

## Michigan Corn Production

# HYBRIDS COMPARED 1969

COOPERATIVE EXTENSION  
MICHIGAN STATE UNIVERSITY

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HYBRID CORN TRIALS are conducted each year by the Michigan Experiment Station in co-operation 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:

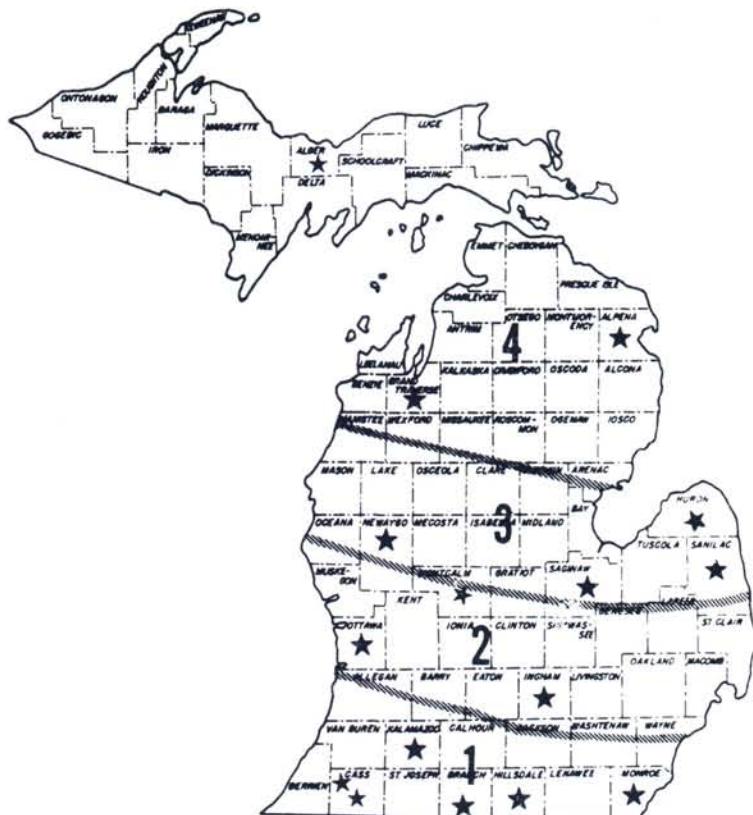
(1) Voluntary entries — All seed companies are invited each year to enter their hybrids in the trials. A fee is charged to cover some of the direct expenses.

(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 21 presents an index of all hybrids entered in the 1968 trials.

Single cross hybrids are indicated with (2X), three-way hybrids with (3X), and special cross hybrids with (Sp) following the hybrid name and number in the tables. All others are double-cross hybrids.



Corn Maturity Zones and Locations (★) of Trials

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 demonstrate 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. An equal number 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 the chance of 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, Alpena, and Alger County trials (Tables 10, 14, 19, 20).

All hybrids in the Monroe, Ingham, and Saginaw County trials were compared at two plant populations (Tables 1, 8, 12). Yields from 36", 30", and 18" row spacings for the Ingham County trial are given in Table 9.

Irrigated and non irrigated comparisons were made in the Montcalm County trial, Table 15.

There were two locations in Cass County--upland soil with irrigation, Table 5, and muck soil, Table 6.

Planting of all trials in the Lower Peninsula was completed between May 1 to 21. The Upper Peninsula trial, Table 20, was planted June 13.

The 1968 growing season started early with unseasonably mild weather during most of March and April. Temperatures for the rest of the season alternated between below normal and above normal; the middle or latter part of each month, May to October, had above normal temperature. The longest period of below normal temperatures came in the first half of July.

A general killing frost did not occur until late

October, much later than normal at most locations. Nearly all hybrids reached full maturity at all test locations except in the Upper Peninsula.

Rainfall was generally adequate at all locations except in the Huron County trial (Tables 13, 14), where drouth effects were serious. Season totals during April to October were generally 1 to 3 inches above normal in southern Michigan, near normal in central Michigan, and 3 to 8 inches above normal in northern areas.

October and early November weather was good for corn harvest and dry-down of grain in the field. Moisture content of grain was lower than normal at most locations. In contrast, the 1967 harvest season was wet and grain moisture was unusually high.

The Michigan Crop Reporting Service estimates the 1968 average yield at 74.0 bushels per acre (the highest since 1961) on about 1,323,000 acres harvested for grain compared with 1967 averages of 65.0 bushels per acre on 1,407,000 acres. About 450,000 acres of corn were harvested for silage.

## HOW TO USE THIS BULLETIN

One, two, and three-year averages are presented for all hybrids tested during 1968, 1967 and 1966. 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 the number of 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 as "least significant difference", 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<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O applied during the season.

### HOW TO CHOOSE A CORN HYBRID

Adaptation — The map on the cover shows the 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.

Planting Rate — 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 populations 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 good yields do

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 drying costs and market discounts for moisture.
- (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.

Zone 1

**SOUTHERN MICHIGAN**  
**MONROE COUNTY TRIAL**  
**One, Two, and Three Year Averages --- 1968, 1967, 1966**

Hybrid	% Moisture			Bushels Per Acre						% Stalk Lodging			% Root Lodging		
	1968	2 Yrs.	3 Yrs.	1968	2 Yrs.			3 Yrs.			1968	2 Yrs.	3 Yrs.	1968	2 Yrs.
					19100	25800	18400	24700	17600	23300					
Michigan 280	20.4	22	21	102.6	89.9	90	72	—	—	0.8	4.2	12	11	—	—
Michigan 270	21.3	23	21	73.6	66.0	63	53	69	65	10.1	5.9	21	15	17	13
Blaney B 401 (2X)	21.5	—	—	87.7	80.4	—	—	—	—	0.8	2.4	—	—	—	0.0
Michigan 250	21.6	23	22	83.8	64.4	74	54	78	66	10.7	5.2	23	13	16	11
Michigan 300	21.8	23	23	77.6	70.4	75	60	78	66	7.8	2.4	18	13	13	10
Northrup King X 19 (Sp)	22.6	—	—	76.0	66.4	—	—	—	—	4.0	0.0	—	—	—	0.0
Michigan 400	23.1	24	23	95.3	82.7	86	69	89	78	3.1	2.9	11	8	7	5
Michigan 402-2X (2X)	23.2	24	24	95.1	89.1	90	77	97	90	7.2	4.8	11	9	8	7
DeKalb XL 306 (3X)	24.1	25	24	86.3	77.6	84	67	86	77	4.7	2.4	14	8	10	6
Michigan 463-3X (3X)	24.1	26	26	94.9	81.1	92	76	100	89	9.7	6.0	15	13	11	10
Northrup King PX 519 (Sp)	24.2	—	—	106.4	82.7	—	—	—	—	3.9	1.2	—	—	—	0.0
Pioneer 3775 (2X)	24.2	25	25	98.5	89.7	91	78	98	97	3.2	5.3	13	10	10	8
Michigan 550	24.3	26	25	99.3	80.7	91	73	96	85	2.4	4.1	11	7	8	5
<sup>2</sup> Northrup King PX 525 (Sp)	24.5	25	—	106.5	100.3	93	81	—	—	5.4	4.8	15	14	—	0.0
Pioneer 371	24.5	26	26	86.4	82.0	82	70	90	85	9.8	2.4	14	7	10	6
Funk Bros. G 4350 (2X)	24.5	25	25	78.9	72.6	74	67	83	73	2.4	4.1	9	7	5	5
Blaney B 500 (2X)	24.5	—	—	79.7	64.1	—	—	—	—	1.7	1.9	—	—	—	0.0
Weather Master EPX-4P (2X)	24.6	—	—	85.5	69.9	—	—	—	—	4.2	2.4	—	—	—	0.0
DeKalb XL 325 (3X)	25.0	26	26	72.6	71.2	73	65	83	81	2.4	1.8	12	12	9	9
Blaney 6616 (3X)	25.1	—	—	82.1	78.7	—	—	—	—	5.5	0.6	—	—	—	0.0
<sup>1</sup> Pioneer 3773 (2X)	25.2	26	—	112.2	82.5	103	77	—	—	3.9	0.6	5	3	—	0.0
<sup>1,2</sup> Northrup King PX 556 (3X)	25.7	—	—	132.2	99.3	—	—	—	—	3.8	3.6	—	—	—	0.0
Pioneer 354 A	26.0	27	—	100.3	85.2	83	65	—	—	5.5	4.1	22	11	—	0.0
<sup>2</sup> Blaney 6606 A (2X)	26.0	27	27	105.4	100.0	98	88	101	100	3.1	2.4	4	8	3	6
<sup>1,2</sup> Super Crost S 27 (2X)	26.1	—	—	120.9	117.2	—	—	—	—	3.9	3.0	—	—	—	0.0
<sup>1,2</sup> Pioneer 3570 (Sp)	26.2	—	—	108.6	106.8	—	—	—	—	2.3	4.2	—	—	—	0.0
Super Crost 233 (3X)	26.3	—	—	100.3	83.7	—	—	—	—	1.6	3.6	—	—	—	0.0
Pioneer 3715 (3X)	26.4	—	—	101.8	80.2	—	—	—	—	2.3	3.0	—	—	—	0.0
<sup>1</sup> Bayless SX 434 (2X)	26.5	—	—	127.7	94.5	—	—	—	—	3.1	2.4	—	—	—	0.0
Bayless SX 415 (2X)	26.7	—	—	89.4	69.0	—	—	—	—	3.8	0.6	—	—	—	0.0
<sup>2</sup> Northrup King PX 580 (3X)	26.7	—	—	105.1	104.6	—	—	—	—	3.8	3.0	—	—	—	0.0
<sup>1,2</sup> Michigan 568-3X (3X)	26.8	28	28	115.1	101.3	103	87	—	—	1.6	2.9	7	11	—	0.0
<sup>1,2</sup> Bayless SX 433-8 (2X)	26.8	—	—	122.0	102.2	—	—	—	—	2.3	1.2	—	—	—	0.0
Garno S 95 (2X)	26.9	27	27	88.0	63.6	77	62	84	77	4.6	4.7	13	9	10	7
Pioneer 3579 (Sp)	27.0	—	—	95.6	90.8	—	—	—	—	1.6	1.8	—	—	—	0.0
<sup>1,2</sup> Michigan 500-2X (2X)	27.0	27	26	120.1	103.9	110	90	113	107	1.5	1.8	5	6	4	5
Pioneer 3582 (2X)	27.1	—	—	95.4	98.1	—	—	—	—	0.8	0.0	—	—	—	0.0
<sup>1,2</sup> Blaney B 601 (2X)	27.3	27	—	127.0	105.5	111	86	—	—	2.3	3.0	8	7	—	0.0
Weather Master EPX-5P (2X)	27.3	—	—	92.8	96.5	—	—	—	—	3.1	1.2	—	—	—	0.0
Northrup King PX 610 (3X)	27.6	28	27	104.1	97.1	103	84	103	96	3.1	2.9	12	8	8	9
<sup>1,2</sup> Northrup King PX 47 (2X)	27.6	—	—	130.1	116.7	—	—	—	—	3.1	1.2	—	—	—	0.0
Northrup King PX 52 (2X)	27.6	28	28	75.7	79.2	78	64	89	82	4.8	1.2	11	9	8	6
<sup>1,2</sup> DeKalb XL 45 (2X)	27.8	27	27	114.9	103.7	103	85	107	103	0.8	1.2	8	7	6	5
P.A.G. 272 (3X)	28.1	29	—	75.7	74.7	76	63	—	—	3.1	2.4	13	10	—	0.0
Northrup King PX 50 (2X)	28.2	28	28	102.2	86.8	101	84	105	94	2.3	1.8	6	6	4	0.0
P.A.G. SX 9 (2X)	28.2	29	28	94.3	89.5	91	72	98	86	0.8	5.3	11	8	8	6
Funk Bros. G 4333 (2X)	28.4	—	—	91.2	90.2	—	—	—	—	3.8	1.2	—	—	—	0.0
<sup>1,2</sup> Weather Master SPX-6P (2X)	28.4	—	—	109.7	103.1	—	—	—	—	0.8	0.6	—	—	—	0.0
OYO 225 (2X)	28.4	29	—	72.6	56.5	81	58	—	—	6.1	0.6	10	6	—	0.0
DeKalb XL 346 (3X)	28.5	—	—	96.3	98.2	—	—	—	—	0.8	1.4	—	—	—	0.0

Table 1 – MONROE COUNTY TRIAL (Continued)

Hybrid	% Moisture			Bushels Per Acre						% Stalk Lodging			% Root Lodging				
	1968	2 Yrs.	3 Yrs.	1968	2 Yrs.	3 Yrs.	1968	2 Yrs.	3 Yrs.	1968	2 Yrs.	3 Yrs.	1968	2 Yrs.	3 Yrs.	1968	
		19100	25800		18400	24700	17600	23300		19100	25800	18400	24700	17600	23300	19100	25800
Super Crost 224	28.5	—	—	76.0	75.7	—	—	—	3.2	0.6	—	—	—	—	0.0	0.0	
Super Crost S 30 A (2X)	29.5	29	28	82.9	82.5	83	72	93	87	4.0	0.6	11	8	8	6	0.0	0.0
P.A.G. SX 310 (Sp)	29.5	—	—	72.9	75.0	—	—	—	—	2.4	5.4	—	—	—	—	0.0	0.0
OYO 333 (2X)	29.8	30	—	112.2	90.8	100	77	—	—	0.8	1.7	6	6	—	—	0.0	0.0
Average	25.7	26	26	98.2	88.4	90	74	92	85	3.8	2.7	12	10	9	7	0.1	0.0
Range	20.4	22	21	72.6	56.5	63	53	69	65	0.8	0.0	4	6	3	4	0.0	0.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	29.8	30	28	132.2	117.2	111	90	113	107	10.7	6.0	23	15	17	13	3.1	
Least significant difference	1.3	1	1	10.6	10.9	5	5	4	4								

1 — Significantly better than average yield at 19,100 population in 1968.

2 — Significantly better than average yield at 25,800 population in 1968.

	<u>1968</u>	<u>1967</u>	<u>1966</u>
Planted	May 8	May 17	May 9-10
Harvested	Oct. 15	Nov. 13	Nov. 10
Soil Type	Brookston clay loam	Brookston clay loam	Brookston loam
Previous crop	Corn	Corn	Corn
Rows	30"	36"	36"
Population	19,100 and 25,800	17,700 and 23,600	16,000 and 20,400
Fertilizer	112-128-182	160-144-120	130-120-120
Soil test: pH	6.5	6.5	7.2
P	99 (very high)	59 (high)	39 (high)
K	242 (high)	120 (medium high)	240 (high)

Farm Cooperator: Earl Creech, Dundee

County Agricultural Agents: R. J. Laser (deceased) and Paul F. Nevel, Monroe

Table 2.

Zone 1

**SOUTHERN MICHIGAN****HILLSDALE COUNTY TRIAL**

One, Two and Three Year Averages — 1968, 1967, 1966

Hybrid	% Moisture			Bushels	% Stalk	% Root				
	2 3		Per Acre	2 3	2 3	Lodging				
	1968	yrs. yrs.	1968	yrs. yrs.	1968	yrs. yrs.				
Michigan 270	16.3	18	20	92.9	97	100	11.9	9	12	0.0
Michigan 300	18.9	22	23	100.4	101	99	2.5	3	5	0.0
Michigan 250	19.5	21	22	106.0	101	107	4.8	5	5	0.0
Michigan 280	19.6	22	—	103.3	106	—	3.6	4	—	0.0
Northrup King X 19 (Sp)	19.8	—	—	103.3	—	—	4.3	2	—	0.0
Michigan 400	20.9	23	24	118.9	110	111	0.6	2	2	0.0
Michigan 402-2X (2X)	21.0	24	25	126.9	125	124	4.8	7	5	0.0
Todd 228	21.1	—	—	103.2	—	—	5.7	—	0.0	—
Pioneer 368	21.2	25	—	126.1	121	—	2.4	3	—	0.0
P.A.G. SX 36 (2X)	21.2	26	—	134.3	122	—	1.2	1	—	0.0
Pioneer 3775 (2X)	21.5	25	—	128.9	118	—	1.8	2	—	0.0
*Pioneer 3658	21.5	24	—	144.8	130	—	4.1	4	—	0.6
DeKalb XL 306 (3X)	21.6	22	—	116.9	110	—	1.9	3	—	0.6
Funk Bros. G 18 A	21.7	—	—	118.9	—	—	3.6	—	—	0.0
Wyckoff W 9 X	21.8	25	27	131.5	119	121	0.0	0	—	0.0
Michigan 550	22.0	26	28	133.4	128	128	1.9	2	2	0.0
Northrup King PX 519 (Sp)	22.0	—	—	142.0	—	—	3.4	—	—	0.0
Michigan 463-3X (3X)	22.0	25	27	113.1	122	126	4.0	4	4	0.0
Migro M 12 SX (2X)	22.0	25	—	133.8	125	—	5.6	4	—	0.0
*Pioneer 3773 (2X)	22.1	25	—	150.0	139	—	0.6	4	—	0.0
*Northrup King PX 47 (2X)	22.2	—	—	159.7	—	—	4.1	—	—	0.0
Wyckoff W 5 X	22.4	24	26	115.0	113	111	5.5	4	5	0.0
Northrup King PX 525 (Sp)	22.5	25	—	143.6	135	—	1.2	1	—	0.0
*Michigan 500-2X (2X)	22.5	26	28	147.0	143	145	0.0	0	1	0.0
DeKalb XL 325 (3X)	22.5	26	28	116.4	112	113	2.4	2	2	0.0
Pioneer 3582 (2X)	22.7	—	—	138.2	—	—	1.8	—	—	0.6
Northrup King PX 527 (3X)	22.9	25	—	128.0	122	—	0.6	1	—	0.0
Anderson 3-W-100	22.9	—	—	134.0	—	—	1.8	—	—	0.0
Pioneer 3579 (Sp)	23.0	—	—	139.2	—	—	2.9	—	—	0.0
*Michigan 568-3X (3X)	23.0	27	—	148.0	143	—	2.4	2	—	0.0
Todd M 60 (2X)	23.0	26	—	131.5	126	—	1.8	2	—	0.0
Anderson A 95	23.1	—	—	101.9	—	—	2.4	—	—	0.0
Northrup King PX 556 (3X)	23.1	—	—	142.4	—	—	3.5	—	—	0.0
Gutwein 20 (2X)	23.4	—	—	141.8	—	—	7.7	—	—	0.0
*Pride R 450 (2X)	23.5	28	—	150.2	136	—	4.0	3	—	0.0
DeKalb XL 45 (2X)	23.5	27	29	129.9	122	123	1.8	2	2	0.0
Pioneer 3570 (Sp)	23.6	—	—	135.9	—	—	1.2	—	—	0.0
Wyckoff W 215	23.9	—	—	133.5	—	—	1.8	—	—	0.0
*Funk Bros. G 4384 (2X)	24.0	26	—	145.9	140	—	3.5	5	—	0.0
*Weather Master EPX-5P(2X)	24.1	—	—	148.7	—	—	3.5	—	—	0.0
*Northrup King PX 50 (2X)	24.2	27	30	149.0	133	130	4.8	3	3	0.0
Wyckoff W 10 A	24.2	28	29	135.2	124	124	0.6	2	2	0.0
Pride 724	24.2	—	—	124.7	—	—	5.8	—	—	0.0
Todd M 40 A (2X)	24.3	25	—	117.4	101	—	0.6	1	—	0.0
Northrup King PX 52 (2X)	24.3	27	30	113.5	114	116	0.6	2	2	0.0
Todd M 55 (2X)	24.3	27	29	139.2	121	121	3.1	2	1	0.0
*Northrup King PX 610 (3X)	24.3	28	30	148.3	131	133	3.7	2	2	0.0
*Bayless 3 X 485 (3X)	24.4	—	—	151.8	—	—	2.9	—	—	0.6
Migro M 22 SX (2X)	24.5	28	—	129.0	123	—	1.8	2	—	0.0
Bayless SX 415 (2X)	24.6	28	29	137.0	141	133	0.0	1	2	0.0
OYO 225 (2X)	24.8	—	—	113.8	—	—	2.3	—	—	0.0
Anderson A 100	25.2	—	—	116.4	—	—	4.2	—	—	0.0
Bayless SX 615-5 (2X)	25.3	—	—	120.1	—	—	7.4	—	—	0.0
*Crib Filler 22 (2X)	25.4	28	—	145.2	131	—	4.7	3	—	0.0
Northrup King KM 567	25.5	28	29	120.6	127	131	0.6	2	2	0.0

