—	—
Michigan 300	24.4	26	26	93.1	85	73	6.3	11	8
Michigan 280	24.4	—	—	102.2	—	—	3.3	—	—
P.A.G. 41	24.7	—	—	10.8	—	—	8.2	—	—
Northrup King 444	24.8	—	—	71.0	—	—	31.8	—	—
DeKalb XL 304 (3X)	24.9	27	—	87.2	90	—	15.8	17	—
Pioneer 3854	25.2	26	—	86.6	84	—	2.6	7	—
Michigan 370	25.5	27	29	90.8	83	76	9.1	10	8
DeKalb 58	25.9	27	28	78.5	77	69	23.6	20	15
P.A.G. SX48 (2X)*	26.0	—	—	109.2	—	—	7.9	—	—
Michigan 400	26.1	28	29	99.3	96	83	1.4	2	2
DeKalb XL 307 (3X)	26.1	26	—	94.1	86	—	2.0	9	—
Northrup King X4454* (2X)	26.2	—	—	98.7	—	—	7.0	—	—
DeKalb XL 306 (3X)	26.3	—	—	96.8	—	—	2.0	—	—
Michigan 402-2X (2X)*	26.4	28	30	114.8	102	85	9.6	10	9
Northrup King KE 449	26.7	29	29	78.1	72	65	7.1	13	10
Funk Bros. G4287*	26.8	—	—	116.3	—	—	4.5	—	—
Pioneer 3675*	26.8	29	—	114.6	99	—	2.0	3	—
Haapala H366A*	26.8	29	29	11.3	99	84	9.4	14	12
Michigan 430	26.9	30	31	109.0	96	79	8.1	14	12
Pioneer 3658*	27.0	30	—	122.3	104	—	10.7	7	—
Northrup King PX527 (3X)*	27.0	—	—	109.3	—	—	3.0	—	—
Pioneer 385	27.4	30	31	102.2	95	78	5.4	7	5
Michigan 425	27.5	29	31	106.3	96	80	3.1	4	3
Taylor-Evans Profit-maker (2X)*	27.6	31	—	114.8	101	—	1.9	17	—
Cowbell 905X (2X)	27.9	—	—	88.9	—	—	1.3	—	—
Tomco Genetic Giant 144	28.1	—	—	102.4	—	—	7.3	—	—
Tomco Genetic Giant 2600	28.5	—	—	90.2	—	—	7.2	—	—
Michigan 550*	28.8	31	32	128.7	109	90	3.3	5	4
DeKalb XL 325 (3X)	28.9	30	31	108.4	101	82	0.6	1	3
DeKalb XL 15 (2X)	28.9	29	30	104.9	94	81	15.7	14	11
Northrup King PX 480 (3X)	29.2	—	—	90.0	—	—	18.0	—	—
Tomco Genetic Giant 208	29.3	—	—	92.3	—	—	4.1	—	—
Funk Bros. G10A	29.3	30	30	105.6	90	74	12.5	14	12
DeKalb XL 315 (3X)	29.4	30	—	96.5	89	—	7.9	8	—
Funk Bros. G4350 (2X)	29.5	30	32	97.4	87	78	0.6	6	6
Funk Bros. G17A	29.6	31	31	95.4	91	74	8.6	15	11
Michigan 500-2X (2X)*	30.2	—	—	119.6	—	—	0.7	—	—
Haapala H135A	31.1	32	33	89.2	85	69	1.9	5	4
Funk Bros. G32	31.4	34	36	81.0	76	62	2.7	19	15
Funk Bros. G4390 (3X)*	31.5	36	35	110.3	95	79	2.6	9	6
DeKalb XT218	31.7	—	—	95.2	—	—	1.3	—	—
DeKalb XL45 (2X)*	31.7	—	—	115.2	—	—	1.3	—	—
Northrup King KE 497	31.7	33	34	90.5	83	69	3.9	6	5
DeKalb 400 (2X)*	32.0	36	34	122.4	106	88	0.6	3	3
DeKalb 224	32.9	—	—	84.8	—	—	3.1	—	—
Michigan 570	34.8	37	37	93.2	83	65	3.9	12	8
Michigan 490	36.5	38	37	88.5	80	70	2.5	8	8
DeKalb 238	37.6	39	41	87.9	83	72	1.9	2	4
Average	27.8	30	31	98.5	91	76	6.8	10	8

Hybrid	% Moisture			Bushels per acre			% Stalk Lodging		
	1966	2 yrs.	3 yrs.	1966	2 yrs.	3 yrs.	1966	2 yrs.	3 yrs.
Range	23.0 to 37.6	25 to 39	26 to 41	71.0 to 128.7	72 to 109	62 to 90	0.6 to 31.8	1 to 20	2 to 15

Least significant difference	1.5	10.6
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\*Significantly better than average yield in 1966.

