

# Michigan Corn Production

## HYBRIDS COMPARED 1972

COOPERATIVE EXTENSION  
MICHIGAN STATE UNIVERSITY

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

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

Highest yielding corn hybrids in the 1971 trials produced 30 bushels more per acre than the average of 245 hybrids tested and 64 bushels more than the lowest yielding hybrids tested (Table A, page 4). The respective yields were 145, 116 and 81 for the highest, average and lowest yielding hybrids at the 16 testing locations. The driest hybrids at harvest contained 5% less moisture than the average and 10% less moisture than the wettest hybrids tested. Stalk breakage averaged 11.6%, 3.4% and 0.3% for hybrids with highest, average and lowest amounts of stalk lodging.

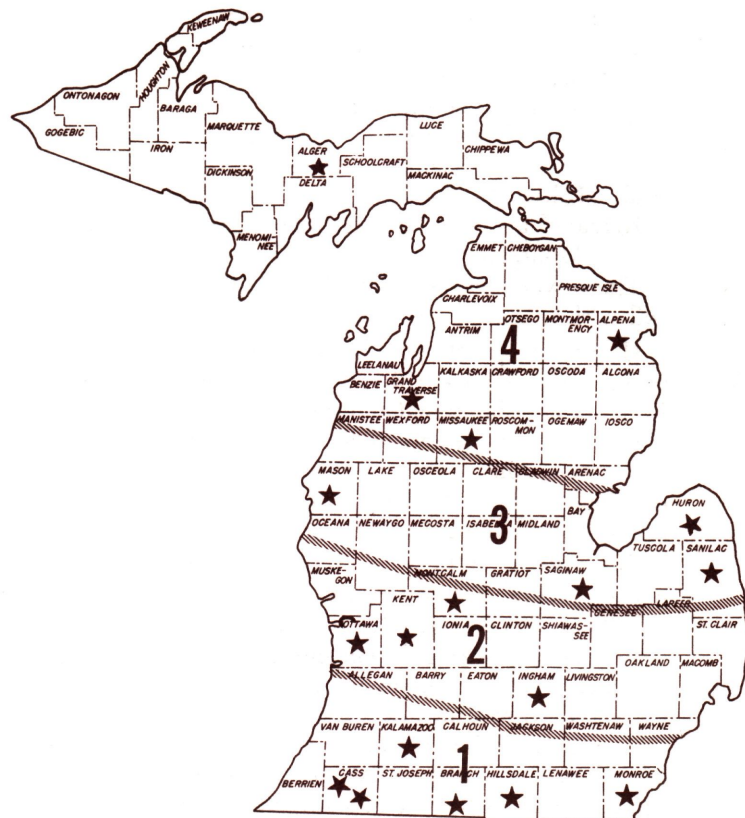
### ENTRIES

Two groups of entries are included in the trials:

- 1) **Voluntary entries** — all seed companies are invited each year to enter 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.



Corn Maturity Zones and Locations (★) of Trials



All hybrids were randomized and compared in the same field using the same procedures for all.

Table 22 presents an index of all hybrids entered in the 1971 trials. 245 hybrids were tested as 1,053 entries at 18 testing locations. Company names used in association with hybrid numbers refer to the *brand* and the number is the *hybrid designation*.

Single-cross hybrids are indicated with (2X), three-way hybrids with (3X), double-cross hybrids with (4X) and special cross hybrids with (Sp.) following the hybrid name and number in the tables.

Michigan experimental hybrids 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 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, Missaukee, Alpena and Alger county trials (Tables 10, 14, 18, 20).

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).

Hybrid x plant population trials conducted for seven years (1964-1970) at three locations (Monroe, Ingham, and Saginaw Counties) were omitted in 1971. Correlations of hybrid yields at different populations had been consistently highly significant indicating relatively little interaction of hybrids with population. High yielding hybrids at one population tended to be high yielding at another population.

Five adapted hybrids at four plant populations (15,000 to 28,000) were tested at most locations (Table B). Hybrid x population interactions were not significant; so only the average population yields are reported. Populations of 18-19,000 produced the highest yields at all locations averaging 15, 12, and 22 bushels more than populations of 15,100, 23,500, and 28,100 respectively. In general, moisture content av-

eraged 0.5-1.0% higher for the higher populations. There was slightly more stalk lodging at the higher populations but the differences were small at most locations in 1971.

Hybrid x row width (36-, 30-, and 18-inch row spacings) trials conducted for six years at Ingham County were also omitted in 1971. Correlations of hybrid yields at different row spacings had been consistently highly significant indicating that hybrids tended to respond relatively alike regardless of row spacing.

Planting of all trials was completed between April 30 and May 27.

Weather during May was favorable for early planting. The Michigan Crop Reporting Service estimated that 93% of the corn acreage was planted by May 29. Planting was more advanced than for any recent year. The growing season, June-September, was dryer and cooler than normal. Dry weather reduced yields at most of the testing locations. October was unusually favorable for harvest and rapid dry-down in the field. Killing frosts did not occur until November so that all hybrids matured before frost.

Blight did not develop until late in the season when most corn was mature and practically no damage resulted.

The Michigan Crop Reporting Service estimates the 1971 state average corn yield at 65 bushels per acre compared to the record average of 79 in 1970. 1,750,000 acres were harvested for grain, 21% more than 1970. The total crop in Michigan was about equal to that of 1970. In addition, about 450,000 acres of corn are harvested for silage.

## HOW TO USE THIS BULLETIN

One-, two- and three-year averages are presented for all hybrids tested during 1971, 1970 and 1969. 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% 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 content was 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,  $P_2O_5$  and  $K_2O$  applied during the season.

### HOW TO CHOOSE A 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** — High plant populations (20,000 or more per acre) 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 16,000 to 18,000 plants per acre. Lodging and harvest losses are often greater at higher populations.

**Maturity** — Hybrids are listed in the tables in order of maturity — early to late — based on moisture content of the grain at harvest. This is usually a reasonably accurate measure of relative maturity in most years in Michigan. Early maturing hybrids will be generally lower in moisture content than later maturing hybrids. Difference among hybrids in rate of drying in the field also affects moisture content at harvest but usually does not greatly disturb the relative maturity ratings as determined by moisture content.

Due to unusually rapid drying in the field in 1971, moisture contents do not appear to be as good a measure of relative maturity as usual. Early and medium-early hybrids appear to have dried down to a low moisture and remained there while later maturing hybrids dried down to moistures approaching those of the early hybrids. Thus, the spread in mois-

ture content between early and late maturing hybrids was less and there appears to be more-than-usual interactions with rate of drying.

One percent more moisture at harvest means a delay in maturity of about two days. Corn is mature when moisture is down to about 32% in the grain or 38% in the ear.

**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 reduce 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.



### "N", "T", AND "B" SEED FOR 1972

Most seed corn tags will be labelled either "N" (normal cytoplasm), "T" (sterile cytoplasm) or "B" (blend of normal and sterile cytoplasm).

80-90% of hybrid seed corn for 1972 planting will be "N" type of seed. It is generally resistant to the new "T" race of Southern Corn Leaf Blight (SCLB). "N" seed is produced by hand and machine detasseling of seed fields resulting in a slightly higher price for the seed.

"T" seed is usually susceptible to the "T" race of SCLB. It is produced in seed fields using male sterile seed parents that do not require detasseling.

"B" seed is a blend of both "N" and "T" types of seed. Fields planted with "B" seed will probably have 1/3-1/2 of the plants with some resistance to the "T" race and the other 2/3-1/2 of the plants will be more susceptible.

"N" seed is slightly more resistant to Yellow Leaf Blight (YLB) than "T" seed but the difference due to seed type is less clear cut than for the "T" race of SCLB. The visual symptoms of SCLB and YLB are very similar in the field.

There is usually no difference in resistance to Northern Corn Leaf Blight or Eyespot due to seed type.

No one is certain what the blight problems will be in 1972.

Disease development depends upon three factors:

1. presence of the disease pathogen,
2. favorable environment for the disease, and
3. susceptible crop varieties.

Planting "N" type seed in 1972 will reduce the possibilities of infection with "T" race of SCLB.

**Table A. Average, highest, and lowest moisture content, grain yield, and stalk lodging at 17 locations in 1971.**

Location	No. of hybrids	% Moisture			Bushels per acre			% Stalk Lodging		
		Avg.	Highest	Lowest	Avg.	Highest	Lowest	Avg.	Highest	Lowest
Monroe	70	20.7	24.4	16.5	117.4	140.1	98.1	0.9	7.1	0.0
Hillsdale	79	23.2	29.6	18.5	107.9	143.9	78.9	2.6	13.8	0.0
Branch	74	23.2	27.2	18.1	149.7	183.6	102.1	3.7	17.2	0.0
Kalamazoo	53	29.8	34.1	22.8	101.9	128.7	69.9	4.2	16.0	0.0
Cass — Upland Irrigated	52	23.6	28.5	19.5	140.0	171.2	116.9	4.1	11.1	0.0
Cass — Muck Soil	37	24.1	28.7	20.3	147.9	165.8	115.9	4.8	14.4	0.0
Ottawa	46	24.6	28.7	19.7	95.0	125.0	65.0	2.0	9.3	0.0
Kent	47	23.2	28.4	20.2	146.0	175.8	109.3	6.0	16.6	0.0
Ingham	85	27.1	32.6	22.0	105.2	133.4	72.2	0.3	3.0	0.0
Sanilac	48	31.0	36.5	24.2	98.1	126.8	64.6	0.3	2.9	0.0
Saginaw	78	24.1	29.5	19.1	91.4	122.1	55.1	0.5	4.0	0.0
Huron	52	26.7	32.0	21.3	133.1	170.0	91.7	0.3	4.3	0.0
Montcalm — Irrigated	48	26.0	29.9	21.4	161.1	208.6	91.0	7.5	23.4	1.6
Montcalm — Not Irrigated	48	—	—	—	27.9	41.9	10.6	0.9	3.1	0.0
Mason	29	23.9	28.0	19.5	109.6	127.1	89.1	0.9	3.5	0.0
Grand Traverse	21	28.2	33.1	22.6	91.2	108.5	73.9	0.6	2.5	0.0
Alpena	28	29.6	36.0	22.0	146.2	197.2	77.5	18.1	45.3	3.6
Average	—	25.6	30.4	20.5	115.9	145.3	81.3	3.4	11.6	0.3