Table 2 — HILLSDALE COUNTY (Continued)

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging		% Root Lodging		
	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.	
*Northrup King PX 580 (3X)	25.5	—	—	155.5	—	—	2.4	—	0.0
*Migro M 540	25.6	—	—	150.3	—	—	1.8	—	0.0
Funk Bros. G 4333 (2X)	25.7	—	—	132.6	—	—	4.2	—	0.0
*OYO 333 (3X)	26.1	28	—	149.1	137	—	1.7	2	—
Migro M 42-3X (3X)	26.3	—	—	131.2	—	—	3.5	—	0.0
*Crib Filler 40 (2X)	27.1	31	34	156.7	132	128	3.0	3	4
Average	23.1	26	27	130.5	125	122	3.0	2.6	3
Range	16.3	18	20	92.9	97	99	0.0	0	1
	to	to	to	to	to	to	to	to	to
	27.1	31	34	159.7	143	145	145	11.9	12
Least significant difference	1.0	1	1	14.0	5	4			

\* Significantly better than average yield in 1968

	1968	1967	1966
Planted	May 2	May 24	May 28
Harvested	Oct. 23	Oct. 28	Oct. 26
Soil type	Griffin sandy loam	Fox sandy loam	Fox sandy loam
Previous crop	Wheat seeded to clover	Corn	Corn
Population	19,300	18,200	17,300
Rows	30"	36"	36"
Fertilizer	143-80-112	152-69-120	Manure, 137-69-120
Soil test: pH	6.6	6.5	6.7
P	28 (medium)	47 (high)	120 (very high)
K	86 (medium)	175 (medium)	125 (medium)

Farm Cooperators: 1968 = Dean Shampio, Prattville, Keith Brown, Jonesville

County Agricultural Agents: E.A. Netherton and A.T. Hall, Hillsdale

Table 3. Zone 1  
**SOUTHERN MICHIGAN**  
**BRANCH COUNTY TRIAL**  
One, Two and Three Year Averages — 1968, 1967, 1966

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging		% Root Lodging		
	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.	
Michigan 270	19.2	23	22	84.7	89	93	15.9	11	3.2
Michigan 250	19.5	23	23	109.4	101	103	3.0	4	1.8
Michigan 300	19.7	24	23	112.1	106	102	4.6	5	5.4
Michigan 280	19.8	22	—	120.3	121	—	3.2	3	4.4
Northrup King PX 19 (Sp)	21.3	—	—	102.8	—	—	1.9	—	0.0
Weather Master EPX-4P(2X)	21.7	—	—	120.7	—	—	7.4	—	1.8
P.A.G. SX 48 (2X)	21.8	—	—	91.5	—	—	9.9	—	0.0
P.A.G. 45	22.4	—	—	99.9	—	—	6.7	—	0.0
Tomco 208	23.0	—	—	93.1	—	—	5.3	—	0.7
Michigan 400	23.2	26	23	116.4	117	102	5.1	3	3.2
DeKalb Ex 26 (2X)	23.3	—	—	95.5	—	—	18.1	—	0.0
Tomco 300 A	23.4	—	—	102.0	—	—	8.8	—	0.0
Michigan 402-2X (2X)	23.5	27	26	126.1	132	127	1.8	2	0.0
Gutwein 10 (2X)	23.5	25	—	96.8	90	—	9.6	7	—
Wyckoff W 5 X	23.5	27	26	116.2	117	113	7.9	5	2.4
Michigan 550	23.5	27	27	137.5	139	134	1.8	1	1.2
Northrup King KE 497	23.7	26	—	113.2	114	—	8.3	5	—
Gutwein 17 (3X)	23.7	26	—	141.1	126	—	3.8	2	—
Hulting 218	23.7	28	—	111.3	126	—	6.8	5	—
Lowe GG 2 A	23.8	—	—	120.5	—	—	4.2	—	0.6
Michigan 463-3X (3X)	23.8	27	27	115.1	120	126	7.3	6	1.2
Northrup King PX 519 (Sp)	24.0	—	—	143.3	—	—	4.9	—	6.1
P.A.G. SX 36 (2X)	24.1	27	—	130.2	124	—	3.7	2	—
Migro M 12 SX (2X)	24.1	28	—	146.3	138	—	0.0	0	3.2
Pioneer 3715 (3X)	24.3	28	—	147.4	135	—	1.8	2	—
DeKalb XL 306 (3X)	24.4	27	—	110.1	118	—	1.8	2	—
*Pioneer 3773 (2X)	24.4	27	—	156.0	145	—	4.4	3	—
Funk Bros. G 5207	24.6	—	—	110.3	—	—	3.2	—	1.9
*Northrup King PX 47 (2X)	24.6	—	—	162.6	—	—	3.0	—	0.0
*Northrup King PX 556 (3X)	24.7	—	—	163.2	—	—	4.0	—	1.7

Table 3 - BRANCH COUNTY TRIAL (Continued)

Hybrid	% Moisture		Bushels Per Acre	% Stalk Lodging		% Root Lodging		
				2 3		2 3		
	1968	yrs.	1968	yrs.	1968	yrs.	1968	
Pioneer 3579 (Sp)	24.7	-	129.7	-	4.3	-	0.0	
*Michigan 500-2X (2X)	24.7	28	150.6	149	146	3.2	2	- 2.6
Northrup King PX 525 (Sp)	24.8	27	144.2	135	-	2.3	3	- 0.0
Pioneer 3582 (2X)	24.8	-	138.1	-	-	3.1	-	- 0.0
*Lowe TWX 2	24.8	-	160.7	-	-	1.7	-	- 0.0
Gutwein 222	24.9	28	149.9	138	-	3.0	3	- 1.2
Gutwein 20 (2X)	24.9	28	150.0	135	-	4.8	2	- 0.0
Hulting X 2352	25.0	-	136.0	-	-	3.6	-	- 1.8
*Gutwein 120 (3X)	25.1	-	152.0	-	-	3.6	-	- 0.6
Northrup King PX 52 (2X)	25.1	29	124.2	124	125	5.1	3	3 0.0
*DeKalb Ex 29 (2X)	25.2	-	164.4	-	-	1.2	-	- 6.9
Brodecks SX 2 (2X)	25.2	-	148.0	-	-	7.7	-	- 1.8
*Funk Bros. G 4384 (2X)	25.2	28	163.6	152	-	0.6	2	- 0.0
*Hulting X 928	25.3	29	162.2	151	-	3.1	2	- 0.0
*Pride R 450 (2X)	25.4	-	154.1	-	-	2.4	-	- 0.0
*Northrup King PX 50 (2X)	25.5	29	28	166.7	149	143	4.5	3 4 0.0
Weather Master EPX-6P (2X)	25.5	-	145.6	-	-	4.7	-	- 1.8
*Michigan 568-3X (3X)	25.5	29	159.2	152	-	1.8	2	- 0.6
*Lowe SX 2 TP	25.5	-	164.2	-	-	1.2	-	- 0.6
Tomco 440	25.5	29	147.8	134	-	2.4	2	- 0.6
Cowbell SX 112 (2X)	25.6	28	27	145.4	141	139	3.5	3 4 1.2
*Bayless SX 615-5 (2X)	25.7	29	-	161.5	153	-	6.8	6 - 0.0
Brodecks 352	25.8	-	147.1	-	-	6.0	-	- 2.4
*Pioneer 3414	25.8	29	163.4	144	-	3.1	3	- 2.5
DeKalb XL 45 (2X)	25.9	29	28	149.9	136	133	4.1	2 2 0.6
*Northrup King PX 580 (3X)	25.9	-	164.4	-	-	4.3	-	- 0.0
*Migro M 540	25.9	30	-	161.2	142	-	1.2	1 - 0.0
Pioneer 3466	26.0	29	28	137.4	134	133	6.5	4 5 0.0
Migro M 22 SX (2X)	26.1	30	-	135.4	132	-	1.9	2 - 1.3
*Bayless SX 415 (2X)	26.1	30	29	159.0	152	146	3.1	3 3 0.0
Hulting X 536	26.3	30	-	136.1	136	-	4.1	2 - 0.0
Hulting X 345	26.3	-	-	141.8	-	-	2.4	- - 0.0
*Northrup King PX 610 (3X)	26.5	29	28	166.7	145	143	3.6	3 3 0.0
*Bayless 3X 485 (3X)	26.7	30	-	155.7	143	-	2.4	3 - 0.6
P.A.G. 272 (3X)	26.8	31	-	128.9	134	-	4.2	3 - 0.0
*Wyckoff W 10 A	26.8	30	28	152.7	146	142	2.4	2 2 0.6
*Tomco SX 626 (2X)	26.9	-	-	158.3	-	-	2.4	- - 0.0
*Bayless SX 601 (2X)	27.0	30	29	151.0	150	147	2.9	2 4 0.6
Migro M 42-3X (3X)	27.1	-	-	149.6	-	-	2.4	- - 0.0
*Funk Bros. G 4333 (2X)	27.4	-	-	151.0	-	-	3.5	- - 1.2
*P.A.G. SX 7 (2X)	27.9	-	-	158.1	-	-	4.3	- - 0.0
*Pioneer 3570 (Sp)	28.8	-	-	152.3	-	-	0.6	- - 0.0
Average	24.8	28	27	137.3	134	128	4.7	3 4 0.9
Range	18.5	24	22	84.7	89	102	0.0	0 2 0.0
	to	to	to	to	to	to	to	to
	28.8	30	29	166.7	153	147	15.9	11 10 6.9
Least significant difference	0.9	1	1	12.9	5	4		

\*Significantly better than average yield in 1968.

	1968	1967	1966
Planted	May 3	May 19	May 27
Harvested	Oct. 19	Nov. 1	Oct. 29
Soil type	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
Previous crop	Corn	Corn	Corn
Population	19,400	19,200	17,100
Rows	30"	36"	36"
Fertilizer	116-92-90	36-92-0	116-92-0
Soil test: pH	6.8	6.4	
P	79 (very high)	112 (high)	
K	323 (very high)	199 (high)	

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

Table 4.

Zone 1

## SOUTHERN MICHIGAN

## KALAMAZOO COUNTY TRIAL

One, Two and Three Year Averages - 1968, 1967, 1966

Hybrid	% Moisture		Bushels Per Acre	% Stalk Lodging		% Root Lodging	
				2 3		2 3	
	1968	yrs.	1968	1968	yrs.	1968	yrs.
Michigan 270	21.4	23	23	111.1	106	89	0.6
Michigan 280	21.8	24	-	132.8	120	-	0.0
Michigan 250	22.7	24	25	116.3	107	89	0.6
Michigan 300	22.7	24	25	115.7	109	93	0.0
Gutwein 10 (2X)	25.7	-	-	99.0	-	-	0.6
Weather Master EPX-3P(2X)	26.5	-	-	113.1	-	-	1.8
Northrup King X 19 (Sp)	26.7	-	-	115.9	-	-	0.0
Pioneer 385	26.7	-	-	123.4	-	-	0.0
Michigan 400	26.8	28	28	123.9	114	97	0.0
DeKalb XL 306 (3X)	27.0	-	-	127.6	-	-	0.0
Funk Bros. G 18 A	27.1	-	-	123.8	-	-	1.8
Michigan 402-2X (2X)	27.2	29	28	127.0	127	108	0.6
DeKalb XL 315 (3X)	27.2	-	-	117.3	-	-	1.2
Pioneer 368	27.4	29	29	138.6	126	105	0.6
Michigan 463-3X (3X)	27.7	30	30	138.4	133	113	1.2
Weather Master EP 40 (3X)	28.2	-	-	105.2	-	-	0.6
*Michigan 500-2X (2X)	28.5	31	30	157.3	146	123	0.0
Funk Bros. G 5207	28.6	-	-	124.0	-	-	0.6
*Pioneer 3775 (2X)	28.7	31	30	151.1	137	109	0.0
*Pioneer 3773 (2X)	28.7	30	-	154.9	145	-	0.0
Michigan 550	28.9	30	29	154.4	137	113	0.6
*Northrup King PX 556 (3X)	28.9	-	-	166.3	-	-	0.0
*Northrup King PX 525 (Sp)	29.0	30	-	152.6	136	-	1.7
Pioneer 3579 (Sp)	29.2	-	-	131.2	-	-	0.6
DeKalb XL 325 (3X)	29.2	-	-	119.9	-	-	0.0
*Cowbell SX 112 (2X)	29.5	-	-	159.5	-	-	0.0
*Michigan 568-3X (3X)	29.5	-	-	154.6	-	-	0.6
Migro M 12 SX (2X)	29.5	32	-	146.1	120	-	0.6
*Pride R 407 (2X)	29.6	-	-	155.2	-	-	0.6
Pioneer 3582 (2X)	29.6	-	-	133.6	-	-	1.2
Northrup King PX 519 (Sp)	29.8	-	-	148.6	-	-	1.2
Migro M 140	29.8	32	-	128.0	117	-	0.0
Pioneer 371	29.9	33	32	136.5	114	93	0.0
P.A.G. SX 52 (2X)	30.3	-	-	129.6	-	-	0.0
Tomco 440	30.7	33	-	120.0	115	-	0.0
*Northrup King PX 47 (2X)	30.9	-	-	165.1	-	-	0.0
DeKalb XL 45 (2X)	30.9	33	32	126.4	121	104	0.0
*Northrup King PX 50 (2X)	31.2	33	32	155.7	124	102	0.0
Northrup King PX 52 (2X)	31.3	32	32	119.4	128	105	1.7
Northrup King PX 610 (3X)	31.4	32	31	148.9	123	103	0.6
Migro M 22 SX (2X)	31.6	33	-	106.5	101	-	0.6
Pride R 450 (2X)	31.7	34	33	147.5	123	105	1.7
Funk Bros. G 4333 (2X)	31.7	-	-	137.5	-	-	0.0
Migro M 42-3X (3X)	31.8	-	-	131.2	-	-	0.6
*Pioneer 3570 (Sp)	31.8	-	-	159.9	-	-	0.0
Crib Filler 22 (2X)	31.9	32	-	147.6	130	-	0.6
Pioneer 3567	32.2	34	-	144.9	124	-	0.0
*Northrup King PX 580 (3X)	32.2	-	-	158.4	-	-	0.6
Average	29.4	30	29	136.3	124	103	0.5
Range	21.4	23	23	99.0	100	89	0.0
	to	to	to	to	to	to	to
	32.2	34	33	166.3	146	123	1.8
Least significant difference	1.1	1	1	12.9	5	4	

\*Significantly better than average yield in 1968.

	1968	1967	1966
Planted	May 9	May 26	May 23
Harvested	Oct. 17	Nov. 3	Oct. 31
Soil type	Warsaw loam	Warsaw loam	Warsaw loam
Previous crop	Corn	Corn	Corn
Population	19,600	17,800	16,800
Rows	30"	36"	36"
Fertilizer	116-64-122	145-80-20	113-53-53
Soil test: pH	7.1	7.3	6.8
P	59 (very high)	35 (medium high)	168 (very high)
K	291 (high)	210 (high)	341 (very high)

Farm Cooperator: Richard Van Vrancken, Climax

County Agricultural Agent: Vernon Hinz, Kalamazoo

Table 5.