	1966	1965	1964
Planted	May 21	May 19	May 20
Harvested	November 8	November 4	October 30
Soil type	Selkirk loam	Selkirk loam	Selkirk loam
Previous crop	Corn	Corn	Corn
Rows	36"	36"	36"
Population	17,500	16,700	17,100
Fertilizer	100-84-42	121-84-42	Manure and 18-70-35
Soil test: pH	7.3	7.2	6.6
P	62 (high)	23 (medium)	47 (high)
K	187 (high)	108 (low)	360 (very high)

Farm Cooperator: Ivan Norris, Hesperia (1965, 1966); Colin Graybill, Grant (1964)  
County Agricultural Extension: Lane Rushmore, Fremont

Table 15

Zone 4

**NORTHERN MICHIGAN**

**GRAIN—GRAND TRAVERSE COUNTY TRIAL**

Two and Three Year Averages—1963, 1964, 1965

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging	
	2 Yrs.	3 Yrs.	2 Yrs.	3 Yrs.	2 Yrs.	3 Yrs.
A.E.S. 202	31	27	50	48	24	16
DeKalb 29	33	28	49	49	22	15
Michigan 270	36	30	58	56	14	10
Northrup King KC 3	37	32	41	42	26	19
Michigan 300	38	33	51	48	15	10
DeKalb XL 304 (3X)	38	—	57	—	16	—
Northrup King KE 435	39	32	49	44	17	12
Funk Bros. G 31 A	39	—	54	—	28	—
Northrup King KE 449	39	—	57	—	24	—
DeKalb 45	39	33	51	49	6	5
Michigan 370	40	34	55	53	16	10
Funk Bros. G 10 A	41	—	45	—	13	—
Northrup King KE 497	41	—	50	—	14	—
Northrup King KE 471	42	—	47	—	11	—
DeKalb XL 15 (2X)	42	37	58	53	16	11
Average	39	32	48	51	17	12
Range	31 to 42	27 to 37	41 to 58	42 to 56	6 to 28	5 to 19

	1963	1964	1965
Planted	May 18	May 22	May 14
Harvested	October 29	October 28	November 16
Soil type	Emmett sandy loam	Emmett sandy loam	Emmett sandy loam
Previous crop	Alfalfa	Alfalfa	Corn
Population	16,100	14,800	17,000
Fertilizer	10-40-40	120-37-217	120-120-120
Soil test: pH	6.0	7.1	6.8
P	30 (medium)	24 (medium)	49 (high)
K	88 (low)	68 (low)	113 (low)

Farm Cooperators: Herb and Karl Wagner, Grawn.  
County Extension Agent, Agriculture: A. W. Glidden, Traverse City





**Table 19. Index for 252 hybrids entered as 1043 entries in the 1966 Michigan Corn Performance Trials. Numbers within parenthesis refer to table numbers in which the hybrid appears. (2X) indicates a single cross hybrid, (3X) indicates a three-way hybrid, and all others are double-cross hybrids.**