**Table B. Average yield, % moisture, and % stalk lodging at four plant populations for 16 locations in 1971.**

Location	Bushels per acre				% Moisture				% Stalk Lodging			
	15,100	18,900	23,500	28,100	15,100	18,900	23,500	28,100	15,100	18,900	23,500	28,100
Monroe	115.6	126.5	106.1	102.0	21.4	22.2	22.1	21.9	0.8	0.0	0.2	1.7
Hillsdale	116.5	121.5	114.6	106.7	24.4	24.0	25.7	25.7	0.4	0.6	1.7	0.7
Branch	163.1	189.9	162.8	155.1	21.6	22.5	22.3	22.3	1.1	1.4	3.1	5.1
Kalamazoo	103.7	117.4	102.3	95.6	32.6	33.1	34.1	34.0	1.7	1.3	2.6	2.7
Cass — Irrigated	136.4	151.1	147.6	140.6	23.3	23.8	23.9	24.2	3.9	3.5	4.3	5.8
Cass — Muck	146.7	162.7	161.6	149.6	24.3	24.6	24.3	25.5	1.2	2.5	2.3	7.3
Kent	140.4	168.3	150.7	145.3	23.4	23.5	24.3	24.5	1.4	1.5	2.9	5.3
Ottawa	109.2	126.7	111.9	94.6	25.4	25.5	25.2	25.8	2.0	3.0	2.0	4.0
Ingham	126.2	140.3	136.7	124.6	28.8	29.4	29.9	30.3	0.5	0.6	1.2	1.0
Sanilac	100.2	115.3	91.7	80.2	31.0	30.8	31.0	32.2	1.5	3.2	4.1	9.2
Saginaw	95.2	105.8	94.1	83.2	24.7	24.3	26.2	26.1	1.4	2.2	3.0	3.7
Huron	139.9	169.6	166.5	143.3	25.1	25.9	26.8	26.6	1.9	1.7	3.3	6.0
Montcalm — Irrigated	172.9	189.1	190.9	180.6	24.3	24.1	24.6	24.3	6.4	7.8	10.7	10.1
Montcalm — Not Irrigated	36.6	35.3	20.2	10.5	27.6	28.8	28.7	28.3	1.0	0.6	0.9	1.5
Mason	109.5	118.7	98.7	89.5	24.7	24.9	24.9	25.9	1.6	2.3	3.5	5.5
Grand Traverse	92.2	100.4	90.1	82.5	27.9	29.4	29.4	29.6	0.9	2.4	3.3	3.3
Average	119.0	133.7	121.7	111.5	25.7	26.1	26.5	26.7	1.7	2.2	3.1	4.6



Table 1. SOUTHERN MICHIGAN (Zone 1) MONROE COUNTY TRIAL

One, Two, Three Year Averages — 1971, 1970, 1969

Hybrid	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging		
	1971	2	3	1971	2	3	1971	2	3	1971	2	3
		Yrs.	Yrs.		Yrs.	Yrs.		Yrs.	Yrs.		Yrs.	Yrs.
Michigan 275-2X (2X)	16.5	17	18	103.7	110	109	0.5	7	7	3.7		
Michigan 280 (4X)	17.0	18	18	99.7	113	108	3.7	5	11	5.2		
Gutwein 10A (2X)	18.1	—	—	116.6	—	—	0.5	—	—	4.7		
Michigan 396-3X (3X)	18.1	18	—	109.6	135	—	1.6	3	—	16.9		
Renk RK44 (2X)	18.1	19	—	112.7	131	—	0.5	2	—	1.5		
Blaney BX-AA (2X)	18.2	—	—	114.4	—	—	0.0	—	—	8.7		
Michigan 400 (4X)	18.2	18	20	102.4	115	116	0.5	8	7	5.4		
Super Crost S19 (2X)	18.6	—	—	112.5	—	—	0.5	—	—	10.6		
Pioneer 3784 (2X)	18.7	—	—	124.6	—	—	0.5	—	—	2.1		
Michigan 402-2X (2X)	18.8	19	20	110.7	121	121	7.1	12	13	9.9		
Blaney B-55A (3X)	18.8	—	—	105.7	—	—	1.1	—	—	3.7		
Mich. Exp. 67-2023 (2X)	18.8	—	—	122.7	—	—	0.0	—	—	6.7		
Gutwein 40 (2X)	19.0	—	—	113.5	—	—	2.1	—	—	8.0		
Super Crost 2552 (2X)	19.2	19	—	98.3	122	—	0.5	3	—	5.2		
Michigan 572-3X (3X)	19.4	20	21	116.9	143	143	0.5	1	5	12.9		
Super Crost S25 (2X)	19.5	—	—	114.3	—	—	1.6	—	—	5.8		
Bayless SX4395 (2X)	19.5	—	—	104.1	—	—	0.0	—	—	1.6		
Warwick TX60 (3X)	19.5	—	—	102.9	—	—	1.7	—	—	12.7		
Taylor-Evans Hastymaker (4X)	19.5	—	—	98.1	—	—	2.2	—	—	6.1		
Pioneer 3773 (2X)	19.5	19	21	108.6	129	127	0.5	5	5	2.6		
Trojan TXS105 (2X)	19.5	19	—	115.5	136	—	0.0	3	—	1.1		
Wolverine W176 (2X)	19.5	20	—	117.2	131	—	1.1	9	—	8.2		
Wolverine W170 (2X)	19.6	19	—	103.1	117	—	0.0	5	—	8.0		
Gutwein EX25 (2X)	19.7	—	—	117.6	—	—	1.0	—	—	20.3		
Acco DC393 (4X)	19.7	—	—	116.7	—	—	3.7	—	—	14.9		
Garno S92 (2X)	19.9	19	21	114.3	125	122	0.5	3	5	8.2		
Garno S96 (2X)	20.0	19	—	114.6	129	—	0.0	8	—	2.1		
Michigan 568-3X (3X)	20.2	20	22	116.9	133	130	0.5	4	4	7.6		
*Acco UC3300 (2X)	20.2	20	—	135.5	145	—	0.5	6	—	14.2		
Taylor-Evans Marketmaker (2X)	20.3	—	—	121.4	—	—	0.0	—	—	1.6		
Warwick TX71 (3X)	20.3	—	—	106.7	—	—	0.5	—	—	19.8		
Trojan TXS107 (2X)	20.3	20	—	128.4	129	—	0.0	3	—	8.9		
*Michigan 555-3X (3X)	20.3	20	21	139.4	145	142	3.2	9	10	8.9		
Super Crost S28 (2X)	20.4	—	—	110.8	—	—	1.1	—	—	14.4		
Super Crost 2772 (2X)	20.4	—	—	118.4	—	—	0.0	—	—	1.6		
Trojan TXS102 (2X)	20.4	20	—	123.9	143	—	0.0	4	—	12.9		
Cowbell SX205 (2X)	20.5	—	—	125.3	—	—	2.1	—	—	18.8		
Wolverine W176A (2X)	20.5	—	—	101.5	—	—	0.6	—	—	6.7		
Funk Bros. G5207 (4X)	20.7	20	22	102.2	111	106	0.5	7	11	9.7		
*Michigan 500-2X (2X)	20.9	20	21	136.5	140	135	0.0	6	6	3.0		
Migro M-1010SX (2X)	21.0	20	22	126.8	139	131	2.6	4	5	11.6		
Blaney B-AA (2X)	21.0	20	—	124.5	135	—	0.5	6	—	17.8		
Taylor-Evans Timemaker (4X)	21.2	—	—	107.4	—	—	1.1	—	—	5.6		
Mich. Exp. 67-3124A (2X)	21.2	—	—	127.9	—	—	0.0	—	—	10.9		
Super Crost S27 (2X)	21.2	20	21	123.1	134	136	0.0	8	12	16.0		
Super Crost S41 (2X)	21.3	—	—	120.6	—	—	1.1	—	—	7.1		
Super Crost S63 (2X)	21.4	—	—	114.2	—	—	0.5	—	—	10.4		
Michigan 511-3X (3X)	21.4	21	22	124.3	139	141	0.5	5	4	6.9		

Hybrid	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging		
	1971	2	3	1971	2	3	1971	2	3	1971	2	3
		Yrs.	Yrs.		Yrs.	Yrs.		Yrs.	Yrs.		Yrs.	Yrs.
Bayless 3X485 (3X)	21.5	20	—	110.8	134	—	2.2	12	—	9.8		
Wolverine W175 (2X)	21.6	21	—	121.2	118	—	0.6	7	—	2.2		
Acco UC3301 (2X)	21.6	—	—	126.7	—	—	0.0	—	—	2.6		
Funk Bros. G4444 (2X)	21.7	21	22	123.2	140	139	0.0	3	7	18.6		
Acco UC4400 (2X)	21.9	21	13	124.4	126	120	2.1	6	10	5.3		
*Pioneer 3518 (Sp.)	22.2	—	—	140.1	—	—	0.0	—	—	5.8		
*DeKalb XL45A (2X)	22.4	—	—	131.3	—	—	0.0	—	—	7.0		
*DeKalb XL44 (2X)	22.4	—	—	139.0	—	—	0.5	—	—	7.9		
*Pride R450 (2X)	22.4	21	22	133.9	145	138	0.0	4	5	3.2		
Funk Bros. G4384 (2X)	22.6	22	23	121.5	143	140	2.2	5	9	18.1		
Gutwein 70A (2X)	22.7	—	—	105.3	—	—	0.0	—	—	11.2		
Pioneer 3571 (Sp.)	22.7	22	—	126.9	142	—	0.0	2	—	11.2		
Bayless SX4795 (2X)	22.9	—	—	115.3	—	—	0.0	—	—	16.2		
Super Crost 4242 (2X)	23.0	—	—	129.4	—	—	0.5	—	—	11.8		
Super Crost S65 (2X)	23.1	—	—	109.4	—	—	1.1	—	—	15.1		
Trojan TXS112 (2X)	23.3	—	—	111.2	—	—	0.0	—	—	16.5		
Acco UC3600 (2X)	23.4	22	24	110.7	129	126	1.1	3	3	7.2		
Gutwein 69A (2X)	23.8	—	—	119.5	—	—	0.0	—	—	8.5		
Pioneer 3516 (2X)	24.0	—	—	114.9	—	—	0.0	—	—	17.1		
Migro M-0501 (2X)	24.1	—	—	120.6	—	—	0.5	—	—	19.6		
*DeKalb XL347 (3X)	24.4	—	—	134.3	—	—	1.0	—	—	3.6		
Trojan TXS113 (2X)	24.4	—	—	128.6	—	—	0.0	—	—	15.5		
Average	20.7	20	21	117.4	131	128	0.9	5	8	9.3		
Range	16.5	17	18	98.1	110	106	0.0	1	3	1.1		
	24.4	22	24	140.1	145	143	7.1	12	13	22.9		
Least significant difference	0.9	0.7	0.6	12.8	6	5						