Zone 1

**SOUTHERN MICHIGAN****IRRIGATED UPLAND SOIL — CASS COUNTY TRIAL**  
**One and Two Years — 1968 and 1967**

Hybrid	% Moisture	Bushels Per Acre	% Stalk Lodging	% Root Lodging	
	1968 2 yrs.	1968 2 yrs.	1968 2 yrs.	1968 2 yrs.	1968
Michigan 270	19.7	—	87.1	—	7.6 — 0.0
Michigan 250	20.6	—	118.2	—	4.5 — 1.9
Michigan 300	20.8	—	107.6	—	3.9 — 4.5
Michigan 280	21.0	—	110.4	—	3.8 — 2.6
Cowbell SX 24 (2X)	21.6	—	82.2	—	5.0 — 0.0
P.A.G. SX 48 (2X)	22.0	—	101.2	—	7.7 — 0.6
Northrup King X 19 (Sp)	22.3	—	114.6	—	3.2 — 0.0
Pioneer 3911 (2X)	22.4	—	134.0	—	1.3 — 0.0
Michigan 402-2X (2X)	22.4	24.7	116.8	117	5.9 6 0.6
Michigan 400	22.6	—	133.9	—	3.8 — 0.6
Gutwein 10 (2X)	23.6	—	87.5	—	7.6 — 0.0
DeKalb XL 306 (3X)	23.9	26	131.3	120	2.5 6 0.0
Blaney B 401 (2X)	23.9	—	122.3	—	1.3 — 0.0
Super Crost 2610	23.9	—	117.4	—	4.5 — 0.0
Migro M 12 SX (2X)	24.1	26	151.7	131	0.0 6 0.0
Pioneer 3775 (2X)	24.3	—	135.0	—	0.0 — 0.0
Michigan 463-3X (3X)	24.3	26	127.9	127	6.3 6 0.0
Migro M 110 A	24.8	—	120.6	—	3.9 — 0.0
Weather Master EP 40 (3X)	24.8	—	112.8	—	1.9 — 0.0
Northrup King PX 525 (Sp)	24.9	27	136.4	125	0.6 3 0.0
Michigan 550	24.9	27	126.6	125	3.2 3 0.6
Blaney B 500 (2X)	25.1	—	95.2	—	3.2 — 0.6
DeKalb XL 325 (3X)	25.3	28	113.4	116	2.6 3 0.0
Northrup King PX 519 (Sp)	25.5	—	136.2	—	1.9 — 0.6
Blaney 6616 (3X)	25.6	—	131.3	—	3.8 — 0.0
*Michigan 500-2X (2X)	25.6	28	154.9	142	0.6 2 0.6
Lowe SX 2 TP	25.6	—	133.9	—	2.6 — 0.0
Moews 84	25.8	—	93.9	—	3.2 — 1.9
Blaney 6606 A (2X)	25.8	—	127.2	—	2.5 — 0.6
Migro M 140	25.8	28	129.4	119	3.2 4 0.0
Pioneer 3579 (Sp)	26.0	—	140.0	—	1.3 — 0.6
Parker 250	26.4	—	126.7	—	1.3 — 0.0
DeKalb XL 335 (3X)	26.4	—	105.2	—	0.6 — 0.0
*Teweles SXT 24 (2X)	26.4	—	152.0	—	3.9 — 0.0
Northrup King PX 52 (2X)	26.6	28	102.2	107	6.3 6 0.0
P.A.G. SX 52 (2X)	26.6	28	121.0	128	1.3 4 0.0
*Pioneer 3773 (2X)	26.7	28	153.3	142	0.6 2 0.0
*Moews SX 327 (2X)	26.7	—	149.4	—	5.1 — 0.0
*Michigan 568-3X (3X)	26.8	—	153.6	—	6.3 — 0.0
*Northrup King PX 50 (2X)	26.8	28	153.7	129	1.3 2 0.0
Gutwein 120 (3X)	26.8	—	130.4	—	3.2 — 0.0
*Blaney B 601 (2X)	26.9	—	150.8	—	1.3 — 1.3
*Funk Bros. G 4384 (2X)	26.9	28	164.5	181	1.9 5 1.3
Cowbell SX 112 (2X)	27.0	28	149.6	136	2.5 3 0.6
*Gutwein 20 (2X)	27.1	—	155.2	—	5.1 — 0.6
*Weather Master EPX-5P (2X)	27.1	—	156.3	—	1.3 — 0.0
Migro M 42-3X (3X)	27.1	—	125.4	—	5.6 — 0.6
*Northrup King PX 47 (2X)	27.2	—	151.2	—	3.2 — 0.0
*Northrup King PX 610 (3X)	27.2	29	164.5	139	1.9 2 0.6
Wolverine W 175 (2X)	27.4	—	127.6	—	1.3 — 0.0
Todd M 55	27.6	—	140.5	—	0.6 — 0.0
Parker 350	27.6	—	111.8	—	3.2 — 0.0
Migro M 22 SX (2X)	27.6	29	128.2	126	5.1 4 0.0
*Northrup King PX 580 (3X)	27.8	—	159.6	—	3.2 — 2.5
DeKalb XL 45 (2X)	27.8	29	130.0	128	2.5 2 0.0
Bayless SX 415 (2X)	27.8	30	128.0	126	5.7 5 1.3
Pioneer 3582 (2X)	27.8	—	142.5	—	0.0 — 1.3
*Pioneer 3570 (Sp)	27.9	—	167.4	—	1.3 — 0.0
*Bayless SX 615-5 (2X)	28.0	30	151.0	137	10.1 5 0.6
*Northrup King PX 556 (3X)	28.3	—	147.3	—	2.6 — 0.0
Parker 633	29.2	—	115.5	—	3.2 — 0.6
Pride 724	30.0	—	128.7	—	5.7 — 0.0
Average	24.0	28	130.7	128	3.5 4 0.4
Range	19.7	25	82.2	107	0.0 2 0.0
	to	to	to	to	to
	30.3	30	167.4	142	10.1 6 4.5
Least significant difference	0.8	1	14.1	5	

Table 5. — CASS COUNTY TRIAL (Continued)

\*Significantly better than average yield in 1968.

	1968	1967
Planted	May 4	May 6
Harvested	Oct. 15	Nov. 8
Soil type	Kalamazoo sandy loam	Kalamazoo sandy loam
Previous crop	Corn	Potatoes
Population	23,800	17,200
Rows	28"	40"
Fertilizer	174-42-6	148-127-0
Irrigation	5 times, 1" each July 8- Aug. 20	2" = mid-July, 2" = early August
Soil test: pH	6.8	6.7
P	84 (high)	138 (high)
K	272 (high)	389 (very high)

Farm Cooperators: 1968 = Dave Cripes, Cassopolis; 1967 = Cliff Moulton, Decatur  
County Agricultural Agent: Fred Sackrider, Cassopolis

Table 6. Zone 1

**SOUTHERN MICHIGAN**  
**MUCK SOIL — CASS COUNTY TRIAL**  
**One Year — 1968**

Hybrid	% Moisture	Bushels Per Acre	% Stalk Lodging	% Root Lodging
P.A.G. SX 48 (2X)	20.3	67.0	6.3	0.0
Michigan 270	20.7	74.1	16.1	0.8
Michigan Exp. 65-2003A (2X)	20.7	94.9	12.0	0.0
Michigan 280	20.9	103.9	8.3	0.0
Northrup King X 19 (Sp)	21.0	87.6	4.0	0.0
Mich. Exp. 65-2003 (2X)	21.6	88.6	6.5	0.0
Michigan 250	22.3	77.8	9.3	0.0
Cowbell SX 24 (2X)	22.7	65.3	10.4	0.0
Michigan 300	23.5	91.6	4.5	0.9
Blaney B 401 (2X)	23.9	101.6	4.8	0.0
Pioneer 3911 (2X)	24.1	78.8	4.7	0.0
Gutwein 10 (2X)	24.5	88.3	3.9	0.0
Migro M 110 A	24.8	84.1	3.9	0.0
Michigan 400	24.8	84.6	6.1	0.0
DeKalb 306 (3X)	25.1	90.8	3.1	0.0
Michigan 402-2X (2X)	25.1	104.6	1.7	0.0
Migro M 12 SX (2X)	25.5	107.9	2.4	0.0
Weather Master EP 40 (3X)	25.6	73.7	4.7	0.0
*Gutwein 120 (3X)	25.6	116.1	3.7	0.0
DeKalb XL 325 (3X)	25.7	94.0	3.0	0.0
*Northrup King PX 519 (Sp)	25.7	125.7	6.2	0.0
*Northrup King PX 47 (2X)	25.9	124.8	4.5	0.0
Blaney B 601 (2X)	25.9	82.1	5.4	0.0
*Northrup King PX 525 (Sp)	25.9	109.2	2.3	0.0
Supercrost 2610	26.1	98.1	7.0	0.0
Blaney B 500 (2X)	26.1	85.4	12.5	0.0
*Weather Master EPX-5P (2X)	26.2	121.6	6.1	0.0
Moews 84	26.3	87.6	3.9	0.0
Pioneer 3775 (2X)	26.5	98.2	7.0	0.0
*Parker 250	26.7	111.8	6.8	0.0
Lowe SX2 TP	26.8	90.9	7.6	0.0
Blaney 6606 A (2X)	26.9	102.7	4.5	0.0
Migro M 140	26.9	92.9	3.8	1.5
*Pioneer 3773 (2X)	27.1	136.9	3.0	0.8
Teweles SXT 24 (2X)	27.1	98.7	3.8	0.0
*Michigan 500-2X (2X)	27.2	132.4	3.1	0.8
Pioneer 3582 (2X)	27.2	88.1	6.8	0.0
Cowbell SX 112 (2X)	27.4	92.5	7.0	0.0
*Northrup King PXP 10 (3X)	27.4	111.9	6.8	0.0
Blaney 6616 (3X)	27.4	103.3	2.3	0.0
*Bayless SX 615-5 (2X)	27.4	111.8	8.4	0.0
Michigan 463-3X (3X)	27.5	88.2	12.7	0.0
*Funk Bros. G 4384 (2X)	27.5	112.7	12.1	0.0
Gutwein 20 (2X)	27.5	100.3	10.7	0.0
*Parker 350	27.6	109.7	9.1	0.0

Table 6 - CASS COUNTY TRIAL (Continued)

Hybrid	% Moisture	Bushels Per Acre	% Stalk Lodging	% Root Lodging
De Kalb XL 335 (3X)	27.6	94.2	10.7	0.0
Moews SX 327 (2X)	27.7	107.4	5.3	0.0
Pioneer 3579 (Sp)	27.8	91.2	2.3	0.0
*Northrup King PX 580 (3X)	27.8	129.6	7.5	0.0
Todd M 55	27.9	108.6	4.6	0.0
Northrup King PX 52 (2X)	28.0	81.0	4.7	0.8
*Bayless SX 415 (2X)	28.0	119.4	8.5	0.0
*Michigan 568-3X (3X)	28.1	124.3	6.9	0.0
Pioneer 3570 (Sp)	28.2	102.6	5.2	0.0
Northrup King PX 556 (3X)	28.2	103.1	7.7	0.0
P.A.G. SX 52 (2X)	28.3	98.2	3.1	0.0
Migro M 42-3X (3X)	28.4	103.4	8.3	0.0
Northrup King PX 50 (2X)	28.1	96.0	5.3	0.0
Migro M-22 SX (2X)	28.7	96.9	3.7	0.0
Pride 724	28.7	96.9	3.7	0.0
*Wolverine W 175 (2X)	29.3	113.0	6.8	0.0
De Kalb XL 45 (2X)	29.4	103.6	4.6	0.0
Parker 633	30.8	74.1	3.8	0.0
Average	26.7	98.9	6.1	0.1
Range	20.3 to 30.8	65.3 to 136.9	1.7 to 16.1	0.0 to 1.5
Least significant difference	1.3	10.3		

\*Significantly better than average yield in 1968.

**Planted — May 15**      **Harvested — Oct. 15**  
**Soil type — Carlisle Muck**      **Previous crop — Corn**      **Population = 18,800**  
**Rows = 40"**      **Fertilizer — 82-92-132 + 1% copper and zinc**  
**Soil test: PH = 5.6, P = 101**      **(very high), K = 658 (very high)**

**Farm Cooperator: Oliver, Russell, and Roger Anderson, Cassopolis  
County Agricultural Agent: Fred Sackrider, Cassopolis**

Table 7. Zone 2

SOUTH CENTRAL MICHIGAN

OTTAWA COUNTY TRIAL

One, Two and Three Year Averages = 1968, 1967, 1966

Hybrid	% Moisture			Bushels Per Acre		% Stalk Lodging		% Root Lodging		
	2 1968	3 yrs.	2 1968	2 yrs.	3 yrs.	1968	2 yrs.	3 yrs.	1968	
Michigan 250	20.5	24	23	111.5	112	104	10.2	11	9	0.0
Michigan 300	20.7	24	24	103.8	107	97	7.0	9	8	0.0
Michigan 270	21.1	24	23	93.2	100	93	7.1	12	10	0.6
Michigan Exp. 65-2003A (2X)	21.5	—	—	128.9	—	—	10.4	—	—	0.0
Michigan 280	21.5	25	—	129.9	122	—	6.0	10	—	0.0
*Michigan Exp. 65-2003 (2X)	22.0	24	—	140.5	134	—	10.3	15	—	0.0
Northrup King PX 22 (2X)	22.9	—	—	112.7	—	—	2.7	—	—	0.0
Pioneer 3799	23.7	—	—	99.8	—	—	11.8	—	—	0.0
Cowbell SX 102 (2X)	23.7	—	—	134.9	—	—	10.0	—	—	0.0
Weather Master EPX-4P (2X)	23.7	—	—	100.7	—	—	8.1	—	—	0.0
Funks G 10 A	23.9	27	—	112.0	118	—	7.7	12	—	0.0
Weather Master EPX-3 P (2X)	24.1	—	—	94.2	—	—	4.6	—	—	0.0
Weather Master EP 30 (3X)	24.6	28	—	85.6	99	—	7.9	6	—	0.0
Northrup King PX 480 (Sp)	24.9	28	27	111.9	119	105	7.0	10	9	0.0
Funk Bros. G 17 A	25.0	28	—	126.0	125	116	5.4	13	10	0.0
Michigan 400	25.0	28	27	125.7	121	108	5.4	7	5	0.0
DeKalb XL 306 (3X)	25.2	—	—	120.6	—	—	9.0	—	—	0.6
Weather Master EP 40 (3X)	25.3	29	—	102.0	110	—	1.2	4	—	0.0
Michigan 402-2X (2X)	25.4	28	28	128.6	130	120	4.8	11	9	0.0
Funk Bros. G 4287 (3X)	25.5	28	—	111.8	116	—	4.9	9	—	0.0
Pioneer 3675 (2X)	25.5	—	—	116.7	—	—	0.0	—	—	0.0
Wolverine 66 A	25.7	29	29	116.2	115	108	7.7	14	11	0.0
*Michigan 550	25.8	29	29	140.5	132	119	4.5	6	5	0.0
*Northrup King PX 525 (Sp)	25.9	29	—	149.1	138	—	6.7	5	—	0.0
Michigan 463-3X (3X)	26.0	29	28	125.3	129	119	6.3	8	7	0.0

Table 7. - OTTAWA COUNTY TRIAL (Continued)

Hybrid	% Moisture			Bushels Per Acre		% Stalk Lodging		% Root Lodging	
	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.	2 1968
DeKalb XL 315 (3X)	26.1	—	—	108.9	—	—	4.8	—	0.0
Funk Bros. G 18 A	26.2	28	—	113.2	116	—	7.0	14	0.0
Pioneer 3715 (3X)	26.3	—	—	120.9	—	—	2.4	—	0.0
*Pioneer 3773 (2X)	26.4	30	30	153.2	140	124	5.0	12	8.0
Northrup King PX 519 (Sp)	26.6	—	—	138.7	—	—	4.8	—	0.0
Funk Bros. G 4292 (3X)	26.7	—	—	103.8	—	—	2.4	—	0.0
*Michigan 568-3X (3X)	27.3	—	—	146.6	—	—	6.0	—	0.6
Northrup King PX 560 (Sp)	27.3	31	—	123.8	119	—	5.0	7	0.0
*Pioneer 3579 (Sp)	27.7	—	—	140.4	—	—	8.4	—	0.0
*Michigan 500-2X (2X)	27.7	31	30	150.1	141	130	6.5	5	3.0
Pioneer 371	28.2	32	32	137.1	126	111	8.6	11	8.0
Northrup King PX 44 (2X)	28.4	32	32	108.9	115	103	3.1	5	5.0
Soy 13 (2X)	28.5	—	—	144.2	—	—	7.2	—	0.0
*Soy J 7	28.6	—	—	143.6	—	—	1.8	—	0.0
Soy J 31	28.8	—	—	128.9	—	—	4.1	—	0.0
*Pride R 450 (2X)	28.8	33	—	149.5	140	—	4.8	6	0.0
DeKalb XL 45 (2X)	29.0	—	—	133.8	—	—	10.4	—	0.0
*Pride R 407 (2X)	29.3	—	—	152.0	—	—	3.5	—	0.0
Northrup King KM 567	30.1	33	32	110.9	118	110	4.5	10	7.1.9
*Crows 428 (2X)	31.6	35	34	143.9	127	118	3.0	4	4.0.0
Crows 420 (2X)	31.7	34	33	136.3	124	110	3.7	8	6.0.0
Average	25.7	29	29	125.3	123	112	6.0	9	7.0.1
Range	20.5 to 31.7	24 to 35	23 to 34	85.6 to 153.2	99 to 141	93 to 130	0.0 to 11.8	4 to 15	3.0.0 to 11.9
Least significant difference	0.9	1	1	13.8	5	4			

\*Significantly better than average yield in 1968.

	<u>1968</u>	<u>1967</u>	<u>1966</u>
Planted	May 17	May 25	May 26
Harvested	Oct. 31	Nov. 21	Nov. 3
Previous crop	Corn	Corn	Corn
Population	19,300	17,800	16,900
Rows	30"	36"	36"
Fertilizer:	160-80-40	140-64-32	144-96-48
Soil test: P <sup>H</sup>	6.2	6.2	6.9
P	120 (very high)	65 (high)	77 (high)
K	242 (high)	277 (high)	352 (very high)

Farm Cooperators: Marvin Ratmos, Jamestown

County Agricultural Agent: Richard Machiele, Zeeland

Table 8.