<i>Anderson Elevator Co., Maumee, Ohio</i>	<i>Edward J. Funk &amp; Sons, Kentland, Ind.</i>	Muncy Chief H 208 (16)	P.A.G. 41 (12, 13, 14)
Anderson A95 (6)	Supercrost S 30 A (2X) (1, 7, 8, 9)	Muncy Chief H 304 (7, 8, 16)	P.A.G. 45 (6, 9, 12, 13, 17)
Anderson A105 (1)	Supercrost 209 (2, 3)	Muncy Chief H 306 (7, 8, 11)	P.A.G. SX 48 (2X) (7, 8, 12, 13, 14)
Anderson A110A (1)	Supercrost 214 (2, 3)	Muncy Chief H 420 (7, 8)	P.A.G. SX 49 (2X) (6, 7, 8)
<i>Bayless &amp; Sons, Route 1, Bluffton, Ind.</i>	Supercrost 337 (1, 7, 8)	Muncy Chief SX 440 (2X) (7, 8, 11, 16)	P.A.G. 62 (7, 8)
Bayless SX 415 (2X) (1, 2, 3, 4)	Supercrost 441 (2, 3)	Muncy Chief SX 550 (2X) (2, 3, 7, 8, 11)	P.A.G. SX 66 (2X) (4)
Bayless SX 601 (2X) (2, 3)	Supercrost 2570 (7, 8, 11)	Muncy Chief SX 660 (2X) (2, 3, 7, 8, 11)	P.A.G. 70 (6, 11, 12, 13)
<i>Blaney Farms, Inc., Route 3, Madison, Wis.</i>	Supercrost S 2581 (2X) (7, 8, 11)	Muncy Chief SX 770 (2X) (2, 3, 7, 8)	P.A.G. 285 (1, 2, 3)
Blaney B300 (2X) (9, 11)	Supercrost 2610 (9)	Muncy Chief H 630 (2, 3, 7, 8, 11)	P.A.G. SX 310 (2X) (1)
Blaney B441 (3X) (9, 11)	Supercrost 3340 (1)		P.A.G. 313 (3X) (2, 3)
Blaney B500 (2X) (1, 7, 8, 9, 11)	Supercrost 5900 (1)	<i>Hulting</i>	<i>Pioneer Corn Co., Inc., Tipton, Ind.</i>
Blaney B550 (3X) (9, 11)	<i>Funk Bros. Seed Co., Bloomington, Ill.</i>	Hulting 243 (2, 3)	Pioneer 354 A (2, 3)
Blaney B600 (2X) (1, 7, 8, 11)	Funk Bros. G 10A (6, 9, 12, 13, 14, 16, 17)	Hulting 260 SC (2, 3)	Pioneer 368 (4, 6, 7, 8, 11)
Blaney B661 (3X) (1, 7, 8)	Funk Bros. G 17A (2, 3, 4, 5, 6, 7, 8, 9, 12, 13, 14, 17)	Hulting 480 (2, 3)	Pioneer 371 (1, 2, 3, 4, 5, 7, 8, 9, 11)
Blaney B700 (2X) (7, 8)	Funk Bros. G 18A (6, 11, 12, 13)	Hulting 482 (2, 3)	Pioneer 381 A (11)
Blaney B771 (3X) (1, 7, 8)	Funk Bros. G 32 (2, 3, 4, 14)	<i>Jacques Seed Co., Prescott, Wis.</i>	Pioneer 383 (9, 12, 13)
Blaney B 800 E (2X) (1, 7, 8)	Funk Bros. G 34 (1, 2, 3)	Jacques 851 J (17)	Pioneer 385 (6, 7, 8, 9, 14)
Blaney B 801 (2X) (7, 8)	Funk Bros. G 43 (16, 17)	<i>Michigan Hybrid Seed Co., 974 Rosewood, East Lansing, Mich.</i>	Pioneer 388 (9, 11)
Blaney 6604 (3X) (9, 11)	Funk Bros. G 44 (17)	Wolverine 39 (12, 13, 18)	Pioneer 3466 (1, 2, 3, 4)
Blaney 6605 (9, 11)	Funk Bros. G 4170 (16)	Wolverine 46 A (12, 13)	Pioneer 3658 (11, 12, 13, 14)
Blaney 6606A (2X) (1, 7, 8, 9, 11)	Funk Bros. G 4287 (3X) (11, 14)	Wolverine 59 (12, 13)	Pioneer 3675 (4, 12, 13, 14)
Blaney 6616 (3X) (1, 7, 8)	Funk Bros. G 4350 (1, 6, 11, 14)	Wolverine 61 (11)	Pioneer 3773 (2X) (5, 6, 7, 8, 9, 11, 12, 13)
Blaney 6623 (3X) (7, 8)	Funk Bros. G 4390 (11, 14)	Wolverine 66 A (5, 6, 7, 8)	Pioneer 3775 (2X) (1, 4, 6, 7, 8, 11)
<i>Cargill, Inc., Minneapolis, Minn.</i>	<i>Garno Seed Co., Deerfield, Mich.</i>	Wolverine 69 (11)	Pioneer 3854 (14)
Cargill 240 (4)	Garno S 95 (2X) (1)	Wolverine W 135 (2X) (6, 11)	Pioneer 3862 (7, 8, 14)