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	May 10	May 7	May 26
Harvested	Oct. 26	Nov. 4	Nov. 4
Soil type	Brookston loam	Brookston clay loam	Brookston loam
Previous crop	Corn	Tomatoes	Corn
Population	19,900	19,800	19,500
Rows	38"	30"	30"
Fertilizer	126-144-144	123-132-132	193-102-156
Soil test: pH	7.2	6.8	6.9
P	57 (high)	33 (medium)	39 (high)
K	198 (high)	165 (medium)	274 (high)

Farm Cooperator: 1971 and 1970 — Harley Lievens, Riga;  
1969 — Earl Creech, Dundee

County Extension Director: Paul Nevel, Monroe



Table 2. SOUTHERN MICHIGAN (Zone 1) HILLSDALE COUNTY TRIAL

One, Two, Three Year Averages — 1971, 1970, 1969

Hybrid	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging
	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971
Michigan 275 (2X)	18.5	19	19	92.6	100	107	13.8	11	11	12.6
Michigan 280 (4X)	19.0	19	20	85.8	101	108	6.7	6	7	26.4
Warwick 292 (4X)	19.6	—	—	86.8	—	—	12.4	—	—	25.4
Pioneer 3784 (2X)	19.6	—	—	91.7	—	—	1.8	—	—	4.7
*Mich. Exp. 67-2023 (2X)	19.7	—	—	122.9	—	—	2.4	—	—	13.4
Trojan TXS94 (2X)	20.1	—	—	94.7	—	—	1.2	—	—	6.5
Michigan 400 (4X)	20.1	20	21	92.5	108	118	0.0	2	1	34.1
Bayless SX434 (2X)	20.1	21	24	113.0	122	132	0.6	2	2	19.9
Michigan 396-3X (3X)	20.2	20	—	114.6	123	—	0.0	1	—	18.0
Acco UC2301 (2X)	20.3	—	—	101.9	—	—	1.7	—	—	11.6
Warwick TX60 (3X)	20.5	—	—	93.2	—	—	1.2	—	—	27.7
Michigan 402-2X (2X)	20.5	21	22	91.5	103	115	12.9	10	8	18.4
Super Crost S25 (2X)	21.1	—	—	94.9	—	—	7.1	—	—	11.2
Wolverine W176A (2X)	21.5	—	—	85.3	—	—	3.0	—	—	11.2
Funk Bros. G4444 (2X)	21.6	—	—	114.1	—	—	0.0	—	—	17.5
*Super Crost S27 (2X)	22.0	22	—	123.6	124	—	0.0	1	—	28.7
Super Crost S29 (2X)	22.0	—	—	79.7	—	—	1.8	—	—	12.9
Bayless SX4395 (2X)	22.0	—	—	107.2	—	—	3.0	—	—	5.4
*Asgrow RX58 (2X)	22.3	—	—	122.0	—	—	1.7	—	—	26.0
Renk RK44 (2X)	22.4	—	—	105.2	—	—	2.3	—	—	8.6
Mich. Exp. 67-3124A (2X)	22.4	—	—	118.1	—	—	3.0	—	—	18.5
Todd M55 (2X)	22.4	23	24	98.8	99	117	1.7	1	2	6.4
DeKalb XL22 (2X)	22.4	—	—	117.3	—	—	4.0	—	—	22.5
Blaney B601 (Sp.)	22.4	22	24	113.3	117	129	3.4	2	2	13.2
Trojan TXS107 (2X)	22.4	—	—	112.1	—	—	1.2	—	—	19.8
Wolverine W175 (2X)	22.4	23	—	94.0	97	—	9.4	5	—	21.8
Blaney B616 (Sp.)	22.5	22	—	89.8	110	—	5.8	3	—	10.4
Todd M30 (2X)	22.5	22	24	121.4	116	125	1.8	2	2	23.1
Super Crost S19 (2X)	22.5	—	—	103.8	—	—	0.6	—	—	20.1
Super Crost S2772 (2X)	22.6	—	—	117.5	—	—	0.0	—	—	25.3
Bayless 3X485 (3X)	22.6	23	25	120.8	130	136	4.7	3	3	21.5
Michigan 572-3X (3X)	22.6	—	—	114.7	—	—	0.0	—	—	24.9
Hulting X537 (2X)	22.7	23	—	97.8	106	—	1.1	1	—	16.0
Funk Bros. G4384 (2X)	22.7	23	25	93.2	117	132	7.5	5	4	34.7
Michigan 568-3X (3X)	22.7	23	24	96.8	114	128	1.2	2	3	7.6
Warwick SL510 (Sp.)	22.8	—	—	96.7	—	—	4.0	—	—	26.4
Warwick SL416 (2X)	22.8	—	—	81.4	—	—	0.0	—	—	17.5
Asgrow RX60 (2X)	22.8	—	—	83.7	—	—	0.6	—	—	18.2
Pride R450 (2X)	22.9	23	24	113.4	124	135	0.6	2	3	20.5
Michigan 555-3X (3X)	22.9	22	24	109.2	118	133	8.0	7	6	15.4
Warwick 405 (4X)	22.9	—	—	83.5	—	—	5.9	—	—	25.4
*Migro M-1010SX (2X)	22.9	23	24	126.3	118	132	0.0	1	2	23.7
Low XR202 (2X)	22.9	—	—	78.9	—	—	4.7	—	—	8.8
Northrup King PX50A (2X)	23.0	—	—	116.3	—	—	1.7	—	—	13.9
Wolverine W170 (2X)	23.0	—	—	85.1	—	—	3.1	—	—	21.0
Cowbell SX205 (2X)	23.0	—	—	109.4	—	—	5.3	—	—	22.5
Trojan TXS102 (2X)	23.1	23	—	107.7	115	—	0.0	1	—	26.6
*Michigan 511-3X (3X)	23.1	23	24	143.7	140	148	2.4	2	2	12.7
Asgrow RX53 (2X)	23.1	—	—	120.4	—	—	0.6	—	—	10.3
Pioneer 3773 (2X)	23.2	23	24	118.5	123	132	2.3	1	2	17.9

Hybrid	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging
	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971
*Blaney B-AA (2X)	23.3	23	24	126.8	115	127	1.7	1	2	24.4
*Michigan 500-2X (2X)	23.3	23	24	134.7	130	140	0.0	0	1	20.8
Super Crost S41 (2X)	23.9	—	—	82.1	—	—	1.1	—	—	6.9
Cowbell SX112 (2X)	24.2	23	—	105.9	112	—	4.1	2	—	11.6
Warwick TX71 (3X)	24.3	—	—	83.3	—	—	0.6	—	—	19.8
Low SX2TP (2X)	24.4	24	25	106.6	113	129	1.2	3	2	41.5
Low XM333 (2X)	24.4	—	—	106.5	—	—	0.6	—	—	10.2
Super Crost S28 (2X)	24.5	—	—	91.9	—	—	1.2	—	—	27.2
*Funk Bros. G4445 (2X)	24.6	—	—	143.9	—	—	0.6	—	—	26.0
*Super Crost S63 (2X)	24.6	—	—	132.8	—	—	0.0	—	—	38.8
Trojan TXS104 (2X)	24.6	24	—	113.9	119	—	4.1	3	—	17.5
Acco U369 (3X)	24.8	—	—	106.5	—	—	0.6	—	—	27.5
Migro M-0501 (2X)	25.1	—	—	118.8	—	—	0.6	—	—	32.0
*Pioneer 3518 (Sp.)	25.4	—	—	125.6	—	—	1.2	—	—	6.9
Northrup King PX610 (3X)	25.6	24	26	107.0	119	132	1.2	1	1	10.7
Super Crost S65 (2X)	25.6	—	—	120.3	—	—	0.6	—	—	24.9
DeKalb XL45A (2X)	25.8	—	—	114.3	—	—	1.2	—	—	25.1
*Trojan TXS113 (2X)	25.9	—	—	121.8	—	—	0.6	—	—	15.7
*Acco UC3301 (2X)	26.2	—	—	134.1	—	—	6.8	—	—	15.3
Trojan TXS112 (2X)	26.3	—	—	120.4	—	—	0.0	—	—	37.0
Migro M-5040 (4X)	26.3	—	—	116.8	—	—	1.2	—	—	10.5
Super Crost 4242 (2X)	26.4	—	—	118.4	—	—	1.8	—	—	21.6
Hulting X770 (2X)	26.5	24	—	119.2	127	—	3.5	3	—	34.9
DeKalb XL44 (2X)	26.6	—	—	113.1	—	—	1.7	—	—	15.6
*Pioneer 3516 (2X)	27.0	—	—	123.0	—	—	0.6	—	—	20.2
Pioneer 3571 (Sp.)	27.2	25	—	114.9	121	—	0.0	1	—	30.0
Acco U378 (3X)	27.5	—	—	114.4	—	—	1.2	—	—	15.6
Hulting X9761 (3X)	28.0	—	—	107.8	—	—	1.7	—	—	10.2
Hulting X9770 (3X)	29.6	—	—	104.7	—	—	0.6	—	—	13.0
Average	23.2	22	24	107.9	116	127	2.6	3	3	19.2
Range	18.5	19	19	78.9	97	107	0.0	0	1	3.4
	to	to	to	to	to	to	to	to	to	to
	29.6	24	26	143.9	140	148	13.8	11	11	41.5
Least significant Difference	0.8	.6	.5	13.6	6	4				