Zone 2

**SOUTH CENTRAL MICHIGAN****GRAIN - INGHAM COUNTY TRIAL****One, Two and Three Year Averages - 1968, 1967, 1966**

Hybrid	% Moisture				Bushels Per Acre					% Stalk Lodging				% Root Lodging																			
	1968	2 Yrs.	3 Yrs.	1968	19500		25000			19000		24800		18400		23600		19500		25000		19000		24800		18400		23600		19500		25000	
					1950	25000	19000	24800	18400	23600	19500	25000	19000	24800	18400	23600	19500	25000	19000	24800	18400	23600	19500	25000	19000	24800	18400	23600	19500	25000			
Michigan 270	25.7	28	27	97.8	91.1	103	104	99	98	1.9	10.9	2	6	3	7	0.0	4.7																
Michigan 250	26.3	27	27	109.1	105.9	113	116	107	107	3.2	8.5	2	4	2	5	0.0	0.0																
Michigan 280	26.4	27	-	117.2	125.9	118	131	-	-	1.8	1.5	2	1	-	-	0.0	1.5																
Michigan Exp. 65-2003 (2X)	26.7	27	-	123.4	129.4	129	134	-	-	1.9	9.7	1	5	-	-	0.0	0.0																
Michigan Exp. 65-2003 A (2X)	27.1	-	-	125.0	131.0	-	-	-	-	3.8	3.7	-	-	-	-	0.0	0.0																
P.A.G. SX 48 (2X)	28.7	30	30	109.4	104.9	114	117	112	113	1.8	2.8	1	2	1	3	0.0	0.0																
Michigan 300	28.8	30	29	109.3	114.3	108	115	102	104	3.6	1.6	2	1	2	3	7.2	12.5																
Blaney B 500 (2X)	29.6	-	-	108.9	104.4	-	-	-	-	0.8	1.6	-	-	-	-	0.0	0.0																
Funk Bros. G 4287 (3X)	29.6	-	-	105.6	100.5	-	-	-	-	1.8	4.1	-	-	-	-	0.0	0.0																
Pioneer 3799	30.1	-	-	112.6	120.9	-	-	-	-	0.9	2.1	-	-	-	-	0.0	0.0																
Funk Bros. G 17 A	30.3	31	31	107.9	112.1	117	120	113	115	5.0	1.4	3	1	3	1	0.0	0.0																
DeKalb XL 306 (3X)	30.5	-	-	98.8	106.8	-	-	-	-	2.8	0.7	-	-	-	-	0.0	0.7																
Blaney B 401 (2X)	30.7	32	-	115.4	118.3	119	122	-	-	0.0	1.5	0	1	-	-	0.0	1.5																
Michigan 400	30.8	31	31	102.8	118.2	105	114	105	110	1.7	1.4	1	1	1	1	0.0	0.0																
Northrup King PX 480 (Sp)	31.1	32	32	122.2	125.9	127	130	116	115	2.5	7.4	2	4	2	5	0.0	0.0																
Weather Master EP 30 (3X)	31.1	32	-	100.4	97.0	108	103	-	-	0.0	0.8	0	0	-	-	0.0	0.0																
Funk Bros. G 10 A	31.1	31	-	97.3	92.1	115	110	-	-	2.9	11.0	2	8	-	-	0.0	0.0																
Pioneer 3911 (2X)	31.4	-	-	119.5	124.1	-	-	-	-	1.7	1.5	-	-	-	-	1.7	0.0																
Northrup King PX 22 (2X)	31.6	-	-	107.6	109.6	-	-	-	-	1.9	4.8	-	-	-	-	0.0	0.0																
Michigan 402 - 2X (2X)	31.8	32	32	119.1	125.5	123	139	122	134	0.8	1.4	0	1	0	1	0.0	0.0																
DeKalb Ex 26 (2X)	31.9	-	-	111.0	110.8	-	-	-	-	0.8	0.0	-	-	-	-	0.0	0.0																
Funk Bros. G 4350 (2X)	31.9	33	-	95.5	93.9	108	113	-	-	1.2	10.5	1	6	-	-	0.0	0.0																
Super Crost S 19 (2X)	31.9	-	-	126.1	124.3	-	-	-	-	1.7	0.7	-	-	-	-	0.0	0.7																
<sup>1</sup> Pioneer 3579 (Sp)	32.0	-	-	133.3	121.2	-	-	-	-	0.8	1.4	-	-	-	-	0.0	0.0																
Pioneer 3715 (3X)	32.1	33	-	111.7	112.6	105	120	-	-	1.8	0.6	1	-	-	-	0.0	0.0																
<sup>1,2</sup> Cowbell 112 SX (2X)	32.2	33	34	137.6	136.2	135	136	124	125	0.0	1.2	0	1	0	1	0.0	0.0																
<sup>1,2</sup> Northrup King PX 525 (Sp)	32.2	33	-	141.4	137.0	124	129	-	-	0.0	3.3	0	2	-	-	0.0	0.0																
DeKalb XL 315 (3X)	32.0	32	31	95.8	126.3	112	126	107	115	0.0	2.0	0	1	1	2	0.0	0.0																
Wolverine 66 A	32.4	34	-	100.1	110.7	103	108	-	-	2.7	2.4	1	2	-	-	0.0	0.0																
Funk Bros. G 4292 (3X)	32.5	-	-	96.7	107.2	-	-	-	-	0.0	0.7	-	-	-	-	0.0	0.0																
Migro M 110 A	32.5	-	-	114.9	126.1	-	-	-	-	2.7	1.4	-	-	-	-	0.0	0.0																
Funk Bros. G 4222 (2X)	32.5	-	-	116.9	121.3	-	-	-	-	1.6	0.0	-	-	-	-	0.0	0.0																
Michigan 463 - 3X (3X)	32.5	33	34	112.2	117.8	120	126	121	123	5.6	2.7	3	2	3	2	0.0	0.0																
Cowbell HR 58	32.6	-	-	96.6	89.8	-	-	-	-	2.9	0.7	-	-	-	-	0.0	0.0																
<sup>1</sup> Teweles SXT 80 (3X)	32.8	-	-	134.1	126.5	-	-	-	-	0.0	1.5	-	-	-	-	0.0	0.0																
Blaney 6616 (3X)	32.8	34	34	110.7	131.4	114	125	114	119	0.8	0.7	0	0	0	1	0.0	0.0																
Pioneer 3773 (3X)	33.0	34	35	127.6	126.1	128	124	128	121	0.0	0.0	0	0	1	0	0.0	0.0																
<sup>1</sup> Cowbell SX 206 (2X)	33.1	-	-	135.9	114.1	-	-	-	-	2.0	3.1	-	-	-	-	0.0	0.0																
<sup>1,2</sup> Michigan 500 - 2X (2X)	33.2	34	34	139.5	139.2	133	147	131	144	0.8	2.0	0	1	1	1	0.0	0.0																
<sup>1,2</sup> Blaney 6606 A (2X)	33.4	33	34	141.4	145.3	138	151	135	145	1.8	0.7	1	1	1	1	0.0	0.0																
Crib Filler 3425 (3X)	33.4	-	-	108.3	114.4	-	-	-	-	0.0	1.7	-	-	-	-	0.0	0.0																
<sup>1</sup> Super Crost S 27 (2X)	33.4	-	-	137.3	130.4	-	-	-	-	0.8	0.0	-	-	-	-	0.0	0.0																
<sup>1,2</sup> Blaney B 601 (2X)	33.4	34	-	138.0	143.2	138	137	-	-	0.0	0.0	0	1	-	-	0.0	0.0																
Pioneer 3775 (2X)	33.6	34	34	113.3	112.7	109	113	115	115	2.6	1.5	1	1	1	2	0.0	1.5																
<sup>2</sup> Pride R 407 (2X)	33.7	-	-	116.8	135.2	-	-	-	-	2.6	0.0	-	-	-	-	0.0	0.0																
<sup>1,2</sup> Michigan 568 - 3X (3X)	33.7	-	-	138.0	136.2	-	-	-	-	0.8	2.1	-	-	-	-	0.0	0.0																
Teweles SXT 86 (3X)	33.7	-	-	108.5	114.5	-	-	-	-	0.9	6.4	-	-	-	-	0.0	0.0																
DeKalb XL 325 (3X)	33.8	34	34	102.1	124.8	106	118	104	111	0.8	2.0	0	1	1	1	0.0	0.0																
Michigan 550	33.8	35	35	122.9	118.2	118	124	115	118	0.0	2.3	0	2	0	2	0.0	0.0																
P.A.G. 70	34.1	36	-	110.3	106.4	109	111	-	-	0.8	5.0	0																					

Table 8 – INGHAM COUNTY (Continued)

Hybrid	% Moisture			Bushels Per Acre						% Stalk Lodging			% Root Lodging			
	1968	2 Yrs.	3 Yrs.	1968			2 Yrs.	3 Yrs.	1968			2 Yrs.	3 Yrs.	1968		
				19500	25000	19000			19500	25000	19000			19500	25000	
Migro M 12 SX (2X)	34.9	35	—	93.6	114.0	108	123	—	—	0.0	0.7	—	—	—	0.0	0.0
DeKalb XL 45 (2X)	35.3	35	35	122.8	131.1	119	128	116	119	0.0	0.0	0	0	0	0	0.0
Cowbell 107 SX (2X)	35.5	36	—	101.0	97.5	108	106	—	—	1.0	0.9	1	1	—	—	0.0
P.A.G. SX 52 (2X)	35.8	—	—	120.9	130.0	—	—	—	—	0.0	0.0	—	—	—	—	0.0
<sup>1</sup> Super Crost S 30 A (2X)	36.1	37	37	130.8	123.7	115	120	118	122	0.0	0.7	0	0	0	1	0.0
Migro M 42-3X (3X)	36.3	—	—	117.2	127.1	—	—	—	—	0.8	0.7	—	—	—	—	0.0
<sup>1</sup> P.A.G. 272 (3X)	37.3	36	—	132.9	118.2	125	128	—	—	0.8	0.7	0	0	—	—	0.0
<sup>1</sup> Migro 540	37.6	—	—	133.3	115.8	—	—	—	—	0.0	0.0	—	—	—	—	0.0
Average	32.4	33	32	117.7	120.2	118	124	115	119	1.4	2.3	1	2	1	2	0.1
Range	25.7	27	27	93.6	89.8	103	103	99	98	0.0	0	0	0	0	0	0.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	0.0
	37.6	37	37	141.4	145.3	138	151	135	145	9.5	11.0	3	8	3	7	7.2
Least Significant difference	1.5	1	1	12.8	13.2	5	5	4	4							12.5

1 — Significantly better than average yield at 19,500 population in 1968.

2 — Significantly better than average yield at 25,000 population in 1968.

	1968	1967	1966
Planted	May 4	May 16	May 21
Harvested	Oct. 5	Oct. 14	Oct. 12
Soil type	Conover clay loam	Conover clay loam	Conover clay loam
Previous crop	Corn	Corn	Corn
Population	19,500 and 25,000	18,400 and 24,600	17,200 and 21,100
Rows	36"	36"	36"
Fertilizer	150-60-60	18,900 = 150-60-60; 24,600 = 252-104-104	17,200 = 150-60-210; 21,100 = 245-175-325
Soil Test: pH	6.6	6.6	6.3
P	59 (high)	99 (high)	63 (high)
K	315 (high)	275 (high)	293 (high)

Farm Cooperator: Michigan State University

Table 9

Zone 2

**SOUTH CENTRAL MICHIGAN**  
**GRAIN - INGHAM COUNTY TRIAL**  
**One Year - 1968**

Hybrid	% Moisture	Bushels Per Acre		
		36" Row	30" Rows	18" Rows
Michigan 270	25.7	97.8	94.5	118.1
Michigan 250	26.3	109.1	106.0	108.6
Michigan 280	26.4	117.2	135.4	122.2
Michigan Exp. 65-2003 (2X)	26.7	123.4	128.1	131.6
Michigan Exp. 65-2003 A (2X)	27.1	125.0	133.1	128.7
P.A.G. SX 48 (2X)	28.7	109.4	103.0	109.1
Michigan 300	28.8	109.3	111.0	128.4
Blaney B 500 (2X)	29.6	108.9	114.4	102.6
Funk Bros. G 4287 (3X)	29.6	105.6	107.7	123.5
Pioneer 3799	30.1	112.6	121.3	124.0
Funk Bros. G 17 A	30.3	107.9	130.2	126.8
DeKalb XL 306 (3X)	30.5	98.8	112.1	112.5
Blaney B 401 (2X)	30.7	115.4	117.8	135.0
Michigan 400	30.8	102.8	127.6	117.1
<sup>3</sup> Northrup King PX 480 (Sp)	31.1	122.2	130.7	148.4
Weather Master EP 30 (3X)	31.1	100.4	99.2	98.4
Funk Bros. G 10 A	31.1	97.3	103.0	106.6
Pioneer 3911 (2X)	31.4	119.5	131.1	114.7
Northrup King PX 22 (2X)	31.6	107.6	118.9	121.4
<sup>3</sup> Michigan 402-2X (2X)	31.8	119.1	137.0	143.9
DeKalb Ex 26 (2X)	31.9	111.0	111.5	118.3
Funk Bros. G 4350 (2X)	31.9	95.5	101.8	97.6
Super Crost S 19 (2X)	31.9	126.1	142.7	126.8
<sup>1,2,3</sup> Pioneer 3579 (Sp)	32.0	133.3	151.1	155.0
Pioneer 3715 (3X)	32.1	111.7	139.2	137.6
<sup>1,2</sup> Cowbell 112 SX (2X)	32.2	137.6	144.3	128.6
<sup>1,2,3</sup> Northrup King PX 525 (Sp)	32.2	141.4	167.4	170.5
DeKalb XL 315 (3X)	32.0	95.8	118.1	121.2
Wolverine 66 A	32.4	100.1	105.1	121.2
Funk Bros. G 4292 (3X)	32.5	96.7	118.0	94.4
Migro M 110 A	32.5	114.9	117.0	107.3
Funk Bros. G 4222 (2X)	32.5	116.9	129.8	137.1
Michigan 463-3X (3X)	32.5	112.2	113.1	124.7
Cowbell HR 58	32.6	96.6	114.9	120.8
<sup>1,2</sup> Teweles SXT 80 (3X)	32.8	134.1	150.5	124.4
Blaney 6616 (3X)	32.8	110.7	124.3	123.6
<sup>2,3</sup> Pioneer 3773 (2X)	33.0	127.6	160.3	159.8
<sup>1,2</sup> Cowbell SX 206 (2X)	33.1	135.9	145.4	123.2
<sup>1,2,3</sup> Michigan 500-2X (2X)	33.2	145.5	152.9	170.8
<sup>1,2,3</sup> Blaney 6606 A (2X)	33.4	141.4	158.2	160.8
Crib Filler 3425 (3X)	33.4	108.2	113.1	131.4
<sup>1,2</sup> Super Crost S 27 (2X)	33.4	137.3	149.3	122.7
<sup>1</sup> Blaney B 601 (2X)	33.4	138.0	138.2	139.8
Pioneer 3775 (2X)	33.6	113.3	130.5	131.1
<sup>3</sup> Pride R 407 (2X)	33.7	116.8	126.3	144.9
<sup>1,2,3</sup> Michigan 568-3X (3X)	33.7	138.0	147.6	143.9
Teweles SXT 86 (3X)	33.7	108.5	126.8	112.6
DeKalb XL 325 (3X)	33.8	102.1	116.4	110.4
Michigan 550	33.8	122.9	130.4	118.6
P.A.G. 70	34.1	110.3	125.7	126.9
<sup>1,2,3</sup> Northrup King PX 519 (Sp)	34.1	133.4	145.1	169.6
Super Crost 224	34.5	97.5	102.4	126.0
OYO 360 (3X)	34.5	113.4	114.9	132.2
<sup>1,2,3</sup> Crib Filler 22 (2X)	34.8	131.3	159.7	164.3
<sup>1</sup> Pride R 450 (2X)	34.8	134.8	143.5	127.4
Migro M 12 SX (2X)	34.9	93.6	105.8	94.1
DeKalb XL 45 (2X)	35.3	122.8	139.7	136.5
Cowbell 107 SX (2X)	35.5	101.0	114.1	115.9
P.A.G. SX 52 (2X)	35.8	120.9	134.4	122.1
<sup>1,2,3</sup> Super Crost S 30 A (2X)	36.1	130.8	149.5	154.9
Migro M 42-3X (3X)	36.3	117.2	139.7	140.9
<sup>1</sup> P.A.G. 272 (3X)	37.3	132.9	135.3	136.5
<sup>1</sup> Migro M 540	37.6	133.3	126.0	125.2
Average	32.4	117.7	129.4	129.8
	25.7	93.6	94.5	94.1
Range	to	to	to	to
	37.6	141.4	167.4	170.8
Least significant difference	1.5	12.8	14.8	14.0

Table 9. - INGHAM COUNTY TRIAL (Continued)

1 — Significantly better than average yield in 36" rows.

2 — Significantly better than average yield in 30" rows.

3 — Significantly better than average yield in 18" rows.