<i>Cowbell Seeds, Inc., Wayland, Mich.</i>	<i>Michigan Crop Improvement Association, East Lansing, Mich.</i>	Wolverine W 137 (2X) (11)	Pioneer 3872 (16, 17, 18)
Cowbell 55 (4, 5)	Michigan A.E.S. 202 (9, 16, 17, 18)	Wolverine W 175 (2X) (1, 7, 8)	<i>Pride Seed Co.</i>
Cowbell 57 (4)	Michigan 250 (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18)	Wolverine W 370 (3X) (1, 2, 3)	Pride 11 (18)
Cowbell HK 58 (5)	Michigan 270 (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18)	<i>Mitchell Farms, Windfall, Indiana</i>	<i>Robson Seed Co., Hall, New York</i>
Cowbell 90 SX (2X) (9, 14)	Michigan 280 (6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18)	Crib Filler 17 (4)	Seneca 155 (12, 13, 18)
Cowbell 112 SX (2X) (2, 3, 4, 7, 8)	Michigan 300 (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18)	Crib Filler 29 (2, 3)	<i>Simons Seed Farms, Elkhorn, Wis.</i>
<i>Crow's Hybrid Corn Co., Milford, Ill.</i>	Michigan 370 (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 16)	Crib Filler 40 (2X) (1, 2, 3, 4)	W 601 (2X) (1, 2, 3)
Crow 420 (2X) (5)	Michigan 400 (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 16)	<i>Northrup King &amp; Co., 1500 Jackson N. E., Minneapolis, Minn.</i>	<i>Taylor-Evans Seed Co., Box 480, Tulia, Texas</i>
Crow 428 (2X) (5)	Michigan 402-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 16)	Northrup King KC 3 (16, 17, 18)	Taylor-Evans Bonusmaker (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9)
<i>DeKalb Agricultural Assoc., Inc., DeKalb, Ill.</i>	Michigan 425 (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14)	Northrup King KC 6 (14, 16)	Taylor-Evans Moneymaker (3X) (1, 2, 3, 4)
DeKalb XL 15 (2X) (6, 7, 8, 11, 12, 13, 14, 16, 17, 18)	Michigan 430 (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14)	Northrup King KE 435 (16, 17, 18)	Taylor-Evans Profitmaker (2X) (5, 6, 7, 8, 9, 11, 12, 13, 14)
DeKalb 29 (17, 18)	Michigan 490 (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14)	Northrup King KE 445 (16, 17, 18)	Taylor-Evans Exp. 6424 (1, 2, 3, 4, 5, 6, 7, 8, 9)
DeKalb 45 (17)	Michigan Exp. 63-981 (3X) (1, 2, 3, 4, 5, 6, 7, 11, 12, 13)	Northrup King KE 449 (11, 12, 13, 14, 16, 17, 18)	<i>Tomco Genetic Giant Seed Co., Belmond, Iowa</i>
DeKalb XL 45 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14)	Michigan 500-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14)	Northrup King KE 471 (11, 12, 13, 16, 18)	Tomco Genetic Giant 144 (14)
DeKalb 56 (16, 17)	Michigan 550 (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14)	Northrup King KE 477 (12, 13)	Tomco Genetic Giant 208 (14)
DeKalb 57 (5, 9)	Michigan 570 (1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14)	Northrup King KE 497 (5, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18)	Tomco Genetic Giant 440 (1, 4)
DeKalb 58 (10, 14)	Michigan 620 (1, 2, 3, 4, 5, 6, 7, 8, 11)	Northrup King KM 555 (11)	Tomco Genetic Giant 2600 (14)