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	May 5	May 12	May 6
Harvested	Oct. 29	Oct. 30	Oct. 16
Soil type	Griffin sandy loam	Griffin sandy loam	Griffin sandy loam
Previous crop	Corn	Corn	Corn
Population	19,700	19,500	19,100
Rows	30"	30"	30"
Fertilizer	180-80-140	189-84-156	185-84-141
Soil test: pH	5.8	5.9	6.6
P	96 (very high)	70 (high)	26 (medium)
K	235 (high)	139 (medium)	94 (medium)

Farm Cooperator: Dean Shamplo, Pittsford

County Extension Agent: E. A. Netherton, Hillsdale



Table 3. SOUTHERN MICHIGAN (Zone 1) BRANCH COUNTY TRIAL

One, Two, Three Year Averages — 1971, 1970, 1969

Hybrid	% Moisture		Bushels per acre			% Stalk lodging			% Root lodging		
	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	
Michigan 280 (4X)	18.1	18 20	122.0	108 107	2.4	3 4	10.1				
Michigan 275-2X (2X)	18.3	18 20	117.5	102 104	5.8	13 11	0.6				
Michigan 396-3X (3X)	18.7	19 —	146.9	142 —	3.5	2 —	1.2				
Mich. Exp. 67-2023 (2X)	19.2	— —	155.4	— —	4.8	— —	5.4				
Bayless SX434 (2X)	20.4	20 24	155.2	143 146	4.0	6 4	1.2				
Moews SM220 (2X)	20.5	— —	110.1	— —	3.0	— —	1.8				
Acco UC1900 (2X)	20.5	19 23	114.5	105 110	5.1	4 3	6.3				
Michigan 400 (4X)	20.5	19 22	134.4	116 114	6.2	7 5	8.1				
Michigan 402-2X (2X)	20.5	20 22	128.2	110 113	10.4	15 12	2.0				
Gutwein 40 (2X)	21.0	— —	161.3	— —	2.9	— —	0.0				
*Super Crost S25 (2X)	21.1	— —	166.9	— —	1.7	— —	2.8				
Cowbell 3X300 (3X)	21.1	20 24	125.2	112 112	0.6	1 1	0.6				
P.A.G. SX48 (2X)	21.1	19 22	128.0	112 109	4.6	12 9	1.7				
DeKalb XL306 (3X)	21.2	20 24	104.1	90 101	4.1	13 10	5.9				
Acco UC1901 (2X)	21.2	— —	120.3	— —	17.2	— —	7.9				
Taylor-Evans											
Hastymaker (4X)	21.3	— —	102.1	— —	10.7	— —	1.2				
P.A.G. SX67 (2X) N	21.4	— —	150.8	— —	1.7	— —	2.3				
Pride R501 (3X)	21.5	— —	141.2	— —	1.8	— —	0.0				
Pioneer 3784 (2X)	21.5	— —	121.9	— —	4.2	— —	0.6				
Northrup King KE497 (4X)	21.5	21 24	120.3	98 100	7.1	7 6	3.0				
Acco UC2301 (2X)	21.6	— —	138.0	— —	5.7	— —	7.5				
Renk RK44 (2X)	21.7	21 —	152.1	141 —	5.7	4 —	2.3				
Cowbell SX209 (2X)	22.1	— —	148.4	— —	6.3	— —	1.7				
Lowe TWX2 (3X)	22.3	22 25	139.3	121 124	3.7	3 3	0.0				
*Michigan 572-3X (3X)	22.4	22 —	169.5	155 —	4.6	3 —	1.1				
Acco UC3300 (2X)	22.5	22 25	155.1	132 141	5.1	5 4	5.1				
*Funk Bros. G4444 (2X)	22.6	22 25	176.9	155 148	4.7	3 2	5.8				
Bayless 3X485 (3X)	22.7	22 25	157.2	146 143	3.6	6 6	0.0				
*Michigan 555-3X (3X)	22.7	22 25	175.0	142 145	6.4	8 7	2.9				
Lowe XR203 (2X)	22.9	— —	101.9	— —	7.2	— —	4.7				
*Migro M-1010SX (2X)	22.9	22 25	165.2	146 150	1.7	3 3	0.6				
Michigan 568-3X (3X)	22.9	22 25	157.5	143 145	1.7	3 4	0.6				
Acco DC393 (4X)	23.1	— —	120.2	— —	5.8	— —	5.3				
P.A.G. 216 (3X)	23.1	— —	153.2	— —	2.4	— —	0.6				
Michigan 500-2X (2X)	23.1	22 25	163.7	143 146	2.5	4 4	6.2				
Hulting X2772 (3X)	23.4	— —	127.8	— —	3.0	— —	3.6				
*Bayless SX1795 (2X)	23.6	— —	182.9	— —	4.1	— —	5.8				
Hulting X537 (2X)	23.6	22 —	144.8	124 —	1.2	1 —	0.6				
*Mich. Exp. 67-3124A (2X)	23.6	— —	179.6	— —	1.2	— —	0.6				
*Super Crost S28 (2X)	23.8	— —	181.8	— —	2.9	— —	3.5				
*Michigan 511-3X (3X)	23.8	22 —	170.6	150 —	3.0	5 —	4.2				
Parker 360 (2X)	23.8	— —	152.5	— —	3.0	— —	3.0				
Taylor-Evans											
Timemaker (4X)	23.9	— —	129.7	— —	2.3	— —	0.6				
DeKalb XL45A (2X)	23.9	— —	161.4	— —	1.8	— —	4.3				
Lowe SX2TP (2X)	23.9	22 25	145.1	130 135	4.8	5 4	1.8				
Pride R407 (2X)	24.0	22 25	163.8	141 146	0.6	3 2	4.7				
Moews SM229 (2X)	24.0	— —	149.6	— —	0.6	— —	3.7				
Taylor-Evans											
Marketmaker (2X)	24.1	— —	138.7	— —	3.0	— —	7.7				

Hybrid	% Moisture		Bushels per acre			% Stalk lodging			% Root lodging		
	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	
Funk Bros. G5207 (4X)	24.1	22 24	115.4	107 111	11.7	9 7	16.5				
*Hulting X770 (2X)	24.2	22 —	168.4	148 —	2.4	4 —	1.8				
*P.A.G. SX7 (2X)	24.3	22 28	176.1	144 147	2.3	2 2	0.6				
Bayless SX415 (2X)	24.3	22 26	154.4	142 138	11.8	10 7	3.5				
*Trojan TXS102 (2X)	24.3	— —	165.4	— —	2.4	— —	4.9				
*Gutwein 69A (2X)	24.5	— —	174.8	— —	0.6	— —	1.8				
Funk Bros. G4384 (2X)	24.5	23 26	156.8	146 144	2.4	2 3	0.6				
Pride R450 (2X)	24.6	23 27	156.7	133 139	4.8	2 2	1.2				
Acco UC3600 (2X)	24.6	23 —	148.1	135 —	1.2	3 —	4.1				
Wolverine W175 (2X)	24.6	— —	139.5	— —	4.8	— —	4.2				
*Super Crost S63 (2X)	24.7	— —	174.2	— —	3.6	— —	6.6				
Bayless 3X415 (3X)	24.7	— —	121.2	— —	1.3	— —	3.1				
Acco UC3301 (2X)	25.0	— —	151.6	— —	3.5	— —	2.9				
Hulting X539 (2X)	25.1	— —	163.0	— —	4.2	— —	7.1				
*Gutwein 10A (2X)	25.2	— —	172.9	— —	1.8	— —	7.8				
Acco U369 (3X)	25.4	— —	163.6	— —	0.0	— —	1.8				
*Trojan TXS107 (2X)	25.4	— —	178.3	— —	1.1	— —	0.0				
*Migro M-0501 (2X)	26.0	— —	178.4	— —	0.0	— —	0.0				
*Hulting 70A (2X)	26.1	— —	165.4	— —	0.0	— —	1.8				
*Pioneer 3518 (Sp.)	26.2	— —	168.7	— —	0.6	— —	4.6				
Bayless 3X6495 (3X)	26.2	— —	147.4	— —	2.3	— —	4.1				
*Super Crost S65 (2X)	26.3	— —	168.5	— —	1.2	— —	7.1				
Bayless SX615-5 (2X)	26.9	— —	150.6	— —	2.4	— —	8.9				
*Hulting X9770 (3X)	27.0	24 —	169.8	154 —	1.8	2 —	2.4				
*Acco U378 (3X)	27.1	— —	170.7	— —	1.8	— —	15.5				
*Hulting X9761 (3X)	27.2	25 —	183.6	155 —	1.2	3 —	1.2				
Average	23.2	21 24	149.7	131 129	3.7	5 5	3.6				
Range	18.1	18 20	102.1	90 100	0.0	1 1	0.0				
		to to to	to to to	to to to	to to to	to to to	to to to				
		27.2 25 28	183.6 159 150	17.2 15 12	16.5						
Least significant difference	0.7	0.5 0.5	14.7	7	4						

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	April 30	May 11	May 28
Harvested	Oct. 14	Oct. 28	Oct. 20
Soil type	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
Previous crop	Corn	Corn	Corn
Population	19,800	19,300	19,100
Rows	30"	30"	30"
Fertilizer	170-101-60	137-46-60	152-92-72
Soil test: pH	6.7	6.5	6.6
P	154 (very high)	100 (very high)	106 (very high)
K	342 (very high)	344 (very high)	251 (high)