Planted — May 4 Harvested — Oct. 5

Soil type — Conover clay loam Previous crop — corn

Rows — 36", 30" and 18"

Populations: 36" rows = 19,500; 30" rows = 19,800; 18" rows = 19,300

Fertilizer: 150-60-60

Soil test: P H = 6.6

P = 59 (high) K = 316 (high)

Farm Cooperator: Michigan State University, East Lansing

Table 10 Zone 2  
**SOUTH CENTRAL MICHIGAN**  
**SILAGE - INGHAM COUNTY TRIAL**  
**One Year - 1968**

Hybrid	% Moisture in Ears	Tons Per Acre	% Ears in Dry Weight
	Green Wt.	Dry Wt.	
Michigan 250	37.7	12.1	5.0
Michigan 270	39.0	10.9	4.7
Michigan 300	39.2	12.7	5.7
Michigan 280	39.4	13.6	6.0
Michigan Exp. 65-2003A(2X)	39.4	12.5	5.4
Michigan Exp. 65-2003 (2X)	39.4	12.6	5.4
Northrup King PX 22 (2X)	39.6	11.6	4.7
Funk Bros. G 4287 (3X)	40.7	14.4	5.9
Pioneer 3911 (2X)	41.2	13.8	5.3
Funk Bros. G 4350 (2X)	41.2	9.5	4.0
Michigan 400,	41.2	12.3	5.5
Blaney B 401 (2X)	41.2	13.7	5.4
Michigan 402-2X (2X)	41.5	14.3	5.8
DeKalb XL 306 (3X)	42.0	14.1	5.3
P.A.G. SX 48 (2X)	42.1	11.8	4.7
Weather Master EP 30 (3X)	42.2	11.6	4.5
Pioneer 3799	42.5	12.6	5.1
Michigan 463-3X (3X)	42.7	13.0	5.5
Super Crost S 19 (2X)	42.7	13.8	5.6
Funk Bros. G 4292 (3X)	42.9	13.9	5.2
Blaney B 500 (2X)	43.7	13.7	5.1
Funk Bros. G 4222 (2X)	43.7	16.0	5.8
Funk Bros. G 10 A	43.8	11.6	4.6
Super Crost S 27 (2X)	43.8	14.6	5.8
Crib Filler 3425 (3X)	43.9	16.2	5.9
Northrup King PX 480 (Sp)	44.0	14.3	4.7
DeKalb Ex. 26 (2X)	44.1	13.2	4.7
Cowbell 112 SX (2X)	44.1	16.6	6.0
Funk Bros. G 17 A	44.2	13.6	5.2
Northrup King PX 525 (Sp)	44.3	16.2	5.9
P.A.G. 70	44.3	15.6	5.6
DeKalb XL 315 (3X)	44.4	11.3	4.5
Blaney B 6616 (3X)	44.5	15.4	5.7
Cowbell HR 58	44.6	14.5	5.2
Blaney B 601 (2X)	44.6	16.6	6.3
Migro M 110 A	44.8	13.7	4.8
Michigan 550	44.8	15.5	5.8
Pioneer 3579 (Sp)	44.9	14.5	5.6
Michigan 500-2X (2X)	44.9	17.7	6.1
Cowbell SX 206 (2X)	44.9	14.6	5.4
Teweles SXT 80 (3X)	45.2	16.8	6.1
Pioneer 3715 (3X)	45.3	15.6	5.9
Pioneer 3773 (2X)	45.4	15.7	6.0
Pioneer 3775 (2X)	45.5	15.8	6.0
Wolverine 66 A	45.5	14.1	5.0
DeKalb XL 325 (3X)	45.7	13.4	4.6
P.A.G. SX 52 (2X)	46.0	16.9	5.8
Crib Filler 22 (2X)	46.0	14.5	6.0
Northrup King PX 519 (Sp)	46.3	16.5	5.9
Cowbell 107 SX (2X)	46.4	12.2	4.1

Table 10 - INGHAM COUNTY (Continued)

Hybrid	% Moisture in Ears	Tons Per Acre	% Ears in Dry Weight
		Green Wt.	Dry Wt.
Blaney 6606 A (2X)	46.4	13.9	5.4
Teweles SXT 86 (3X)	46.6	15.3	5.2
Super Crost 224	46.7	12.9	4.5
Michigan 568-3X (3X)	46.7	18.6	6.3
Migro M 42-3X (3X)	46.9	16.7	5.5
DeKalb XL 45 (2X)	47.7	15.7	5.2
Super Crost S 30 A (2X)	48.0	16.9	5.8
Pride R 407 (2X)	48.2	15.9	5.4
Migro M 12 SX (2X)	48.4	16.4	5.4
P.A.G. 272 (3X)	49.1	17.9	6.0
Pride R 450 (2X)	50.4	19.4	6.5
OYO 360 (3X)	51.1	16.8	5.8
Migro M 540	53.3	21.3	6.9
Average	44.2	14.7	5.4
Range	37.7 to 53.3	9.5 to 21.3	4.0 to 6.9
Least significant difference	2.1	1.1	.4
			3.0

Planted - May 4  
Soil Type: Conover clay loam  
Rows - 36"

Harvested - September 19  
Previous crop - Corn  
Plant Population - 19,600

Fertilizer: 150 - 60 - 60  
Soil Test: pH = 6.6, P = 59 (high), K = 316 (high)

Farm Cooperator: Michigan State University, East Lansing

Table 11.

Zone 3

## NORTH CENTRAL MICHIGAN

## SANILAC COUNTY TRIAL

One, Two and Three Year Averages - 1968, 1967, 1965

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging		% Root Lodging	
	1968	2 yrs.	1968	2 yrs.	1968	2 yrs.	1968	2 yrs.
Pioneer 3854 (2X)	20.3	-	109.4	-	4.3	-	0.0	
Michigan 270	20.4	25	108.8	120	105	9.2	7	1.2
Michigan 300	20.5	27	109.8	115	104	4.2	5	0.6
Michigan 250	20.6	26	110.1	117	103	6.9	4	0.0
*Michigan Exp. 65-2003 A (2X)	21.0	-	139.4	-	-	5.3	-	0.0
*Michigan 280	21.4	26	135.4	135	-	2.9	2	0.0
Northrup King PX 417 (3X)	21.8	-	105.3	-	-	2.4	-	0.0
Pride R 129 (3X)	21.9	-	72.6	-	-	16.4	-	0.0
Jacques 900 J	22.1	28	83.6	100	91	4.1	3	0.0
Funk Bros. G 4170 (3X)	22.1	-	78.6	-	-	12.0	-	0.0
Pride 137	22.3	-	102.6	-	-	5.4	-	0.0
*Michigan Exp. 65-2003 (2X)	22.3	-	146.0	-	-	4.3	-	0.0
Northrup King PX 442 (3X)	22.5	-	124.3	-	-	2.4	-	0.0
Wolverine 46 A	22.6	27	122.8	120	109	0.6	1	0.0
P.A.G. SX 48 (2X)	22.9	27	-	122.8	129	-	5.2	3
*Pioneer 3956 (3X)	22.9	-	138.6	-	-	1.2	-	0.0
Funk Bros. G 4287 (3X)	22.9	-	127.4	-	-	2.4	-	0.0
Pioneer 388	23.1	28	121.5	126	109	7.3	4	0.0
Funk Bros. G 4110 (2X)	23.3	-	89.7	-	-	8.9	-	0.0
*Michigan 400	23.3	28	132	135.3	126	113	2.4	2
Northrup King PX 446 (Sp)	23.4	28	-	129.2	122	-	1.8	2
Green Belt 41	23.6	29	-	95.9	113	-	4.2	4
Green Belt 31	23.8	28	-	108.0	120	-	2.9	2
Weather Master EPX-3P (2X)	23.9	-	-	100.3	-	-	1.2	-
*Michigan 402-2X (2X)	24.0	29	32	144.8	140	123	2.3	2
Northrup King PX 22 (2X)	24.0	-	-	106.5	-	-	4.1	-
P.A.G. 41	24.1	29	-	133.0	122	-	1.2	1
*Green Belt SX 362 (2X)	24.6	29	33	142.4	137	114	2.3	2
DeKalb XL 306 (3X)	24.7	-	-	111.1	-	-	3.6	-
Green Belt E 16	24.7	30	-	95.8	101	-	3.0	2
Green Belt 316	24.8	-	-	100.7	-	-	1.7	-
Wolverine 39	24.8	30	32	117.9	118	108	2.3	1
*P.A.G. 45	25.1	30	33	147.7	131	114	2.3	2
Asgrow ATC 45	25.6	-	-	126.6	-	-	0.0	-
DeKalb XL 315 (3X)	25.8	-	-	127.9	-	-	3.0	-

Table 11. - SANILAC COUNTY TRIAL (Continued)

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging		% Root Lodging	
	1968	2 yrs.	1968	2 yrs.	1968	2 yrs.	1968	2 yrs.
Funk Bros. G 17 A	25.9	30	33	130.0	127	114	7.5	4
Funk Bros. G 4350 (2X)	25.9	30	-	95.9	105	-	2.4	2
*Northrup King PX 480 (Sp)	26.0	31	-	155.2	146	-	8.1	6
Weather Master EP 30 (3X)	26.1	31	-	84.6	97	-	0.0	0
Michigan 463-3X (3X)	26.2	33	-	134.6	133	-	7.7	4
*Pioneer 368	26.4	34	36	141.6	123	107	2.9	2
Northrup King PX 487 (3X)	26.7	31	32	108.1	109	101	7.4	7
Weather Master EP 20 (3X)	26.7	-	-	83.5	-	-	0.6	-
*Pioneer 3775 (2X)	27.8	-	-	150.3	-	-	3.0	-
Michigan 550	28.1	33	35	126.7	125	110	3.1	3
*Pioneer 3773 (2X)	28.1	-	-	159.7	-	-	0.0	-
*Michigan 500-2X (2X)	28.4	34	-	154.7	148	-	0.6	0
Average	24.2	29	31	122.1	125	108	3.9	3
Range	20.3	25	27	72.6	97	91	0.0	0
	28.4	34	36	159.7	148	123	16.4	7
Least significant difference	0.7	1	1	13.0	5	4		

\*Significantly better than average yield in 1968.

	1968	1967	1965
Planted	May 6	May 6	May 18
Harvested	Oct. 29	Oct. 26	Nov. 6
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	18,900	17,100	17,500
Rows	30"	36"	36"
Fertilizer	143-70-160	115-60-30	99-55-55
Soil test: pH	6.5	6.8	6.1
P	54 (high)	52 (high)	32 (medium)
K	136 (medium)	175 (medium)	156 (medium)

Farm Cooperator: Orville Orchard, Applegate

County Agricultural Agent: Rex Sieting, Sandusky

Table 12.

Zone 3

**NORTH CENTRAL MICHIGAN**  
**SAGINAW COUNTY TRIAL**  
**One, Two and Three Year Averages — 1968, 1967, 1966**

Hybrid	% Moisture				Bushels Per Acre						% Stalk Lodging				% Root Lodging			
	1968	2 Yrs.	3 Yrs.	1968	19400			24900			19400			24900			19400	
					19400	24900	18300	23500	17700	22600	19400	24900	18300	23500	17700	22600	19400	24900
Pioneer 3854 (2X)	20.8	23	—	90.7	89.3	91	89	—	—	0.0	4.6	0	2	—	—	0.0	0.0	
Pioneer 3956 (2X)	20.8	—	—	90.8	93.3	—	—	—	—	1.5	5.6	—	—	—	—	0.0	0.0	
Michigan Exp. 65-2003 (2X)	21.0	23	—	107.8	119.7	115	120	—	—	4.0	1.2	2	1	—	—	0.8	3.6	
Northrup King PX 417 (3X)	21.2	—	—	69.5	82.1	—	—	—	—	5.6	7.3	—	—	—	—	12.9	1.3	
Northrup King PX 446 (Sp)	21.3	24	24	91.5	87.7	97	96	—	—	0.0	5.3	2	3	—	—	0.0	0.0	
Michigan 270	21.4	23	22	93.1	91.5	96	92	83	80	10.6	13.5	7	8	6	7	8.9	4.7	
<sup>1,2</sup> Michigan Exp. 65-2003 A (2X)	21.5	—	—	114.5	123.2	—	—	—	—	2.3	3.0	—	—	—	—	0.8	2.4	
Pride R 129 (3X)	21.5	—	—	87.5	108.1	—	—	—	—	5.0	10.8	—	—	—	—	0.0	9.6	
Northrup King PX 442 (3X)	21.8	—	—	96.8	114.2	—	—	—	—	1.7	2.4	—	—	—	—	0.9	0.6	
Michigan 250	22.0	24	23	99.0	109.6	100	103	85	87	1.6	1.8	2	2	2	4	4.8	3.0	
Pride R 118 (3X)	22.1	—	—	68.8	77.0	—	—	—	—	34.4	34.7	—	—	—	—	8.0	9.2	
Weather Master EP 10 (3X)	22.6	—	—	78.6	83.6	—	—	—	—	27.8	22.6	—	—	—	—	2.4	0.0	
Michigan 300	22.7	24	24	97.8	95.4	98	95	86	82	0.0	6.0	1	5	3	6	21.0	4.0	
Pioneer 3675	22.7	26	26	97.5	100.6	102	100	91	83	1.5	2.9	2	2	1	2	0.0	1.2	
Northrup King PX 22 (2X)	22.7	—	—	84.0	107.6	—	—	—	—	0.8	3.5	—	—	—	—	0.8	5.2	
DeKalb XL 304 (3X)	22.8	25	24	96.3	97.7	99	98	88	85	8.2	2.3	5	1	7	2	3.2	1.2	
Northrup King PX 480 (Sp)	23.1	26	26	100.4	105.6	108	109	86	86	4.7	1.8	3	3	3	9	0.0	0.0	
Weather Master EPX-3 (2X)	23.1	—	—	90.8	86.0	—	—	—	—	8.3	0.6	—	—	—	—	0.0	6.0	
Pioneer 3911 (2X)	23.1	—	—	112.0	113.5	—	—	—	—	0.8	3.6	—	—	—	—	0.0	6.2	
Jacques 951	23.2	—	—	85.9	104.6	—	—	—	—	0.8	0.6	—	—	—	—	1.6	1.3	
<sup>1</sup> Michigan 280	23.2	24	—	113.6	107.8	112	104	—	—	3.9	3.6	3	3	—	—	12.6	5.3	
Blaney B 500 (2X)	23.2	—	—	110.8	119.9	—	—	—	—	0.0	1.8	—	—	—	—	4.1	0.6	
Pioneer 3799 (3X)	23.3	—	—	103.0	111.5	—	—	—	—	2.4	1.7	—	—	—	—	0.0	1.7	
<sup>2</sup> Blaney B 401 (2X)	23.5	25	—	106.2	120.7	109	112	—	—	0.0	1.2	0	1	—	—	0.0	1.2	
Michigan 400	23.6	26	26	98.3	109.3	102	109	88	93	3.2	0.0	3	1	2	3	0.8	1.2	
Northrup King KE 497	23.8	27	27	104.9	114.6	105	109	92	91	4.8	1.8	3	1	4	3	0.8	1.8	
Funk Bros. G 4287 (3X)	23.8	—	—	110.4	116.3	—	—	—	—	0.8	2.9	—	—	—	—	14.6	1.2	
Michigan 402-2X (2X)	24.0	26	26	111.3	115.4	116	121	101	100	2.4	2.3	1	2	1	2	2.3	0.6	
Weather Master EPX-4 (2X)	24.0	—	—	91.5	105.4	—	—	—	—	0.8	0.0	—	—	—	—	7.4	3.6	
Funk Bros. G 10 A	24.4	26	—	102.8	93.8	103	94	—	—	1.6	1.2	—	—	—	—	12.6	12.9	
<sup>2</sup> Weather Master EPX-5 (2X)	24.5	—	—	103.5	124.8	—	—	—	—	1.6	2.4	—	—	—	—	2.3	0.6	
Weather Master EP 40 (3X)	24.6	—	—	90.5	105.9	—	—	—	—	0.0	0.6	—	—	—	—	0.0	0.0	
Weather Master EP 30 (3X)	24.7	27	—	89.4	80.6	99	94	—	—	2.5	3.6	2	2	—	—	2.5	1.8	
<sup>1</sup> Super Crost S 19 (2X)	24.8	—	—	116.0	118.4	—	—	—	—	0.0	0.6	—	—	—	—	4.8	0.0	
Northrup King PX 487 (3X)	24.9	—	—	89.9	89.8	—	—	—	—	1.6	3.2	—	—	—	—	12.3	0.0	
Green Belt E 16	24.9	—	—	73.2	93.3	—	—	—	—	1.6	0.0	—	—	—	—	0.0	0.0	
Michigan 463-3X (3X)	25.0	27	28	99.2	105.9	111	113	96	96	6.3	2.4	4	2	3	3	3.1	3.6	
Wolverine 39	25.1	—	—	96.9	105.2	—	—	—	—	0.8	1.8	—	—	—	—	0.0	0.0	
Pride R 200 (2X)	25.1	—	—	101.9	99.7	—	—	—	—	1.6	3.0	—	—	—	—	8.1	0.0	
Green Belt SX 362 (2X)	25.1	—	—	105.8	116.9	—	—	—	—	2.4	0.0	—	—	—	—	1.6	1.3	
DeKalb XL 15 (2X)	25.1	27	27	99.6	96.2	110	103	91	85	10.5	1.2	6	3	7	7	0.0	0.0	
P.A.G. 41	25.3	—	—	68.0	78.3	—	—	—	—	1.6	3.8	—	—	—	—	1.6	1.3	
Funk Bros. G-18 A	25.7	28	27	100.8	94.3	103	97	89	83	4.7	1.8	2	1	2	3	0.0	4.9	
Pioneer 368	25.8	28	28	111.2	102.8	112	105	94	86	0.8	1.2	0	1	1	2	10.6	0.0	
Super Crost 201	25.9	—	—	101.1	108.6	—	—	—	—	3.3	0.6	—	—	—	—	0.0	0.6	
<sup>2</sup> Blaney 6606 A (2X)	25.9	—	—	112.6	126.6	—	—	—	—	1.6	0.6	—	—	—	—	4.0	0.0	
<sup>1</sup> Pioneer 3715 (3X)	26.3	28	—	124.6	113.5	126	110	—	—	0.0	1.2	0	1	—	—	1.6	0.6	
Michigan 550	26.3	28	28	98.2	119.5	108	115	96	96	1.7	0.6	1	2	1	2	0.8	0.6	
DeKalb XL 325 (3X)	26.6	29	28	106.4	95.3	117	109	102	95	0.8	0.0	0	0	1	1	0.0	0.0	
Funk Bros. G 17 A	26.7	28	—	93.9	99.0	98	101	—	—	0.8	0.0	2	1	—	—	19.7	19.4	
<sup>1,2</sup> Michigan 500 - 2X (2X)	26.7	29	29	123.5	133.9	123	127	109	113	0.8	0.6	1	2	1	2	2.3	0.6	
Blaney 6616 (3X)	26.8	—	—	107.0	118.1	—	—	—	—	0.8	0.0	—	—	—	—	0.0	0.0	
Funk Bros. G 4292 (3X)	26.8	—	—	106.1	100.6	—	—	—	—	1.6	1.1	—	—	—	—	0.0	1.1	
<sup>1,2</sup> Funk Bros. G 4333 (2X)	26.9	—	—	121.0	130.8	—	—	—	—	0.8	0.0	—	—	—	—	0.0	4.7	
<sup>1,2</sup> Pioneer 3773 (2X)	27.0	29	28	114.7	131.6	112	125	91	98	0.9	0.0	1	0	1	0	3.5	0.0	

Table 12 NORTH CENTRAL MICHIGAN (Continued)

Hybrid	% Moisture				Bushels Per Acre				% Stalk Lodging				% Root Lodging				
	1968	2 Yrs.	3 Yrs.	1968	19400	24900	18300	23500	17700	22600	19400	24900	18300	23500	17700	22600	19400
Pioneer 3775 (2X)	27.1	29	—	92.5	112.0	102	114	—	—	0.0	0.0	0	1	—	—	7.2	1.8
Pioneer 371	27.2	—	—	111.6	109.0	—	—	—	—	0.8	1.2	—	—	—	—	1.6	0.0
1.2 Michigan 568-3X (3X)	27.4	—	—	123.0	125.9	—	—	—	—	0.8	1.2	—	—	—	—	0.0	1.2
<sup>2</sup> DeKalb XL 45 (2X)	28.9	31	30	110.9	124.6	113	118	101	101	0.0	0.0	1	1	1	1	0.0	0.0
<sup>1</sup> Pride R 407 (2X)	29.1	31	—	118.5	115.4	120	113	—	—	0.8	1.7	0	1	—	—	2.3	2.3
Average	24.5	27	26	101.9	108.0	109	109	93	91	3.1	3.0	2	2	3	3	3.7	2.3
Range	20.8	23	22	68.0	77.0	91	89	83	80	0.0	0.0	0	0	1	0	0.0	0.0
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	29.3	32	30	123.5	133.9	126	127	109	113	34.4	34.7	7	8	7	9	21.0	19.4
Least Significant Difference	1.1	1	1	11.2	12.1	5	5	4	4								

1 — Significantly better than average yield at 19,400 population in 1968.