DeKalb 59 (6, 12, 13)	<i>Green Belt Division, Oxychem, Box 217, Bad Axe, Mich.</i>	Northrup King KM 567 (1, 2, 3, 4, 5, 6, 7, 8, 11)	<i>Todd Hybrid Corn Co., Burlington, Ind.</i>
DeKalb XL 138 (16, 17)	Green Belt 31 (12, 13)	Northrup King PX 44 (2X) (1, 2, 3, 4, 5, 6, 7, 8)	Todd M55 (2X) (2, 3)
DeKalb XT 218 (7, 8, 9, 11, 12, 13, 14, 16)	Green Belt 34 (12, 13)	Northrup King PX 52 (2X) (1, 2, 3, 4)	Todd 130A (3X) (2, 3)
DeKalb 224 (5, 7, 8, 11, 14)	Green Belt 40 (12, 13)	Northrup King PX 480 (3X) (5, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17)	Todd 240 (2, 3)
DeKalb 238 (1, 2, 3, 14)	Green Belt 41 (12, 13)	Northrup King PX 481 (3X) (11)	Todd 303 (3X) (2, 3)
DeKalb XL 301 (3X) (17)	Green Belt SX 44 (2X) (12, 13)	Northrup King PX 487 (3X) (11)	Todd 420 (2, 3)
DeKalb XL 302 (3X) (17)	Green Belt 72 A (12, 13)	Northrup King PX 527 (3X) (5, 6, 7, 8, 9, 11, 12, 13, 14)	Todd 505 A (3X) (2, 3)
DeKalb XL 304 (3X) (7, 8, 11, 12, 13, 14, 16, 17)	Green Belt 95 (12, 13)	Northrup King PX 610 (3X) (1, 2, 3, 4)	Todd Exp. M 6065 (2X) (2, 3)
DeKalb XL 306 (3X) (1, 11, 12, 13, 14, 16, 17)	<i>Levi Haapala &amp; Sons, Inc., Dassel, Minn.</i>	Northrup King PX 50 (2X) (1, 2, 3, 4, 5, 6, 7, 8)	<i>United Hagie Hybrids, Inc., 4244 Clinton Ave., Box 2007, Des Moines, Iowa</i>
DeKalb XL 307 (3X) (6, 11, 12, 13, 14, 16, 17)	Haapala H 135 A (14)	Northrup King X 4454 (2X) (5, 6, 7, 8, 9, 14, 16, 17, 18)	United Hagie IXL 5 (2X) (1, 4)
DeKalb XL 315 (3X) (6, 7, 8, 9, 11, 12, 13, 14, 16, 17)	Haapala SX 300 A (2X) (1)	Northrup King X 5528 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9)	United Hagie IXL 6 (2X) (1, 4)
DeKalb XL 325 (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 14, 16)	Haapala H 366 A (14)	<i>OYO Seed Associates, Inc., Marysville, Ohio</i>	United Hagie 3H11 (3X) (7, 8, 11)
DeKalb XL 341 (3X) (1, 2, 3, 4, 5, 6, 9, 16)	Haapala SX 410 (2X) (4, 7, 8)	OYO 130 A (1, 2, 3)	United Hagie SX 108 (2X) (11)
DeKalb XL 342 (3X) (1, 2, 3, 4, 5, 6)	Haapala SX 510 (2, 3, 7, 8)	OYO 225 (2X) (1, 2, 3)	United Hagie SX 127 A (2X) (7, 8, 11)
DeKalb XL 346 (3X) (1, 2, 3, 4, 5, 6)	Haapala SX 621 (1, 6, 9)	<i>Pfister Associated Growers, Inc., Box 470, Aurora, Ill.</i>	<i>University of Wisconsin, Madison, Wis.</i>
DeKalb XL 361 (3X) (1, 2, 3)	Haapala SX 626 (2, 3)	P.A.G. SX 9 (2X) (1, 4)	Wisconsin 273 (18)
DeKalb 400 (2X) (1, 2, 3, 4, 5, 9, 11, 14)	<i>Hoffman Seed &amp; Grain Co., Muncy, Pa.</i>	P.A.G. SX 9A (2X) (4)	Wisconsin 335A (18)
DeKalb 409 (1, 2, 3, 4, 11)	Muncy Chief H 207 (16)	P.A.G. SX 9B (2X) (2, 3)	Wisconsin 346 (18)
DeKalb 414 (2, 3, 4, 7, 8)		P.A.G. SX 22 (2X) (11, 12, 13)	Wisconsin 1709 (18)
DeKalb 415A (1)		P.A.G. 26 (17)	<i>Wyckoff Hybrids, Inc., Route 3, Valparaiso, Ind.</i>
DeKalb 427 (1, 2, 3, 4, 5, 6, 7, 8)		P.A.G. SX 31 (2X) (1, 2, 3)	Wyckoff W 5 X (2, 3, 4)
DeKalb 441 (5, 7, 8)		P.A.G. SX 36 (2X) (5, 6)	Wyckoff W 9 X (2, 3)
DeKalb 441A (2, 3, 4, 5, 6)			Wyckoff W 10 A (2, 3)
			Wyckoff W 10 X (4)