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



**Table 4. SOUTHERN MICHIGAN (Zone 1)  
KALAMAZOO COUNTY TRIAL**

One, Two, and Three Year Averages —  
1971, 1970, 1969

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.
Michigan 280 (4X)	22.8	21	22	77.6	87	92	8.1	7	5
Asgrow ATC35A (3X)	23.4	—	—	69.9	—	—	14.8	—	—
Michigan 275-2X (2X)	23.5	21	22	88.7	94	98	6.2	9	7
Funk Bros. G4252 (3X)	24.8	23	25	105.4	103	107	10.9	6	5
Cowbell SX102 (2X)	24.9	—	—	88.9	—	—	7.9	—	—
Michigan 400 (4X)	25.0	23	24	101.7	107	112	0.6	3	2
Michigan 396-3X (3X)	25.2	23	—	112.4	121	—	5.3	4	—
Cowbell SX002 (2X)	26.1	—	—	102.0	—	—	1.2	—	—
Cowbell 3X300 (2X)	26.2	24	26	82.3	96	95	4.2	3	2
*Asgrow RX53 (2X)	26.3	—	—	121.7	—	—	0.0	—	—
Pioneer 3784 (2X)	26.7	—	—	91.1	—	—	4.7	—	—
*Mich. Exp. 67-2023 (2X)	26.8	—	—	120.3	—	—	1.2	—	—
DeKalb XL24 (2X)	27.1	—	—	85.3	—	—	13.9	—	—
Michigan 402-2X (2X)	27.4	25	26	101.7	102	111	9.7	13	10
Acco UC2301 (2X)	28.0	—	—	112.5	—	—	0.6	—	—
Bayless SX434 (2X)	28.5	26	—	82.4	108	—	8.3	8	—
Pioneer 3773 (2X)	28.9	26	27	104.8	120	126	10.1	7	5
Acco UC3300 (2X)	28.9	27	—	100.1	120	—	6.0	5	—
Cowbell SX205 (2X)	29.3	—	—	107.4	—	—	2.3	—	—
Cowbell SX112 (2X)	29.4	26	28	90.1	107	112	12.6	9	6
Bayless SX4395 (2X)	29.5	—	—	103.0	—	—	3.4	—	—
Renk RK44 (2X)	29.5	26	—	96.0	114	—	1.7	2	—
*Michigan 555-3X (3X)	29.6	26	28	113.3	113	121	2.3	6	5
Michigan 572-3X (3X)	29.9	28	—	108.1	125	—	4.0	5	—
Migro M-1010SX (2X)	30.0	27	28	107.9	114	120	4.2	4	3
Super Crost 2552 (2X)	30.1	—	—	96.2	—	—	1.2	—	—
Asgrow RX50 (2X)	30.2	—	—	85.6	—	—	2.9	—	—
Trojan TXS102 (2X)	30.3	—	—	97.8	—	—	3.4	—	—
Lowe SX2TP (2X)	30.8	28	—	93.1	115	—	1.7	3	—
Asgrow RX60 (2X)	31.0	—	—	112.4	—	—	2.4	—	—
*Asgrow RX58 (2X)	31.1	—	—	126.1	—	—	5.8	—	—
*Mich. Exp. 67-3124A (2X)	31.4	—	—	116.7	—	—	3.4	—	—
Super Crost S25 (2X)	31.5	—	—	107.2	—	—	2.2	—	—
Migro M12SX (2X)	31.6	27	29	108.6	111	108	0.0	3	2
Super Crost 2772 (2X)	32.0	—	—	93.8	—	—	3.4	—	—
Michigan 500-2X (2X)	32.0	27	29	112.8	119	123	4.1	4	3
*Pride R407 (2X)	32.1	28	29	116.1	119	126	1.1	3	2
Michigan 568-3X (3X)	32.2	28	29	97.4	114	119	7.0	6	4
Funk Bros. G4444 (2X)	32.2	—	—	111.0	—	—	0.6	—	—
Acco UC3301 (2X)	32.3	—	—	91.2	—	—	2.8	—	—
*Acco UC3600 (2X)	32.4	29	—	116.3	122	—	3.0	2	—
Hulthling X537 (2X)	32.6	28	—	94.9	110	—	3.0	5	—
Bayless SX415 (2X)	32.8	—	—	91.6	—	—	16.6	—	—
*Migro M-5040 (4X)	32.8	—	—	124.6	—	—	0.6	—	—
PrairieStream SX1B (2X)	32.9	28	—	93.4	111	—	2.9	3	—
*Michigan 511-3X (3X)	32.9	28	—	118.9	128	—	0.6	2	—
*Super Crost S63 (2X)	32.9	—	—	128.7	—	—	2.8	—	—
DeKalb XL45A (2X)	33.0	—	—	105.3	—	—	6.7	—	—
Super Crost S28 (2X)	33.0	—	—	98.5	—	—	0.0	—	—
PrairieStream SX3 (2X)	33.1	—	—	110.3	—	—	1.1	—	—
Migro M-0501 (2X)	33.3	—	—	111.1	—	—	0.6	—	—
Hulthling X770 (2X)	33.6	28	—	91.5	112	—	0.6	0	—
Super Crost S65 (2X)	34.1	—	—	87.2	—	—	0.0	—	—
Average	29.8	26	27	101.9	112	112	4.2	5	4
Range	22.8	21	22	69.9	87	92	0.0	0	2
	to	to	to	to	to	to	to	to	to
	34.1	29	29	128.7	128	126	16.0	13	10
Least significant difference	1.0	0.6	0.5	11.2	6	4			

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	May 12	May 20	May 28
Harvested	Oct. 18	Oct. 23	Oct. 23
Soil type	Warsaw loam	Warsaw loam	Warsaw loam
Previous crop	Corn	Alfalfa-grass sod	Corn
Population	20,000	19,500	19,800
Rows	30"	30"	30"
Fertilizer	139-72-152	124-102-108	132-64-122
Soil test: pH	6.0	6.8	6.9
P	46 (very high)	19 (low)	47 (high)
K	242 (high)	106 (low)	236 (high)

Farm Cooperator: Richard Van Vrancken, Climax  
County Extension Director: Vern Hinz, Kalamazoo

**Table 5. SOUTHERN MICHIGAN (Zone 1)  
IRRIGATED UPLAND SOIL — CASS COUNTY TRIAL**

One, Two, and Three Year Averages —  
1971, 1970, 1969

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.
Michigan 280 (4X)	19.5	18	19	119.6	103	105	8.0	11	13
Cowbell SX102 (2X)	19.6	—	—	116.9	—	—	8.6	—	—
Michigan 275-2X (2X)	19.7	18	19	117.4	98	104	11.1	17	17
Mich. Exp. 67-2023 (2X)	21.5	—	—	149.3	—	—	2.9	—	—
Michigan 396-3X (3X)	21.5	19	—	130.3	124	—	2.8	5	—
Michigan 400 (4X)	21.6	20	21	125.3	111	112	3.0	7	9
Northrup King PX556 (3X)	21.8	20	22	129.1	120	125	5.7	11	9
Bayless SX434 (2X)	22.2	20	—	126.5	128	—	8.1	11	—
Pioneer 3784 (2X)	22.2	—	—	118.2	—	—	1.5	—	—
Michigan 572-3X (3X)	22.3	21	22	147.1	139	148	6.0	5	4
Pride R501 (3X)	22.3	—	—	124.1	—	—	3.8	—	—
*Funk Bros. G444 (2X)	22.5	22	23	158.5	145	150	7.9	12	10
Pioneer 3773 (2X)	22.5	21	22	132.1	127	130	3.6	12	11
Michigan 402-2X (2X)	22.6	21	21	125.6	109	114	10.9	18	17
Renk RK44 (2X)	22.7	21	—	150.2	130	—	4.5	7	—
Northrup King PX519 (Sp.)	22.8	21	22	129.3	120	130	8.8	10	8
Bayless SX4395 (2X)	22.9	—	—	147.4	—	—	2.9	—	—
*Moews SM220 (2X)	22.9	21	—	158.5	140	—	0.0	4	—
Migro 540 (4X)	22.8	21	24	140.8	132	138	3.6	7	6
Todd M55 (2X)	23.0	21	22	128.4	114	124	2.3	9	9
Mich. Exp. 67-3124A (2X)	23.0	—	—	149.4	—	—	5.1	—	—
*Pride R407 (2X)	23.1	21	22	155.4	132	137	2.2	7	6
Super Crost 2552 (2X)	23.2	—	—	125.1	—	—	5.0	—	—
Migro M-1010SX (2X)	23.4	21	22	152.0	132	131	3.7	5	7
Cowbell SX205 (2X)	23.5	—	—	135.0	—	—	6.0	—	—
Parker 360 (2X)	23.6	—	—	145.7	—	—	2.9	—	—
Northrup King PX47E (2X)	23.7	—	—	127.4	—	—	3.0	—	—
Cowbell SX206 (2X)	24.0	—	—	143.9	—	—	4.5	—	—
Migro M-5040 (4X)	24.1	—	—	149.8	—	—	0.0	—	—
Super Crost 2772 (2X)	24.2	—	—	145.8	—	—	3.8	—	—
Michigan 555-3X (3X)	24.3	22	23	145.3	123	128	5.0	15	13
PrairieStream SX3 (2X)	24.3	—	—	146.0	—	—	3.6	—	—
Northrup King PX610 (3X)	24.3	22	24	141.1	129	135	9.5	11	10
Blaney B-AA (2X)	24.3	22	—	141.9	124	—	2.9	5	—
Michigan 500-2X (2X)	24.3	22	23	150.0	131	132	2.2	6	7
Trojan TXS102 (2X)	24.3	—	—	135.2	—	—	9.5	—	—
Michigan 568-3X (3X)	24.4	22	23	137.5	130	130	7.2	9	9
Super Crost 4242 (2X)	24.5	—	—	144.5	—	—	3.6	—	—
Moews SM229 (2X)	24.5	22	—	132.1	120	—	3.8	9	—
*Acco UC3301 (2X)	24.6	—	—	155.6	—	—	2.9	—	—
Michigan 511-3X (3X)	24.6	22	—	152.3	137	—	2.9	5	—
Prairie Stream SX1B (2X)	24.8	22	—	146.0	137	—	5.8	8	—
Pioneer 3909 (2X)	25.1	—	—	147.7	—	—	0.0	—	—
Pioneer 3516 (2X)	25.3	22	—	149.8	135	—	1.5	15	—
*Super Crost S63 (2X)	25.4	—	—	169.0	—	—	1.5	—	—
*Super Crost S41 (2X)	25.6	—	—	171.2	—	—	0.7	—	—
Pioneer 3518 (Sp.)	25.7	—	—	149.3	—	—	0.0	—	—
*Bayless SX4795 (2X)	25.9	—	—	169.3	—	—	3.6	—	—
Migro M-0501 (2X)	26.1	—	—	130.9	—	—	0.0	—	—
Todd M30 (2X)	27.9	24	24	124.7	122	125	4.3	6	6
Acco UC5200 (2X)	27.9	24	—	127.0	121	—	3.6	7	—
Super Crost S28 (2X)	28.5	—	—	122.7	—	—	6.5	—	—
Average	23.6	21	22	140.0	126	128	4.1	9	10
Range	19.5	18	19	116.9	98	104	0.0	4	4
	to	to	to	to	to	to	to	to	to
	28.5	24	24	171.2	145	150	11.1	18	17
Least significant difference	0.8	0.6	0.5	13.2	6	4			