2 — Significantly better than average yield at 24,900 population in 1968.

	1968	1967	1966
Planted	May 7	May 3	May 5
Harvested	Oct. 22	Nov. 2	Oct. 23
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Oats seeded to clover	Beets	Corn
Rows	30"	36"	36"
Populations	19,400 and 24,900	17,200 and 22,000	16,500 and 20,800
Fertilizer	119-112-54	21-84-42	21-84-42
Soil test: PH	7.3	7.1	7.1
P	50 (high)	94 (high)	71 (high)
K	157 (medium)	505 (very high)	259 (high)

Farm Cooperators: Walter Reinbold and Sons, Reese

County Agricultural Agent: Ray Vasold, Saginaw

Table 13.

Zone 3

NORTH CENTRAL MICHIGAN

GRAIN — HURON COUNTY TRIAL

One, Two and Three Year Averages — 1968, 1967, 1966

Hybrid	% Moisture		Bushels Per Acre	% Stalk Lodging	% Root Lodging												
	2	3															
	1968	yrs.															
Michigan 270	19.5	24	24	34.4	75	37.3	21	19	0.0								
Michigan 250	20.6	26	25	41.7	77	71	30.6	17	14	0.0							
*Michigan 280	20.9	26	—	48.1	93	—	22.8	12	—	0.0							
Michigan Exp. 65-2003 A(2X)	21.0	—	—	44.5	—	—	42.1	—	—	0.0							
Northrup King PX 417 (3X)	21.5	—	—	28.1	—	—	43.3	—	—	0.0							
Pioneer 3854 (2X)	21.7	—	—	30.9	—	—	26.8	—	—	0.0							
Michigan Exp. 65-2003 (2X)	21.8	—	—	46.3	—	—	39.1	—	—	0.0							
Pioneer 3956 (2X)	21.8	—	—	28.1	—	—	26.5	—	—	0.0							
Northrup King PX 442 (3X)	22.3	—	—	27.5	—	—	16.7	—	—	0.0							
Pride R 129 (3X)	22.4	—	—	35.7	—	—	62.2	—	—	0.0							
Funk Bros. G 4170 (3X)	22.4	—	—	28.4	—	—	35.5	—	—	0.0							
P.A.G. SX 47 (2X)	22.4	—	—	40.5	—	—	40.0	—	—	0.0							
Michigan 300	22.4	27	27	41.0	80	75	28.4	16	15	0.0							
*Green Belt 41	22.7	27	26	48.5	85	74	46.4	26	22	0.0							
Funk Bros. G 43	22.7	—	—	28.7	—	—	43.3	—	—	0.0							
Pride R 118 (3X)	22.8	—	—	34.2	—	—	69.9	—	—	0.0							
Northrup King X 122 (2X)	22.9	—	—	24.1	—	—	25.3	—	—	0.0							
Green Belt 31	23.2	—	—	31.3	—	—	40.0	—	—	0.0							
Pioneer 388	23.2	—	—	40.4	—	—	38.2	—	—	0.0							
*P.A.G. SX 48 (2X)	23.9	—	—	49.3	—	—	59.2	—	—	0.0							

Table 13. — HURON COUNTY (Continued)

Hybrid	% Moisture		Bushels Per Acre	% Stalk Lodging	% Root Lodging					
	2	3								
	1968	yrs.								
*Michigan 402-2X (2X)	23.9	29	28	48.2	86	82	34.1	19	14	0.0
*Northrup King PX 446 (Sp)	23.9	29	—	50.5	87	—	54.5	27	—	0.0
P.A.G. 45	23.9	29	28	29.4	72	67	38.2	19	16	0.0
*Northrup King PX 22 (2X)	24.0	—	—	47.3	—	—	32.5	—	—	0.0
*Michigan 400	24.0	29	28	49.3	86	80	10.5	6	5	0.0
Haapala SX 205 (2X)	24.1	—	—	35.4	—	—	40.8	—	—	0.0
Jacques 951	24.2	28	—	45.9	82	—	24.4	16	—	0.0
Wolverine 46 A	24.3	29	29	35.1	79	70	19.4	10	10	0.0
Funk Bros. G 4287 (3X)	24.4	—	—	33.2	—	—	29.0	—	—	0.0
*Super Crost S 19 (2X)	24.6	—	—	50.4	—	—	31.1	—	—	0.0
Teweles 232	24.7	—	—	29.5	—	—	30.4	—	—	0.0
P.A.G. 38	24.7	—	—	43.2	—	—	39.7	—	—	0.0
Pioneer 3911 (2X)	24.8	—	—	31.9	—	—	57.3	—	—	0.0
Pioneer 3675	25.0	28	28	28.3	67	58	16.1	9	9	0.0
Weather Master EP 30 (3X)	25.1	—	—	26.7	—	—	29.7	—	—	0.0
DeKalb XL 306 (3X)	25.4	30	28	31.6	68	70	18.7	9	11	0.0
Jacques 1051 E	25.6	—	—	40.9	—	—	17.2	—	—	0.0
Funk Bros. G 4350 (2X)	26.2	30	—	28.4	80	—	23.1	12	—	0.0
*DeKalb XL 15 (2X)	26.4	—	—	46.6	—	—	18.8	—	—	0.0
Michigan 463-3X (3X)	26.4	31	30	38.9	86	82	24.7	12	10	0.0
Green Belt 316	26.4	—	—	42.8	—	—	28.7	—	—	0.0
Northrup King PX 480 (Sp)	26.5	30	29	34.4	84	74	40.4	21	22	0.0
Funk Bros. G 17 A	26.5	30	29	36.2	81	77	27.9	16	14	0.0
Michigan 550	26.6	32	31	37.6	80	77	9.6	7	5	0.0
Green Belt SX 362 (2X)	26.7	31	—	41.6	93	—	36.3	18	—	0.0

Table 13. - HURON COUNTY (Continued)

Hybrid	% Moisture			Bushels	% Stalk	% Root	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.
	2	3	2	3	2	3			
	1968	yrs.	1968	yrs.	1968	yrs.			
P.A.G. 41	26.8	30	28	40.0	80	82	19.3	11	12 0.0
Pioneer 3775 (2X)	26.8	31	-	42.5	79	-	14.8	7	- 0.0
Northrup King KE 497	26.9	-	-	24.3	-	-	15.7	-	- 0.0
Funk Bros. G 10 A	27.0	29	28	28.4	68	63	21.1	16	14 0.0
Green Belt E 16	27.4	-	-	38.9	-	-	40.2	-	- 0.0
*Michigan 500-2X (2X)	27.4	31	31	49.8	99	95	16.1	8	6 0.0
*Jacques JX 1063 (3X)	27.5	-	-	54.4	-	-	16.2	-	- 0.0
*Pioneer 3773 (2X)	27.5	31	31	62.6	95	84	25.5	18	14 0.0
Jacques JX 122 (2X)	27.5	-	-	29.7	-	-	13.5	-	- 0.0
Jacques JX 202 (2X)	27.9	-	-	42.5	-	-	26.9	-	- 0.0
Green Belt 12 A	28.4	33	-	34.2	70	-	17.6	10	- 0.0
*Michigan 568-3X (3X)	28.6	34	-	64.3	99	-	14.0	8	- 0.0
Super Crost 224	28.8	-	-	32.2	-	-	7.6	-	- 0.0
Super Crost S 27 (2X)	29.0	-	-	43.0	-	-	25.1	-	- 0.0
WeatherMaster EPX-6(2X)	30.0	-	-	31.5	-	-	14.9	-	- 0.0
*Jacques JX 1052 (2X)	30.5	35	-	48.4	89	-	12.7	6	- 0.0
*DeKalb XL 45 (2X)	30.8	35	34	55.9	90	84	12.0	6	5 0.0
Average	25.0	30	29	40.1	84	76	29.0	14	12 0.0
Range	19.5	24	24	24.1	67	58	6.8	6	5
	to	to	to	to	to	to	to	to	to
	30.8	35	34	64.3	99	95	69.9	27	22
Least significant difference	1.0	1	1	6.6	5	4			

Significantly better than average yield in 1968.

	1968	1967	1966
Planted	May 1	May 2	May 4
Harvested	Oct. 19	Oct. 21	Oct. 27
Soil type	Brookston loam	Brookston loam	Brookston loam
Previous crop	Corn	Corn	Corn
Population	19,600	18,300	17,500
Rows	30**	36**	36**
Fertilizer	165 115 240	170 126 105	128 112 56
Soil test: P <sup>H</sup>	7.5	7.4	7.4
P	116 (very high)	83 (high)	63 (high)
K	295 (high)	289 (high)	186 (high)

Farm Cooperator: William McCrea, Bad Axe

County Agricultural Agent: Lee Warschefsky, Bad Axe

Table 14.

Zone 3

**NORTH CENTRAL MICHIGAN****SILAGE - HURON COUNTY TRIAL**

One, Two and Three Year Averages - 1968, 1967, 1966

Hybrid	% Moisture in Ears			Tons Per Acre			% Ears in Dry Weight		
	2	3	2	3	2	3	2	3	
	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	
Michigan 270	35.6	40	37	9.4	16.2	14.6	3.4	5.8	5.8 41.8 45 47
Michigan 280	36.7	41	-	14.7	19.7	-	5.7	7.1	- 36.6 43
Northrup King PX417 (3X)	36.8	-	-	8.4	-	-	3.7	-	- 35.8 -
Michigan 250	36.9	41	39	15.0	18.9	16.6	4.7	6.3	6.1 32.8 40 41
Mich. Exp. 65-2003A (2X)	37.2	-	-	11.0	-	-	4.6	-	- 44.8 -
Mich. Exp. 65-2003 (2X)	38.0	-	-	11.4	-	-	4.5	-	- 42.2 -
Green Belt 41	39.4	44	41	10.8	15.3	13.9	4.2	5.5	5.4 47.3 50 49
Michigan 300	39.5	45	42	12.3	17.0	15.6	3.9	6.0	6.0 35.4 42 44
Pioneer 3854 (2X)	40.2	-	-	10.5	-	-	4.0	-	- 41.0 -
Jacques 951	42.4	43	-	13.4	16.8	-	3.9	5.9	- 41.9 45 -
Pride R 129 (3X)	42.4	-	-	9.4	-	-	3.7	-	- 46.1 -
Pride R 118 (3X)	42.6	-	-	8.3	-	-	3.3	-	- 42.0 -
Haapala SX 205 (2X)	42.8	-	-	9.8	-	-	3.6	-	- 42.3 -
Pioneer 388	43.0	-	-	10.5	-	-	4.0	-	- 40.8 -
P.A.G. SX 47 (2X)	43.5	-	-	10.5	-	-	4.0	-	- 48.4 -

Table 14 - HURON COUNTY TRIAL (Continued)

Hybrid	% Moisture in Ears			Tons Per Acre			% Ears in Dry Weight		
	2	3	2	3	2	3	2	3	
	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	1968 yrs. yrs.	
Funk Bros. G 43	43.7	-	-	8.6	-	-	3.4	-	- 41.2 -
P.A.G. SX 48 (2X)	43.8	-	-	12.6	-	-	4.9	-	- 41.8 -
Pioneer 3956 (2X)	43.8	-	-	10.3	-	-	4.3	-	- 30.3 -
P.A.G. 38	44.4	-	-	9.4	-	-	3.4	-	- 38.8 -
Funk Bros. G 4287 (3X)	44.9	-	-	13.4	-	-	4.8	-	- 35.8 -
Michigan 400	45.9	48	45	14.9	17.7	16.7	4.1	5.9	6.2 38.1 42 45
Northrup King X 122 (2X)	46.0	-	-	11.3	-	-	3.9	-	- 38.5 -
Funk Bros. G 4170 (3X)	46.5	-	-	9.1	-	-	3.4	-	- 37.9 -
Pioneer 3911 (2X)	46.6	-	-	11.2	-	-	3.9	-	- 38.0 -
Green Belt 31	46.6	-	-	10.2	-	-	3.9	-	- 40.0 -
Michigan 402-2X (2X)	46.9	48	45	14.9	19.0	17.6	4.8	6.7	6.7 45.3 48 49
Funk Bros. G 10 A	46.9	47	45	13.4	16.9	15.5	4.2	5.6	5.5 31.0 41 42
Northrup King PX 442 (3X)	47.0	-	-	11.1	-	-	3.9	-	- 28.7 -
Northrup King PX 22 (2X)	47.0	-	-	12.3	-	-	4.1	-	- 43.0 -
Northrup King PX 446 (Sp)	47.0	46	-	12.1	15.5	-	4.8	6.0	- 30.6 41 -
Teweles 232	47.8	-	-	9.2	-	-	3.3	-	- 33.1 -
Wolverine 46 A	48.4	48	45	12.3	15.8	14.2	4.1	5.4	5.2 33.3 42 41
Funk Bros. G 4350 (2X)	48.5	48	-	12.3	16.5	-	3.5	5.3	- 33.8 40 -
Green Belt E 16	48.6	-	-	10.0	-	-	3.4	-	- 42.8 -
Northrup King PX 480 (Sp)	48.7	50	46	15.3	19.4	17.6	4.7	6.4	6.3 36.9 41 42
P.A.G. 45	49.3	50	47	14.1	18.5	16.3	4.5	6.2	5.8 37.4 43 44
Michigan 463-3X	49.4	50	48	15.0	18.5	17.8	4.5	6.8	6.9 40.5 44 44
Jacques JX 122(2X)	49.8	-	-	15.1	-	-	5.1	-	- 30.1 -
Pioneer 3775 (2X)	49.9	51	-	14.9	19.0	-	4.4	6.2	- 30.6 36 -
P.A.G. 41	50.1	48	45	17.6	20.2	17.8	4.9	6.7	6.4 37.4 41 43
Funk Bros. G 17 A	50.2	50	46	15.5	19.1	18.0	4.4	6.1	6.5 27.2 35 37
Weather Master EP30 (3X)	50.5	-	-	9.8	-	-	3.2	-	- 38.6 -
Pioneer 3675	50.8	51	48	14.5	18.8	17.4	4.9	6.3	6.4 21.3 34 37
De Kalb XL 306(3X)	51.3	50	47	15.0	17.6	17.0	4.3	5.6	6.1 38.5 43 43
Super Crost S19 (2X)	51.7	-	-	12.7	-	-	4.0	-	- 25.4 -
Northrup King KE 497	51.7	-	-	13.8	-	-	4.0	-	- 26.8 -
Green Belt SX 362 (2X)	52.0	49	-	14.4	18.1	-	4.5	6.2	- 34.4 41 -
Michigan 500-2X(2X)	52.1	52	48	17.1	20.4	18.9	4.7	6.5	6.7 35.8 42 44
Jacques JX 1063 (3X)	52.4	-	-	16.1	-	-	5.0	-	- 24.3 -
Super Crost S27(2X)	52.5	-	-	19.5	-	-	5.9	-	- 27.7 -
Michigan 568-3X (3X)	52.5	54	-	17.6	22.4	-	5.6	7.2	- 33.8 41 -
Michigan 550	52.8	52	49	16.8	20.5	18.9	4.8	6.8	6.7 35.0 42 43
De Kalb XL 15 (2X)	52.8	-	-	14.0	-	-	4.3	-	- 42.1 -
Jacques JX 202 (2X)	54.4	-	-	15.3	-	-	4.3	-	- 30.0 -
Jacques JX 1052 (2X)	54.9	55	-	17.1	22.3	-	4.8	6.7	- 32.1 39 -
Green Belt 316	55.6	-	-	12.6	-	-	4.3	-	- 43.2 -
Pioneer 3773 (2X)	55.9	54	50	17.2	19.4	17.9	5.2	6.4	6.5 34.9 42 43
De Kalb XL 45(2X)	55.9	55	51	15.5	19.1	18.0	4.0	5.9	6.2 29.9 39 41
Jacques 1051 E	56.0	-	-	11.9	-	-	3.2	-	- 22.4 -
Weather Master EPX-6 (2X)	56.1	-	-	12.7	-	-	3.7	-	- 24.5 -
Green Belt 12 A	56.9	55	-	12.7	18.1	-	3.4	5.7	- 26.6 34 -
Super Crost 224	60.7	-	-	11.2	-	-	3.0	-	- 16.4 -
Average	47.9	49	46	13.1	18.7	16.9	4.2	6.2	6.2 36.3 41 43
Range	35.6	40	37	8.3	15.3	13.9	3.0	5.3	5.2 16.4 34 37
	to	to	to	to	to	to	to	to	to
	60.7	55	51	19.5	22.4	18.9	5.9	7.2	6.9 48.4 50 49
Least significant difference	2.3	1.7	1.3	1.3	0.9	0.6	.4	.3	.3 2.4 2 2

Table 14 - HURON COUNTY TRIAL (Continued)

	<u>1968</u>	<u>1967</u>	<u>1966</u>
Planted	May 1	May 2	May 4
Harvested	Sept. 12	Sept. 12	Sept. 19
Soil type	Brookston loam	Brookston loam	Brookston loam
Previous crop	Corn	Corn	Corn
Rows	30"	36"	36"
Population	19,300	18,100	17,500
Fertilizer	165-115-240	170-126-105	128-112-56
Soil test: pH	7.5	7.4	7.4
P	116 (very high)	83 (high)	63 (high)
K	295 (high)	289 (high)	186 (high)

Farm Cooperator: William McCrea, Bad Axe  
Count Agricultural Agent: Lee Warschefsky, Bad Axe

Table 15.