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	May 10	May 7	May 13
Harvested	Oct. 20	Oct. 26	Oct. 21
Soil type	Kalamazoo sandy loam	Kalamazoo sandy loam	Kalamazoo sandy loam
Previous crop	Corn	Corn	Corn
Population	23,000	22,700	25,300
Rows	28"	28"	28"
Fertilizer	218-54-138	208-54-138	218-54-138
Irrigation	8.5 inches	3 inches	5 inches
Soil test: pH	5.9	6.6	6.0
P	121 (very high)	73 (very high)	58 (high)
K	330 (very high)	321 (very high)	97 (low)

Farm Cooperator: Dave Cripe, Cassopolis  
County Extension Director: Fred Sackrider, Cassopolis



**Table 6. SOUTHERN MICHIGAN (Zone 1)**  
**MUCK SOIL — CASS COUNTY TRIAL**

One, Two, and Three Year Averages —  
1971, 1970, 1969

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.
Michigan 275-2X (2X)	20.3	19	19	121.2	104	102	10.1	17	15
Michigan 250 (4X)	20.4	19	20	124.7	106	100	1.4	12	11
Michigan 280 (4X)	20.6	19	20	141.3	117	109	10.8	15	12
Michigan 380-3X (3X)	21.1	20	—	133.7	110	—	5.8	15	—
Michigan 300 (4X)	21.8	20	21	139.3	116	107	2.9	12	11
Michigan 396-3X (3X)	21.8	21	—	139.0	123	—	3.5	6	—
Cowbell SX102 (2X)	21.9	—	—	135.6	—	—	14.4	—	—
Pioneer 3956 (2X)	22.6	21	—	141.6	114	—	1.5	17	—
Pioneer 3784 (2X)	22.7	—	—	129.7	—	—	3.6	—	—
Michigan 400 (4X)	22.7	21	22	147.3	118	117	4.4	12	9
Acco U333 (3X)	22.7	—	—	140.9	—	—	12.3	—	—
Acco UC2900 (2X)	22.7	—	—	141.5	—	—	5.7	—	—
Michigan 402-2X (2X)	23.2	21	23	115.9	105	104	13.0	21	17
Moews SM220 (2X)	23.3	—	—	155.0	—	—	5.0	—	—
*Mich. Exp. 67-2023 (2X)	23.4	23	—	164.6	147	—	6.4	13	—
Michigan 572-3X (3X)	24.3	23	25	158.4	144	148	5.1	9	6
Acco UC2301 (2X)	24.4	—	—	158.0	—	—	5.7	—	—
Northrup King PX47E (2X)	24.4	—	—	143.0	—	—	5.0	—	—
Acco UC3300 (2X)	24.5	23	—	146.0	126	—	4.4	13	—
*Bayless SX4395 (2X)	24.9	—	—	165.9	—	—	7.1	—	—
Moews SM229 (2X)	24.9	—	—	159.4	—	—	2.1	—	—
Pioneer 3909 (2X)	25.0	—	—	148.3	—	—	0.7	—	—
Mich. Exp. 67-3124A (2X)	25.0	—	—	158.0	—	—	5.0	—	—
Michigan 555-3X (3X)	25.1	23	24	150.9	123	132	8.6	18	14
*Migro M-1010SX (2X)	25.3	23	24	168.8	131	132	0.0	7	5
*Super Crost S25 (2X)	25.3	—	—	166.4	—	—	5.0	—	—
Parker 360 (2X)	25.5	23	24	149.4	128	137	2.1	10	9
Funk Bros. G4444 (2X)	25.6	24	25	154.3	145	148	2.1	12	11
Michigan 500-2X (2X)	25.6	23	25	158.6	136	138	2.9	12	10
Super Crost S27 (2X)	25.9	24	25	138.7	123	130	5.7	17	14
Michigan 568-3X (3X)	25.9	23	25	139.2	125	129	4.3	8	6
*Acco UC3301 (2X)	26.2	—	—	168.5	—	—	2.1	—	—
Michigan 511-3X (3X)	26.2	23	—	155.5	133	—	0.0	10	—
Pioneer 3773 (2X)	26.2	—	—	140.8	—	—	1.4	—	—
Super Crost S28 (2X)	26.5	—	—	150.2	—	—	2.9	—	—
Migro M-0501 (2X)	28.6	—	—	150.1	—	—	1.4	—	—
*Pioneer 3516 (2X)	28.7	26	—	167.2	147	—	2.8	2	—
Average	24.1	22	23	147.9	125	124	4.8	12	11
Range	20.3	19	19	115.9	104	100	0.0	6	5
	to	to	to	to	to	to	to	to	to
	28.7	26	25	168.8	147	148	14.4	21	17

Least significant difference

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	May 17	May 18	May 16
Harvested	Oct. 19	Oct. 27	Oct. 21
Soil type	Carlisle muck	Carlisle muck	Carlisle muck
Previous crop	Corn	Corn	Corn
Rows	30"	30"	30"
Population	21,000	19,700	19,900
Fertilizer	87-69-60	107-69-100	97-62-129
Soil test: pH	5.4	5.4	5.4
P	85 (very high)	69 (very high)	173 (very high)
K	515 (very high)	570 (very high)	666 (very high)

Farm Cooperators: Oliver, Russell, and Roger Anderson, Cassopolis  
County Extension Director: Fred Sackrider, Cassopolis

**Table 7. SOUTH CENTRAL MICHIGAN (Zone 2)**  
**KENT COUNTY TRIAL**

One Year Averages — 1971  
No trials conducted in 1970 and 1969

Hybrid	% Moisture	Bushels per acre	% Stalk lodging
Funk Bros. G4263 (3X)	20.2	144.7	5.7
Michigan 250 (4X)	20.2	138.0	7.8
Michigan 280 (4X)	20.3	140.4	11.3
Michigan 300 (4X)	20.4	133.8	14.6
Michigan 275-2X (2X)	20.6	143.8	8.8
*Funk Bros. G4252 (3X)	20.9	158.7	5.8
Cowbell SX102 (2X)	21.0	151.0	6.0
Michigan 380-3X (3X)	21.0	151.8	2.7
Pioneer 3956 (2X)	21.2	139.0	12.4
*Michigan 396-3X (3X)	21.2	160.0	3.1
*Acco UC2301 (2X)	21.8	160.3	2.3
Cowbell SX300 (3X)	21.8	130.4	14.8
Acco UC1901 (2X)	21.9	121.7	6.5
*Mich. Exp. 67-2023 (2X)	22.0	162.9	1.6
Cowbell SX002 (2X)	22.2	141.9	1.6
DeKalb XL306 (3X)	22.3	109.3	15.3
DeKalb XL24 (2X)	22.3	135.0	6.5
Michigan 400 (4X)	22.3	129.4	4.7
Acco UC2900 (2X)	22.4	138.2	6.9
Acco U333 (3X)	22.5	133.6	1.7
Michigan 402-2X (2X)	22.5	156.7	7.3
*Pioneer 3784 (2X)	22.6	162.3	5.8
Wolverine 65 (4X)	22.7	109.4	2.6
Funk Bros. G4240 (2X)	22.9	125.0	5.5
DeKalb XL316 (3X)	23.5	118.3	4.7
Wolverine 50 (4X)	24.0	129.4	16.6
*Mich. Exp. 67-3124A (2X)	24.0	172.9	3.3
*Michigan 572-3X (3X)	24.0	175.8	0.0
DeKalb XL22B (2X)	24.0	149.0	14.8
*Acco UC3300 (2X)	24.2	167.7	1.0
Cowbell SX205 (2X)	24.2	124.3	2.4
DeKalb XL22 (2X)	24.3	154.4	3.2
Blaney B-AA (2X)	24.3	136.8	1.6
Pioneer 3773 (2X)	24.4	150.8	11.1
*Funk Bros. G4444 (2X)	24.5	163.2	1.8
*Trojan TSX102 (2X)	24.5	175.0	0.0
Cowbell SX112 (2X)	24.8	136.4	10.5
Migro M-1010 (2X)	24.8	139.7	1.8
*Michigan 500-2X (2X)	24.8	160.9	3.1
*Cowbell Exp. 1 (2X)	24.9	164.4	4.5
*Michigan 555-3X (3X)	25.5	163.8	0.8
*Northrup King PX50A (2X)	25.6	168.2	2.3
*Michigan 511-3X (3X)	25.8	171.9	2.2
*Michigan 568-3X (3X)	25.9	166.1	3.0
*DeKalb XL45A (2X)	25.9	167.5	1.5
Acco UC3301 (2X)	26.9	148.6	9.7
Migro M-0501 (2X)	28.4	138.2	0.0
Average	23.2	146.0	6.0
Range	20.2	109.3	0.0
	to	to	to
	28.4	175.8	16.6

Least significant difference

\*Significantly better than average yield in 1971.

Planted — May 5  
Harvested — October 21  
Soil type — Berville loam  
Previous crop — Corn  
Rows — 36"  
Population — 22,300  
Fertilizer — 225-64-120, manure  
Soil test — pH = 6.4, P = 34 (medium), K = 156 (medium)

Farm Cooperator: Gerald Kayser, Caledonia  
County Agricultural Extension Agent: Robert Knisely, Grand Rapids



**Table 8. SOUTH CENTRAL MICHIGAN (Zone 2)  
OTTAWA COUNTY TRIAL**

**One, Two, and Three Year Averages —  
1971, 1970, 1969**

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.
Michigan 250 (4X)	19.7	20	22	79.4	81	85	4.3	16	17
Pioneer 3956 (2X)	19.7	19	—	65.0	62	—	5.8	25	—
Michigan 275-2X (2X)	19.8	19	20	85.0	85	93	0.6	12	12
Michigan 300 (4X)	20.0	20	22	73.6	88	93	5.3	12	12
Michigan 280 (4X)	20.8	20	21	83.4	88	91	9.3	14	14
Cowbell SX102 (2X)	20.9	20	23	87.6	84	94	1.8	12	11
Michigan 380-3X (3X)	21.4	20	—	91.5	89	—	3.8	14	—
Funk Bros. G4252 (3X)	21.8	22	24	93.0	91	86	0.6	18	15
Funk Bros. G4240 (2X)	22.1	—	—	76.9	—	—	0.0	—	—
Acco UC1901 (2X)	22.3	—	—	96.2	—	—	2.4	—	—
*Acco UC2301 (2X)	22.6	—	—	109.5	—	—	2.3	—	—
DeKalb XL306 (3X)	22.6	22	25	83.8	75	79	6.8	15	14
*Michigan 396-3X (3X)	22.7	22	24	106.7	107	107	4.0	8	6
Cowbell SX002 (2X)	22.8	—	—	82.6	—	—	1.9	—	—
Cowbell 3X300 (3X)	23.0	21	—	75.9	75	—	1.2	10	—
Acco U333 (3X)	23.1	—	—	81.4	—	—	4.2	—	—
Wolverine 65 (4X)	23.1	—	—	82.9	—	—	3.1	—	—
*Mich. Exp. 67-2023 (2X)	23.2	23	25	119.3	114	116	0.0	4	5
Funk Bros. G4263 (3X)	23.4	—	—	78.4	—	—	1.8	—	—
Michigan 400 (4X)	23.7	23	24	89.9	91	96	0.6	12	12
DeKalb XL24 (2X)	23.9	23	—	93.8	88	—	0.6	9	—
*Michigan 402-2X (2X)	24.0	23	25	111.0	100	102	5.8	15	14
*Michigan 500-2X (2X)	24.1	23	26	118.1	105	115	0.0	10	10
Acco UC3300 (2X)	24.3	24	—	90.5	96	—	2.3	11	—
Wolverine 59 (4X)	24.6	—	—	70.2	—	—	1.8	—	—
Pioneer 3784 (2X)	24.6	—	—	87.2	—	—	0.0	—	—
*DeKalb XL22B (Sp.)	24.9	—	—	118.4	—	—	3.0	—	—
*DeKalb XL45A (2X)	24.9	24	—	115.6	98	—	1.7	13	—
Pioneer 3773 (2X)	25.3	24	27	101.5	99	105	0.0	21	17
Cowbell SX112 (2X)	25.4	—	—	102.6	—	—	2.9	—	—
DeKalb XL316 (3X)	25.4	—	—	92.1	—	—	0.6	—	—
Michigan 568-3X (3X)	25.6	24	27	93.8	98	107	0.0	10	10
Acco UC2900 (2X)	25.8	—	—	79.5	—	—	1.8	—	—
*Cowbell SX205 (2X)	25.9	—	—	114.2	—	—	1.1	—	—
*Funk Bros. G4444 (2X)	25.9	26	—	125.0	106	—	0.6	17	—
*Michigan 572-3X (3X)	26.0	25	27	116.3	115	119	0.6	3	3
*Mich. Exp. 67-3124A (2X)	26.0	—	—	122.1	—	—	0.0	—	—
*Blaney B-AA (2X)	26.1	26	27	118.1	101	106	0.6	6	6
Northrup King PX50A (2X)	26.3	—	—	97.6	—	—	0.0	—	—
*Michigan 511-3X (3X)	26.3	25	—	118.0	109	—	0.0	5	—
*Michigan 555-3X (3X)	26.5	25	27	108.4	101	110	1.2	10	10
Migro M-0501 (2X)	27.3	—	—	103.1	—	—	1.7	—	—
Migro M-1010SX	27.7	—	—	84.5	—	—	0.0	—	—
Trojan TXS102 (2X)	28.2	26	—	94.5	96	—	1.2	8	—
DeKalb XL22 (2X)	28.3	—	—	93.9	—	—	1.8	—	—
*Acco UC3301 (2X)	28.7	—	—	113.5	—	—	2.9	—	—
<b>Average</b>	<b>24.6</b>	<b>23</b>	<b>24</b>	<b>95.0</b>	<b>93</b>	<b>100</b>	<b>2.0</b>	<b>12</b>	<b>11</b>
<b>Range</b>	<b>19.7</b>	<b>19</b>	<b>20</b>	<b>65.0</b>	<b>62</b>	<b>79</b>	<b>0.0</b>	<b>3</b>	<b>3</b>
	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>
	<b>28.7</b>	<b>26</b>	<b>27</b>	<b>125.0</b>	<b>115</b>	<b>119</b>	<b>9.3</b>	<b>25</b>	<b>17</b>
<b>Least significant difference</b>	<b>1.0</b>	<b>0.7</b>	<b>0.5</b>	<b>11.0</b>	<b>6</b>	<b>4</b>			

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	May 6	May 9	May 27
Harvested	Oct. 23	Oct. 20	Oct. 28
Previous crop	Corn	Corn	Corn
Population	19,600	19,800	20,100
Rows	30'	30'	30'
Fertilizer	16-72-20, manure	16-64-152, manure	170-80-40
Soil test: pH	6.4	7.0	6.5
P	80 (very high)	320 (very high)	145 (very high)
K	330 (very high)	405 (very high)	293 (high)

Farm Cooperator: 1971 = Jim Busman, Coopersville;  
1970 and 1969 = Marvin Patmos, Jamestown  
County Extension Director: Richard Machiele, Grand Haven



Table 9. SOUTH CENTRAL MICHIGAN (Zone 2) GRAIN — INGHAM COUNTY TRIAL  
One, Two, and Three Year Averages — 1971, 1970, 1969

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.
Michigan 275-2X (2X)	22.0	22	23	105.7	95	102	1.2	4	3
Michigan 280 (4X)	22.3	22	23	105.2	103	104	0.6	2	2
Michigan 250 (4X)	23.1	—	—	95.9	—	—	0.6	—	—
Michigan 300 (4X)	23.2	23	23	96.5	97	98	0.0	1	2
Michigan 380-3X (3X)	23.5	24	—	109.5	108	—	0.6	3	—
Warwick 292 (4X)	23.9	—	—	93.0	—	—	0.6	—	—
*Michigan 396-3X (3X)	24.2	24	25	117.9	120	125	0.6	3	2
Acco UC1900 (2X)	24.6	24	—	112.7	109	—	0.0	2	—
Michigan 400 (4X)	24.7	25	25	102.5	106	109	0.0	0	1
Cowbell SX102 (2X)	24.8	—	—	96.0	—	—	1.1	—	—
Acco UC2300 (2X)	24.8	24	—	110.4	115	—	0.6	1	—
DeKalb XL306 (3X)	25.0	25	26	95.8	91	93	0.0	8	6
Trojan TXS99 (2X)	25.1	—	—	84.9	—	—	0.6	—	—
*Mich. Exp. 67-2023 (2X)	25.1	26	26	121.0	128	132	0.0	0	1
Michigan 402-2X (2X)	25.4	25	26	98.3	105	110	2.3	4	4
Acco UC2900 (2X)	25.4	—	—	102.5	—	—	0.0	—	—
Pride R501 (3X)	25.4	—	—	113.4	—	—	0.0	—	—
Taylor-Evans Hastymaker (4X)	25.6	—	—	72.2	—	—	0.6	—	—
Funk Bros. G4240 (2X)	25.7	25	26	84.4	91	95	0.0	1	1
Funk Bros. G4252 (3X)	25.7	25	—	96.2	87	—	0.6	3	—
Warwick SL416 (2X)	25.9	—	—	97.1	—	—	0.0	—	—
Warwick TX60 (3X)	26.0	—	—	94.1	—	—	0.0	—	—
Pioneer 3784 (2X)	26.3	—	—	115.8	—	—	0.0	—	—
DeKalb XL24 (2X)	26.3	26	—	96.8	97	—	0.6	4	—
Wolverine W166 (2X)	26.4	—	—	114.7	—	—	0.0	—	—
Warwick SL510 (Sp.)	26.5	—	—	98.7	—	—	0.6	—	—
Warwick 405 (4X)	26.5	—	—	115.3	—	—	0.6	—	—
Acco UC2301 (2X)	26.6	—	—	101.8	—	—	1.7	—	—
Cowbell Exp. 3	26.7	—	—	94.3	—	—	2.0	—	—
Asgrow RX58 (2X)	26.7	—	—	102.7	—	—	0.0	—	—
Super Crost S25 (2X)	26.7	—	—	100.5	—	—	0.6	—	—
*Northrup King PX525 (Sp.)	26.7	26	28	118.4	118	127	0.0	1	2
*Acco U333 (3X)	26.7	—	—	118.6	—	—	1.2	—	—
Michigan 572-3X (3X)	26.7	27	28	113.5	124	130	0.6	1	2
Asgrow RX60 (2X)	26.8	—	—	84.4	—	—	0.6	—	—
*Cowbell SX112 (2X)	26.9	26	28	126.1	122	125	0.0	1	1
*Pioneer 3773 (2X)	27.0	26	27	119.4	114	112	0.0	1	1
DeKalb XL22B (Sp.)	27.1	—	—	111.1	—	—	0.0	—	—
Super Crost 2772 (2X)	27.1	—	—	115.4	—	—	0.0	—	—
Super Crost S27 (2X)	27.1	27	28	104.1	107	112	0.0	0	0
Super Crost 2552 (3X)	27.2	—	—	94.7	—	—	1.2	—	—
Acco UC1901 (2X)	27.2	—	—	92.8	—	—	0.6	—	—
Cowbell 3X300 (3X)	27.2	26	27	83.4	97	97	0.0	3	2
Michigan 568-3X (3X)	27.2	27	28	105.4	117	118	0.0	0	1
*Michigan 500-2X (2X)	27.2	27	28	124.3	122	124	0.6	3	2
*Trojan TXS105 (2X)	27.3	—	—	124.3	—	—	0.0	—	—
Michigan 555-3X (3X)	27.4	27	28	114.2	117	124	0.6	1	1
*Michigan 511-3X (3X)	27.4	27	—	121.6	126	—	0.6	1	—
Taylor-Evans Marketmaker (2X)	27.5	—	—	112.2	—	—	0.6	—	—
Renk RK44 (2X)	27.6	—	—	98.8	—	—	0.0	—	—
Trojan TXS94 (2X)	27.9	—	—	94.4	—	—	0.0	—	—
Wolverine W176 (2X)	27.9	28	29	109.2	112	115	0.0	1	1
*Mich. Exp. 67-3124A (2X)	28.0	—	—	119.0	—	—	0.6	—	—
Cowbell SX205 (2X)	28.1	—	—	113.8	—	—	0.0	—	—