**NORTH CENTRAL MICHIGAN  
MONTCALM COUNTY TRIAL**  
Irrigated versus Not Irrigated  
One Year - 1968

Zone 3

Table 15 - MONTCALM COUNTY (Continued)

	%	Bu. per Acre	% Stalk Lodg.	% Root Lodg.			
Hybrid	Moisture	Irrig.	Not Irrig.	Irrig.	Not Irrig.	Irrig.	Not Irrig.
Teweles SXT 75 (3X)	30.1	127.0	91.4	0.0	0.0	0.0	0.0
Pioneer 368	30.1	156.7	106.8	2.4	3.5	4.9	0.0
De Kalb XL 45 (2X)	31.6	159.8	105.4	0.0	1.6	0.0	3.2
Average	27.2	136.1	96.0	1.1	4.3	0.3	0.3
Range	22.0 to 31.6	92.2 to 180.4	65.4 to 118.5	0.0 to 5.0	0.0 to 13.9	0.0 to 4.9	0.0 to 4.3
Least significant difference	1.1	14.2	8.9				

<sup>1</sup>Significantly better than average yield, irrigated.

<sup>2</sup>Significantly better than average yield, not irrigated.

Farm Cooperator: Theron Comden, M.S.U. Montcalm Experimental Farm, Entrican  
County Agricultural Agent: James Crosby, Stanton

Table 16.

### Zone 3

**NORTH CENTRAL MICHIGAN  
NEWAYGO COUNTY TRIAL**

**One, Two and Three Year Averages – 1968, 1967, 1966**

Hybrid	Moisture			Bushels Per Acre		% Stalk Lodging		% Root Lodging		
	2	3	1968 yrs.	2	3	1968 yrs.	2	3	1968 yrs.	
	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	
Michigan 270	20.9	26	25	91.4	92	93	4.0	2	5	0.0
Michigan 250	21.0	27	26	92.2	95	93	2.5	1	2	0.0
*Michigan Exp. 65-2003 (2X)	21.6	—	—	114.2	—	—	0.0	—	—	0.0
Michigan Exp. 65-2003A (2X)	21.6	—	—	110.6	—	—	3.3	—	—	0.0
Michigan 280	22.3	28	—	100.9	106	—	1.2	1	—	0.0
Northrup King PX 442 (3X)	22.6	—	—	88.2	—	—	0.0	—	—	0.0
Michigan 300	22.9	28	27	101.8	104	100	1.3	1	3	0.0
Pride R 118 (3X)	23.0	—	—	109.6	—	—	1.9	—	—	0.0
Northrup King PX 417 (3X)	23.2	—	—	73.0	—	—	1.4	—	—	0.0
P.A.G. SX 48 (2X)	23.8	—	—	95.2	—	—	0.7	—	—	0.0
P.A.G. SX 47 (2X)	23.8	—	—	82.3	—	—	0.7	—	—	0.0
Funk Bros. G 43	24.0	—	—	71.6	—	—	1.3	—	—	0.0
Funk Bros. G 4170 (3X)	24.3	28	—	72.3	71	—	2.9	2	—	0.0
Pioneer 3956 (2X)	25.1	—	—	109.2	—	—	1.8	—	—	0.0
P.A.G. 38	25.4	—	—	101.2	—	—	3.1	—	—	0.0
Michigan 400	25.4	31	29	110.0	103	102	1.2	1	1	0.0
*Michigan 402-2X (2X)	25.7	—	—	121.0	—	—	1.9	—	—	0.0
Funk Bros. G 10 A	25.8	30	30	92.8	103	104	0.0	0	4	0.0
Pioneer 3854 (2X)	25.9	30	28	80.4	92	90	0.0	0	1	0.0
Northrup King PX 446 (Sp.)	25.9	30	—	89.3	96	—	0.0	0	—	0.0
Tomco 2600-2X	26.0	—	—	89.8	—	—	1.9	—	—	0.0
Michigan 463-3X (3X)	26.0	32	—	106.3	111	—	2.6	1	—	0.0
Teweles 263	26.1	—	—	79.4	—	—	1.9	—	—	0.0
*Pioneer 3911 (2X)	26.3	31	—	127.0	114	—	0.6	0	—	0.0
*Cowbell SX 102 (2X)	26.3	—	—	128.1	—	—	1.8	—	—	0.0
DeKalb XL 306 (3X)	26.3	31	29	98.8	105	102	0.6	0	1	0.0
Funk Bros. G 4287 (3X)	26.5	31	29	107.4	110	112	1.2	1	2	0.0
Northrup King PX 22 (2X)	26.7	—	—	100.5	—	—	0.0	—	—	0.0
Funk Bros. G 4350 (2X)	26.9	34	32	85.8	94	95	0.0	0	0	0.0
Pioneer 3675	27.2	32	30	93.7	91	99	1.3	1	1	0.0
Northrup King PX 480 (Sp.)	27.2	34	32	103.5	110	103	4.8	2	8	0.0
Pioneer 385	27.6	32	30	93.9	103	103	0.0	0	2	0.0
DeKalb XL 15 (2X)	27.8	31	30	92.8	96	99	0.8	0	6	0.0
Tomco 144	27.9	34	—	91.9	91	—	0.0	0	—	0.0
Tomco 180	28.1	32	—	78.5	89	—	1.3	1	—	0.0

Table 16 - NEWAYGO COUNTY TRIAL (Continued)

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging		% Root Lodging	
	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.
Funk Bros. G 17 A	28.3	33	32	88.0	92	93	0.0	0 0 0 0.0
DeKalb XL 315 (3X)	28.5	34	32	104.1	99	98	0.6	0 3 0 0.0
Northrup King KE 497	28.9	-	-	100.7	-	-	0.0	- - 0.0
Tomco 160	28.9	-	-	91.5	-	-	1.5	- - 0.0
*Northrup King PX 525 (Sp)	29.0	-	-	129.4	-	-	1.2	- - 0.0
*Pioneer 3773 (2X)	29.6	35	-	135.4	114	-	0.0	0 - 0.0
*Michigan 500-2X (2X)	29.9	35	33	133.0	119	119	0.0	0 0 0 0.0
Michigan 550	30.9	35	33	109.1	105	113	0.0	0 1 0.0
Average	26.1	31	30	102.2	101	101	1.2	1 2 0.0
Range	20.9	26	25	71.6	71	90	0.0	0 0 0
	to	to	to	to	to	to	to	to
	30.9	35	33	135.4	119	119	4.8	2 8
Least significant difference	0.9	1	1	11.2	5	4		

\*Significantly better than average yield in 1968.

	1968	1967	1966
Planted	May 10	May 21	May 19
Harvested	Oct. 29	Nov. 8	Nov. 4
Soil type	Selkirk loam	Selkirk loam	Selkirk loam
Previous crop	Corn	Corn	Corn
Population	18,800	17,500	16,700
Rows	30"	36"	36"
Fertilizer	18-72-36	100-84-42	121-84-42
Soil test: pH	7.2	7.3	7.2
P	28 (medium)	62 (high)	23 (medium)
K	179 (medium)	187 (high)	108 (low)
Farm Cooperator:	Ivan Norris, Hesperia		
County Agricultural Agent:	Lane Rushmore, Fremont		

Table 17.

**NORTHERN MICHIGAN**  
**GRAND TRAVERSE COUNTY**  
(1966 Trial not harvested for grain yields)

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging		% Root Lodging	
	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.	2 1968	3 yrs.
Michigan 200	22.0	25	29	66.3	70	65	12.3	7 8 0.0
A.E.S. 202	22.5	25	28	61.9	63	57	16.1	8 21 0.0
Funk Bros. G 43	23.7	-	-	61.8	-	-	17.4	- - 0.0
Northrup King PX 417 (3X)	23.9	-	-	62.5	-	-	10.3	- - 0.0
Michigan 270	23.9	27	32	73.8	70	63	18.3	9 17 0.0
Pride R 118 (3X)	23.9	-	-	63.6	-	-	16.1	- - 0.0
Michigan 250	24.3	27	-	76.1	72	-	4.7	4 - 0.0
DeKalb 45	24.8	28	33	74.7	70	63	7.9	4 6 0.0
*Michigan Exp. 65-2003 (2X)	25.0	-	-	96.8	-	-	1.8	- - 0.0
*Michigan Exp. 65-2003A(2X) 25.1	-	-	-	89.4	-	-	2.5	- - 0.0
Northrup King KE 435	25.7	27	32	64.3	60	53	41.7	24 26 0.0
Pioneer 3959 (3X)	25.8	-	-	64.0	-	-	6.4	- - 0.0
Michigan 280	25.8	28	-	76.5	75	-	3.7	2 - 0.0
Northrup King PX 442 (3X)	25.8	-	-	77.2	-	-	3.7	- - 0.0
Pioneer 3956 (2X)	26.2	28	-	81.0	79	-	1.8	1 - 0.0
Michigan 300	26.2	29	34	72.9	74	66	8.7	5 13 0.0
Funk Bros. G 4170 (3X)	27.2	29	-	58.6	59	-	17.0	9 - 1.4
Northrup King PX 446	27.6	29	-	72.4	68	-	3.6	2 - 0.0
Pride 232	29.7	33	-	64.4	65	-	5.5	3 - 0.0
Haapala SX 420 (3X)	33.7	39	-	63.1	56	-	0.6	1 - 0.0
Average	25.9	28	31	74.0	71	61	8.7	5 15 0.1
Range	22.0	25	28	58.7	56	53	0.6	1 6 0.0
	to	to	to	to	to	to	to	to
	33.7	38	34	89.4	79	66	41.7	24 26 1.4
Least significant difference	1.1	1	1	8.8	5	4		

Table 17 - GRAND TRAVERSE COUNTY TRIAL (Cont.)

\*Significantly better than average yield in 1968

	1968	1967	1965
Planted	May 13	May 23	May 14
Harvested	Nov. 4	Oct. 25	Nov. 16
Soil type	Emmett sandy loam	Emmett Sandy loam	Emmett sandy loam
Previous crop	Corn	Corn	Corn
Population	17,800	18,000	17,000
Rows	38"	38"	38"
Fertilizer	149-82-162	81-81-81	120-120-120
Soil test: pH	6.2	5.9	6.8
P	67 (high)	62 (high)	49 (high)
K	139 (medium)	171 (medium)	113 (low)
Farm Cooperator:	Karl Wagner, Grawn		
County Agricultural Agent:	George McManus, Traverse City		

Table 18.

Zone 4

**NORTHERN MICHIGAN**  
**GRAIN - ALPENA COUNTY TRIAL**  
One and Two Year Averages - 1968 and 1967

Hybrid	% Moisture		Bushels Per Acre		% Stalk Lodging		% Root Lodging	
	1968	2 yrs.	1968	2 yrs.	1968	2 yrs.	1968	2 yrs.
Trojan TX 68	26.9	-	76.0	-	0.0	-	0.0	-
*Michigan 200	29.3	32	129.8	105	0.0	2	0.0	-
A.E.S. 202	30.0	33	124.7	101	0.0	1	0.0	-
Northrup King PX 417 (3X)	30.0	-	106.5	-	0.0	-	0.0	-
Pioneer PXE-1	30.0	-	32.6 <sup>1</sup>	-	0.0	-	0.0	-
Seneca SR 155	31.1	34	109.4	89	0.0	0	0	0.0
Seneca XX 155	32.0	34	118.8	94	0.0	0	0	0.0
Weather Master EP 10 (3X)	33.3	36	118.8	98	0.0	1	0.0	-
Funk Bros. G 43	34.1	36	122.8	99	0.0	1	0.0	-
*Northrup King PX 446 (Sp)	34.9	38	138.2	106	0.0	2	0.0	-
DeKalb XL 301 (3X)	34.9	-	99.8	-	0.0	-	0.0	-
Michigan 270	35.6	39	125.7	99	0.0	1	0.0	-
Pride 137	36.0	39	137.4	106	0.0	2	0.0	-
*Pioneer 3956 (2X)	36.1	37	140.2	109	0.0	1	0.0	-
DeKalb XT 138	36.7	41	112.6	84	0.0	2	0.0	-
*Michigan 280	36.8	41	139.4	106	0.0	0	0	0.0
Pioneer 3959 (3X)	36.9	-	122.0	-	0.0	-	0.0	-
Northrup King PX 442 (3X)	36.9	-	121.8	-	0.0	-	0.0	-
Michigan 250	37.0	40	125.8	99	0.0	0	0	0.0
Funk Bros. G 10 A	39.6	41	119.4	98	0.0	1	0.0	-
Average	34.6	37	116.2	99	0.0	1	0.0	-
	26.9	32	32.6	84	0			
Range	to	to	to	to	to	to	to	
	39.6	41	140.2	109	2			
Least significant difference	1.8	5	10.7	4				

\*Significantly better than average yield in 1968.

<sup>1</sup>Damaged by racoons.

	1968	1967
Planted	May 21	May 17
Harvested	Oct. 17	Nov. 7
Soil type	Onaway loam	Onaway sandy loam
Previous crop	Wheat	Beans
Population	21,300	17,200
Rows	28"	28"
Fertilizer	120-72-72	30-30-30
Farm Cooperators: 1968 = William Bartow, Alpena; 1967 = A.H. Nickels, Alpena		
County Agricultural Agent: A.H. Nickels, Alpena		

Table 19 NORTHERN MICHIGAN Zone 4  
SILAGE - ALPENA COUNTY TRIAL  
One, Two and Three Year Averages - 1968, 1967, 1966

Hybrid	% Moisture in Ears			Tons Per Acre			% Ears in Dry Weight		
	2	3		2	3		2	3	
	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.
Trojan TX 68	42.3	-	17.1	-	5.6	-	53.8	-	-
Pioneer PXE 1	42.7	-	13.6	-	4.3 <sup>1</sup>	-	42.5	-	-
A.E.S. 202	47.0	48	46	28.2	19.5	14.9	8.2	6.1	4.9
Michigan 200	47.8	49	46	28.7	20.1	15.7	8.8	6.7	5.5
Northrup King PX417 (3X)							51.1	49	44
Seneca SR 155	50.9	52	-	26.0	18.2	-	7.4	5.5	-
Seneca XX 155	51.3	52	-	27.0	20.2	-	8.1	6.4	-
Weather Master EP10 (3X)							41.6	37	-
Michigan 270	53.0	54	50	28.7	21.9	16.2	8.0	6.3	5.1
Pride 137	56.1	57	-	32.0	22.2	-	8.7	6.5	-
Michigan 250	56.1	57	53	33.2	22.4	18.3	8.9	6.4	5.6
Michigan 280	56.2	56	-	35.8	24.9	-	9.1	7.0	-
DeKalb XT 138	56.8	55	51	31.5	20.5	16.3	8.1	5.8	4.9
Funk Bros. G 43	57.6	55	51	30.2	20.2	15.8	7.6	5.6	4.7
DeKalb XL 301 (3X) 57.5	-	-	-	28.4	-	-	7.2	-	-
Northrup King PX 446 (Sp)				35.4	23.7	-	9.3	6.7	-
Northrup King PX 442 (3X)				30.2	-	-	8.1	-	-
Pioneer 3956 (2X)	58.1	60	-	34.3	23.0	-	9.2	6.3	-
Pioneer 3959 (3X)	58.5	-	-	34.7	-	-	8.8	-	-
Funk Bros. G 10 A	62.4	62	57	33.3	23	2	18.7	7.9	6.0
Average	53.8	55	51	29.0	21.1	16.6	7.9	6.1	5.2
Range	42.3	48	46	13.6	16.8	14.9	4.3	4.8	4.7
Least significant difference	2.1	1.5	1	1.5	.9	.6	.5	.3	.2
	2.6	2	2	2.6	2	2	2	2	2

<sup>1</sup>Damaged by racoons.

	1968	1967	1966
Planted	May 21	May 17	May 11
Harvested	Sept. 18	Sept. 13	Sept. 21
Soil Type	Onaway loam	Onaway sandy loam	Onaway loam
Previous crop	Wheat		
Rows	28"	28"	38"
Population	21,100	17,200	14,000
Fertilizer	120-72-72	30-30-30	30-60-30
Farm Cooperators: (1968) William Bartow, Alpena; (1967 and 1966) A.H. Nickel, Alpena			
County Agricultural Agent: A.H. Nickel, Alpena			

Table 20 NORTHERN MICHIGAN Zone 4  
SILAGE - ALGER COUNTY TRIAL  
One, Two and Three Year Averages - 1968, 1967, 1966

Hybrid	% Moisture in Ears			Tons Per Acre			% Ears in Dry Weight		
	2	3		2	3		2	3	
	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.	1968 yrs.
Northrup King PX 417 (3X)				17.9	-	-	3.4	-	-
Funk Bros. G 2 A	77.5	-	-	16.4	-	-	3.6	-	-
Michigan 200	78.1	75	64	20.1	15.3	13.3	3.8	3.3	3.4
Midland Co-op M480	78.2	-	-	19.9	-	-	3.4	-	-
Northrup King PX 480 (Sp)				24.5	17.5	-	3.4	3.1	-
Midland Co-op M490	78.7	-	-	23.0	-	-	3.9	-	-
Michigan 280	78.8	81	69	25.3	18.4	16.4	3.6	3.2	3.9
Pioneer 3956 (2X)	78.8	80	-	23.3	16.8	-	3.3	3.0	-
Pioneer 3959 (3X)	78.8	-	-	20.8	-	-	3.2	-	-
Northrup King PX 442 (3X)				23.5	-	-	3.6	-	-
A.E.S. 202	79.1	78	66	20.6	15.3	13.7	3.5	3.7	4.0
Wisconsin 263	79.2	78	67	22.2	16.5	13.8	3.9	3.4	3.4
Teweles 201	79.2	-	-	22.2	-	-	3.8	-	-
Northrup King KC 3	79.5	77	70	19.1	15.0	13.3	3.5	3.3	3.5
Michigan 250	79.5	80	68	21.2	15.5	14.3	3.0	2.8	3.6
Michigan 270	79.6	80	68	19.4	15.1	13.8	2.7	2.7	3.4
Trojan TX 68	79.6	-	-	12.2	-	-	3.2	-	-
Wisconsin 273	79.8	78	66	21.0	16.0	14.1	3.3	3.0	3.4
Wisconsin 243	79.8	78	65	19.2	14.4	13.1	3.3	2.9	3.4
DeKalb 29	80.0	75	63	21.7	15.1	13.2	4.1	3.3	3.6
Northrup King PX 446 (Sp)				23.1	17.0	-	3.3	3.2	-
Pioneer PXE-1	80.3	68	-	14.9	11.7	-	4.0	3.5	-
Midland Co-op M 485	80.8	-	-	20.1	-	-	3.7	-	-
Average	79.1	78	67	21.1	15.7	13.9	3.5	3.2	3.6
Range	77.3	68	63	12.2	11.7	13.1	2.7	2.7	3.4
Least significant difference	3.8	2.5	2	1.6	0.9	0.6	4	0.3	0.2
	2.7	2	2	2.6	2	2	2	2	2

	1968	1967	1966
Planted	June 13	May 29	May 23
Harvested	Sept. 27	Sept. 21-22	Oct. 18
Soil type	Chatham stoney loam	Chatham stoney loam	Chatham stoney loam
Previous crop	Corn		
Population	16,900	16,200	15,900
Fertilizer	78-72-72	70-78-78	74-96-48

Cooperator: Dr. Don Reid, Michigan State University, Chatham

**Table 21. Index for 216 hybrids entered as 1,100 entries in the 1968 Michigan Corn Performance Trials. Numbers within parentheses refer to table numbers in which the hybrid appears; (2X) indicates a single-cross hybrid, (3X) indicates a three-way hybrid, (Sp) indicates a special-cross hybrid, and all others are double-cross hybrids.**

ACCO Seed, 515 River Avenue North, Belmond, Iowa	Funk Bros. G 4333 (2X) (1, 2, 3, 4, 12)	Midwest Research Associates, Box J. Dassel, Minnesota	Pfister Associated Growers, Inc., Box 470, Aurora, Illinois
Tomco 144 (16)	Funk Bros. G 4350 (2X) (1, 8, 9, 10, 11, 13, 14, 16)	Weather Master EP 10 (3X) (12, 18, 19)	P.A.G. SX 7 (2X) (3)
Tomco 160 (16)	Funk Bros. G 4384 (2X) (2, 3, 5, 6)	Weather Master EP 20 (3X) (11, 15)	P.A.G. SX 9 (2X) (1)
Tomco 180 (16)	Funk Bros. G 5207 (3, 4)	Weather Master EP 30 (3X) (7, 8, 9, 10, 11, 12, 13, 14, 15)	P.A.G. SX 36 (2X) (2, 3)
Tomco 208 (3)	Edward J. Funk & Sons, Kentland, Illinois	Weather Master EP 40 (3X) (4, 5, 6, 7, 12, 15)	P.A.G. SX 38 (13, 14, 16)
Haapala SX 205 (2X) (13, 14)	SuperCrost S19 (2X) (8, 9, 10, 12, 13, 14, 15)	Weather Master EPX 3 P (2X) (4, 7, 11, 12, 15)	P.A.G. 41 (11, 12, 13, 14)
Tomco 300A (3)	SuperCrost S27 (2X) (1, 8, 9, 10, 13, 14)	Weather Master EPX 4 P (2X) (1, 3, 7, 12)	P.A.G. 45 (3, 11, 13, 14)
Tomco 440 (3, 4)	SuperCrost S30A (2X) (1, 8, 9, 10)	Weather Master EPX 5 P (2X) (1, 2, 5, 6, 12)	P.A.G. SX 47 (2X) (13, 14, 16)
Tomco SX 626 (2X) (3)	SuperCrost 163 (3X) (15)	Weather Master EPX 6 (2X) (1, 3, 13, 14)	P.A.G. SX 48 (2X) (3, 5, 6, 8, 9, 10, 11, 13, 14, 16)
Tomco 2600-2X (2X) (16)	SuperCrost 201 (12)	Weather Master EPX 7 (2X) (1, 3, 13, 14)	P.A.G. SX 52 (2X) (4, 5, 6, 8, 9, 10)
Haapala SX 420 (2X) (19)	SuperCrost 224 (1, 8, 9, 10, 13, 14)	Weather Master EPX 8 (2X) (1, 3, 13, 14)	P.A.G. 70 (8, 9, 10)
Anderson Elevator Co., Maumee, Ohio	SuperCrost 233 (3X) (1)	Weather Master EPX 9 (2X) (1, 3, 13, 14)	P.A.G. 272 (3X) (1, 3, 8, 9, 10)
Anderson A95 (2)	SuperCrost 2610 (5, 6)	Weather Master EPX 10 (2X) (1, 3, 13, 14)	P.A.G. SX 310 (Sp) (1)
Anderson A100 (2)	Garno Seed Co., Deerfield, Michigan	Midwest Seed Growers Assn., Mitchell, Indiana	Pioneer Corn Co., Inc., Tipton, Indiana
Anderson 3-W-100 (2)	Garno S 90 (2X) (15)	Migro M-12 SX (2X) (2, 3, 4, 5, 6, 8, 9, 10)	Pioneer PXE 1 (18, 19, 20)
Asgrow Seed Co., Mechanicsburg, Pa.	Garno S 95 (2X) (1)	Migro M-22 SX (2X) (2, 3, 4, 5, 6)	Pioneer 354 A (1)
Asgrow ATC-45 (3X) (11)	Fred Gutwein & Sons, Francesville, Ind.	Migro M-42-3X (3X) (2, 3, 4, 5, 6, 8, 9, 10)	Pioneer 368 (2, 4, 11, 12, 15)
Bayless & Sons, Route 1, Bluffton, Ind.	Gutwein 10 (2X) (3, 4, 5, 6)	Migro M-110 A (5, 6, 8, 9, 10)	Pioneer 371 (1, 4, 7, 12)
Bayless SX 415 (2X) (1, 2, 3, 5, 6)	Gutwein 17 (3X) (3)	Migro M-140 (4, 5, 6)	Pioneer 385 (4, 16)
Bayless SX 433-8 (2X) (1)	Gutwein 20 (2X) (2, 3, 5, 6)	Migro M-540 (2, 3, 8, 9, 10)	Pioneer 388 (11, 13, 14, 15)
Bayless SX 434 (2X) (1)	Gutwein 120 (3X) (3, 5, 6)	Migro M-100 (5, 6, 8, 9, 10)	Pioneer 3414 (3)
Bayless 3X 485 (3X) (2, 3)	Gutwein 222 (3)	Migro M-3466 (3)	Pioneer 3466 (3)
Bayless SX 601 (2X) (3)	J. E. Hulting & Sons, Geneseo, Illinois	Migro M-540 (2, 3, 8, 9, 10)	Pioneer 3567 (4)
Bayless SX 615-5 (2X) (2, 3, 5, 6)	Hulting 218 (3)	Mitchell Farms, Windfall, Indiana	Pioneer 3570 (Sp) (1, 2, 3, 4, 5, 6)
Blaney Farms, Inc., Route 3, Madison, Wisconsin	Hulting X 345 (3)	Crib Filler 22 (2X) (2, 4, 8, 9, 10)	Pioneer 3579 (Sp) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
Blaney B401 (2X) (1, 5, 6, 8, 9, 10, 12, 15)	Hulting X 536 (3)	Crib Filler 40 (2X) (2)	Pioneer 3582 (Sp) (1, 2, 3, 4, 5, 6)
Blaney B500 (2X) (1, 5, 6, 8, 9, 10, 12, 15)	Hulting X 928 (3)	Crib Filler 3425 (3X) (8, 9, 10)	Pioneer 3658 (2)
Blaney B601 (2X) (1, 5, 6, 8, 9, 10)	Hulting X 2352 (3)	Moews Seed Company, Granville, Illinois	Pioneer 3675 (7, 12, 13, 14, 16)
Blaney 6606A (2X) (1, 5, 6, 8, 9, 10, 12, 15)	Jacques Seed Co., Prescott, Wisconsin	Moews M 84 (5, 6)	Pioneer 3715 (3X) (1, 3, 7, 8, 9, 10, 12)
Blaney 6616 (3X) (1, 5, 6, 8, 9, 10, 12, 15)	Jacques 900 J (11)	Moews SX 327 (2X) (5, 6)	Pioneer 3773 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Brodbeck Seed Farms, State Road 155, Route 1, Wabash, Indiana	Jacques 951 E (12, 13, 14, 15)	Northrup King & Co., 1500 Jackson N.E., Minneapolis, Minnesota	Pioneer 3775 (2X) (1, 2, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14)
Brodbeck SX 2 (2X) (3)	Jacques JX 952 (15)	Northrup King KC 3 (20)	Pioneer 3799 (3X) (7, 8, 9, 10, 12, 14, 15, 16)
Brodbeck 352 (3)	Jacques JX 122 (2X) (13, 14)	Northrup King X 19 (Sp) (1, 2, 3, 4, 5, 6, 15)	Pioneer 3854 (2X) (11, 12, 13, 14, 15, 16)
Cowbell Seeds, Inc., 156 W. Superior St., Wayland, Michigan	Jacques JX 202 (2X) (13, 14)	Northrup King PX 22 (2X) (7, 8, 9, 10, 11, 12, 13, 14, 15, 16)	Pioneer 3911 (2X) (5, 6, 8, 9, 10, 12, 13, 14, 15, 16)
Cowbell SX 24 (2X) (5, 6, 15)	Jacques JX 1052 (2X) (13, 14)	Northrup King PX 44 (2X) (7)	Pioneer 3956 (2X) (11, 12, 13, 14, 16, 17, 18, 19, 20)
Cowbell HK 58 (8, 9, 10)	Jacques JX 1063 (3X) (13, 14)	Northrup King PX 47 (2X) (1, 2, 3, 4, 5, 6)	Pioneer 3959 (3X) (17, 18, 19, 20)
Cowbell SX 95 (2X) (15)	Jacques 1051 E (13, 14)	Northrup King PX 50 (2X) (1, 2, 3, 4, 5, 6)	Pride Seed Inc., P.O. Box 45, Montrose, Michigan
Cowbell SX 102 (2X) (7, 16)	Lowe Seed Co., 217 South West Ave., P.O. Box 664, Kankakee, Illinois	Northrup King PX 52 (2X) (1, 2, 3, 4, 5, 6)	Pride R 118 (3X) (12, 13, 14, 16, 17)
Cowbell 107 SX (2X) (8, 9, 10)	Lowe GG 2 A (3)	Northrup King X 122 (2X) (13, 14)	Pride R 129 (3X) (11, 12, 13, 14)
Cowbell SX 112 (2X) (3, 4, 5, 6, 8, 9, 10)	Lowe GG 2 TP (3, 5, 6)	Northrup King PX 417 (3X) (11, 12, 13, 14, 16, 17, 18, 19, 20)	Pride R 137 (11, 18, 19)
Cowbell SX 206 (2X) (8, 9, 10)	Lowe TWX 2 (3)	Northrup King KE 435 (17)	Pride R 200 (2X) (12)
Crows Hybrid Corn Co., Milford, Illinois	Michigan Agricultural Experiment Station, East Lansing, Michigan	Northrup King PX 442 (3X) (11, 12, 13, 14, 16, 17, 18, 19, 20)	Pride R 232 (17)
Crows 420 (2X) (7)	Michigan 200 (17, 18, 19, 20)	Northrup King PX 446 (3X) (11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Pride R 407 (2X) (4, 7, 8, 9, 10, 12, 14, 15, 16)
Crows 428 (2X) (7)	A.E.S. 202 (17, 18, 19, 20)	Northrup King PX 480 (Sp) (7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20)	Pride R 450 (2X) (2, 3, 4, 7, 8, 9, 10)
DeKalb Agricultural Assoc., Inc., DeKalb, Illinois	Michigan 250 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 487 (3X) (11, 12, 13, 14, 15, 16)	Pride 724 (2, 5, 6)
DeKalb XL 15 (2X) (12, 13, 14, 16)	Michigan 270 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King KE 497 (3, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Robson Seed Co., Hall, New York
DeKalb EX 26 (2X) (3, 8, 9, 10)	Michigan 280 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 519 (Sp) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15)	Seneca SR 155 (17)
DeKalb EX 29 (2X) (3)	Michigan 300 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 525 (Sp) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 16)	Seneca XX 155 (17)
DeKalb 29 (20)	Michigan 400 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 527 (Sp) (2)	SS Hybrids, Inc., Camden, Indiana
DeKalb XL 45 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15)	Michigan 463-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 556 (3X) (1, 2, 3, 4, 5, 6)	Soy J 7 (7)
DeKalb 45 (17)	Michigan 500-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 560 (Sp) (7)	Soy 13 (2X) (7)
DeKalb XL 301 (3X) (18, 19)	Michigan 550 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King KM 567 (2, 7)	Soy J 31 (7)
DeKalb XL 304 (3X) (12, 15)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 580 (3X) (1, 2, 3, 4, 5, 6)	Teweles Seed Co., Milwaukee, Wisconsin
DeKalb XL 306 (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 16, 17, 18, 19, 20)	Michigan 463-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 610 (3X) (1, 2, 3, 4, 5, 6)	Teweles SXT 14 (2X) (15)
DeKalb XL 315 (3X) (4, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 19, 20)	Michigan 500-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 612 (2X) (1, 2, 3, 4, 5, 6)	Teweles SXT 24 (2X) (5, 6)
DeKalb XL 325 (3X) (1, 2, 4, 5, 6, 8, 9, 10, 12, 15, 16, 17, 18, 19, 20)	Michigan 550 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 614 (2X) (1, 2, 3, 4, 5, 6)	Teweles SXT 61 (3X) (15)
DeKalb XL 335 (3X) (5, 6)	Michigan 400-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 616 (2X) (1, 2, 3, 4, 5, 6)	Teweles SXT 75 (3X) (15)
DeKalb XL 346 (3X) (1)	Michigan 463-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 618 (2X) (1, 2, 3, 4, 5, 6)	Teweles 80 (3X) (8, 9, 10)
DeKalb XT 138 (18, 19)	Michigan 500-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 620 (2X) (1, 2, 3, 4, 5, 6)	Teweles 86 (3X) (8, 9, 10)
Art Frostic & Sons, Applegate, Michigan	Michigan 550 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 622 (2X) (1, 2, 3, 4, 5, 6)	Teweles 201 (20)
DeKalb XL 304 (3X) (11)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 624 (2X) (1, 2, 3, 4, 5, 6)	Teweles 232 (13, 14)
Funk Bros. Seed Co., Bloomington, Illinois	Michigan 500-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Northrup King PX 626 (2X) (1, 2, 3, 4, 5, 6)	Teweles 263 (16)
Funk Bros. G 2 A (20)	Michigan 550 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Occidental Chemical Co., Applegate, Mich.	Todd Hybrid Corn Co., Burlington, Indiana
Funk Bros. G 10 A (7, 8, 9, 10, 12, 13, 14, 16, 18, 19)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Green Belt 12 A (13, 14)	Todd M 40 A (2X) (2)
Funk Bros. G 17 A (7, 8, 9, 10, 11, 12, 13, 14, 15, 16)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Green Belt 16 (11, 12, 13, 14)	Todd M 55 (2X) (2, 5, 6)
Funk Bros. G 18 A (2, 4, 7, 12)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Green Belt 31 (11, 13, 14)	Todd M 60 (2X) (2)
Funk Bros. G 43 (13, 14, 16, 17, 18, 19)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Green Belt 41 (11, 13, 14)	Todd 228 (2)
Funk Bros. G 4110 (2X) (11)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Green Belt 316 (11, 13, 14)	Troyan Seed Co., Olivia, Minnesota
Funk Bros. G 4170 (3X) (11, 13, 14, 16, 17)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Green Belt 362 (2X) (11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Troyan TX 68 (18, 19, 20)
Funk Bros. G 4222 (2X) (8, 9, 10, 15)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	OYO Seed Associates, Inc., Marysville, Ohio	University of Wisconsin, Madison, Wisconsin
Funk Bros. G 4287 (3X) (7, 8, 9, 10, 11, 12, 13, 14, 15, 16)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	OYO 225 (2X) (1, 2)	Wisconsin 243 (20)
Funk Bros. G 4292 (3X) (7, 8, 9, 10, 12)	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	OYO 333 (2X) (1, 2)	Wisconsin 263 (20)
	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	OYO 360 (3X) (8, 9, 10)	Wisconsin 273 (20)
	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Ray Parker & Sons, Kimmel, Indiana	Wyckoff Hybrids, Inc., R.R. 3, Valparaiso, Indiana
	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Parker 250 (5, 6)	Wyckoff W 5 X (2, 3)
	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Parker 350 (5, 6)	Wyckoff W 9 X (2)
	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)	Parker 663 (5, 6)	Wyckoff W 10 A (2, 3)
	Michigan 568-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)		Wyckoff W 215 (2)