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.
DeKalb XL316 (3X)	28.2	—	—	106.2	—	—	0.0	—	—
*Funk Bros. G4444 (2X)	28.2	28	28	120.5	127	136	0.0	2	2
Asgrow RX53 (2X)	28.2	—	—	116.4	—	—	0.0	—	—
Moews SM229 (2X)	28.2	28	—	96.0	105	—	0.0	0	—
Taylor-Evans Timemaker (2X)	28.3	—	—	84.1	—	—	0.0	—	—
*Trojan TXS103 (2X)	28.3	—	—	125.0	—	—	0.0	—	—
Migro M-1010SX (2X)	28.3	27	28	101.9	107	113	0.6	2	2
Wolverine W175 (2X)	28.5	27	29	110.8	107	115	0.0	1	1
Moews SM220 (2X)	28.6	26	—	97.2	102	—	0.0	1	—
Wolverine W176A (2X)	28.8	—	—	99.5	—	—	0.0	—	—
Super Crost S28 (2X)	28.8	—	—	104.5	—	—	0.0	—	—
Cowbell Exp. 2 (2X)	29.0	—	—	92.8	—	—	0.0	—	—
Pride R407 (2X)	29.0	28	29	100.6	114	121	0.0	0	1
Northrup King PX47E (2X)	29.5	—	—	98.3	—	—	0.0	—	—
*Acco UC3300 (2X)	29.6	29	—	119.9	126	—	0.0	1	—
*Acco UC3301 (2X)	29.6	—	—	127.0	—	—	0.0	—	—
Trojan TXS104 (2X)	29.7	—	—	116.3	—	—	0.6	—	—
*DeKalb XL45A (2X)	29.7	29	—	130.4	121	—	0.0	1	—
*Northrup TX71 (3X)	30.0	—	—	118.4	—	—	0.0	—	—
Trojan TXS107 (2X)	30.1	—	—	104.4	—	—	0.0	—	—
Cowbell Exp. 1 (2X)	30.3	—	—	97.0	—	—	0.0	—	—
*Pioneer 3516 (2X)	30.5	—	—	127.8	—	—	0.0	—	—
*Migro M5040 (4X)	30.6	—	—	121.7	—	—	0.0	—	—
Trojan TXS102 (2X)	30.9	29	—	100.1	115	—	0.0	0	—
Pride R450 (2X)	30.9	30	30	115.0	119	122	0.0	0	1
*Super Crost S41 (2X)	31.8	—	—	133.4	—	—	0.6	—	—
Pioneer 3571 (Sp.)	32.4	—	—	101.0	—	—	0.0	—	—
Migro M0501 (2X)	32.6	—	—	107.6	—	—	0.0	—	—
Wolverine W170 (2X)	32.6	30	30	95.5	101	107	0.0	1	1
Average	27.1	26	27	105.2	110	115	0.3	2	2
Range	22.0	22	23	72.2	87	93	0.0	0	0
	to	to	to	to	to	to	to	to	to
	32.6	30	30	133.4	128	138	2.3	8	6
Least significant difference	1.0	0.7	0.6	12.0	7	5			

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	April 30	April 28	May 5
Harvested	Sept. 30	Oct. 2	Oct. 8
Soil type	Conover clay loam	Conover clay loam	Conover clay loam
Previous crop	Corn	Corn	Corn
Population	19,700	20,000	19,400
Rows	36"	36"	36"
Fertilizer	153-70-70**	158-85-85**	185-70-70**
Soil test: pH	6.6	6.4	7.0
P	68 (high)	95 (very high)	41 (high)
K	223 (high)	199 (high)	224 (high)

Farm Cooperator: Michigan State University, East Lansing  
County Extension Director: James Mulvaney, Mason

\*\*Acknowledgement: Anhydrous ammonia donated by Klein Fertilizer Co., Fowlerville, Michigan



Table 10. SOUTH CENTRAL MICHIGAN (Zone 2) SILAGE — INGHAM COUNTY TRIAL

One, Two, and Three Year Averages — 1971, 1970, 1969

Hybrid	% Moisture in ear			Tons per Acre						% Ears in Dry Weight			
	1971	2 3		Green Weight		Dry Weight		1971 Yrs.		1970 Yrs.		1969 Yrs.	
		Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.
Michigan 275-2X (2X)	39.3	31	33	13.0	10.9	11.3	4.7	5.4	5.8	58.4	59	59	
Michigan 250 (4X)	40.9	34	34	16.6	13.4	12.9	5.4	5.8	6.0	50.9	52	54	
Warwick 292 (4X)	41.0	—	—	12.3	—	—	4.1	—	—	51.2	—	—	
Michigan 280 (4X)	42.0	32	32	17.1	13.3	13.4	5.5	6.0	6.5	50.5	56	57	
Taylor-Evans Hastymaker (4X)	42.1	—	—	11.7	—	—	3.9	—	—	49.8	—	—	
Trojan TXS99 (2X)	42.6	—	—	15.0	—	—	5.1	—	—	45.1	—	—	
Acco UC1901 (2X)	43.1	—	—	17.1	—	—	5.4	—	—	52.2	—	—	
Acco UC1900 (2X)	43.2	37	—	15.1	13.9	—	5.1	6.1	—	47.6	51	—	
Michigan 300 (4X)	43.3	34	35	17.3	14.1	13.6	5.8	6.3	6.6	49.6	53	56	
Warwick 405 (4X)	43.9	—	—	17.5	—	—	5.4	—	—	49.5	—	—	
Michigan 380-3X (3X)	44.6	36	—	16.6	13.5	—	5.5	6.1	—	53.5	56	—	
Acco UC2300 (2X)	44.8	37	—	16.5	14.3	—	5.5	6.1	—	52.2	55	—	
Michigan 400 (4X)	45.2	37	39	16.8	14.4	14.8	5.4	5.9	6.5	49.7	51	54	
Funk Bros. G4240 (2X)	45.4	38	40	14.4	11.8	11.3	4.4	4.8	4.8	47.8	55	54	
Trojan TXS94 (2X)	45.7	—	—	15.5	—	—	4.6	—	—	48.2	—	—	
Cowbell 3X300 (3X)	45.8	38	40	15.5	13.2	13.9	5.0	5.4	6.0	47.3	51	51	
Michigan 402-2X (2X)	45.8	37	39	16.9	13.7	14.4	5.6	5.9	6.2	52.3	56	58	
Michigan 396-3X (3X)	46.2	38	40	17.6	15.7	16.1	5.9	6.9	7.2	49.2	52	51	
Warwick SL416 (2X)	46.2	—	—	16.6	—	—	5.2	—	—	54.4	—	—	
DeKalb XL306 (3X)	46.3	38	39	16.0	12.3	12.5	4.9	4.8	5.3	51.3	54	51	
Cowbell Exp. 3 (2X)	46.4	—	—	13.9	—	—	5.0	—	—	51.0	—	—	
Funk Bros. G4252 (3X)	46.4	39	—	14.4	12.8	—	5.1	5.6	—	49.9	51	—	
Warwick SL510 (Sp.)	46.9	—	—	15.0	—	—	5.0	—	—	50.4	—	—	
Asgrow RX58 (2X)	47.0	—	—	18.3	—	—	6.0	—	—	53.2	—	—	
Pride R501 (3X)	47.0	—	—	15.8	—	—	5.2	—	—	46.3	—	—	
Cowbell SX102 (2X)	47.0	—	—	16.9	—	—	5.2	—	—	47.2	—	—	
Asgrow RX53 (2X)	47.0	—	—	17.8	—	—	5.7	—	—	49.1	—	—	
Wolverine W166 (2X)	47.2	—	—	15.4	—	—	4.6	—	—	47.7	—	—	
Pioneer 3784 (2X)	47.3	—	—	15.7	—	—	5.6	—	—	52.5	—	—	
Pioneer 3909 (2X)	47.3	—	—	17.4	—	—	6.0	—	—	48.8	—	—	
DeKalb XL24 (2X)	47.4	39	—	16.6	13.1	—	5.2	5.5	—	52.9	56	—	
Moews SM220 (2X)	47.4	38	—	15.8	13.5	—	5.5	6.0	—	52.1	57	—	
Mich. Exp. 67-2023 (2X)	47.4	39	40	19.8	17.3	16.5	6.4	7.2	7.2	51.9	54	56	
Taylor-Evans Timemaker (4X)	47.5	—	—	15.6	—	—	5.0	—	—	49.1	—	—	
Cowbell SX112 (2X)	47.5	40	39	19.1	15.7	15.4	6.1	6.5	6.8	46.8	54	53	
Warwick TX60 (3X)	47.9	—	—	15.7	—	—	4.9	—	—	44.2	—	—	
Michigan 572-3X (3X)	48.0	40	41	21.6	18.9	18.7	6.3	7.4	7.6	48.3	53	53	
Mich. Exp. 67-3124A (2X)	48.0	—	—	21.7	—	—	6.2	—	—	50.6	—	—	
Michigan 500-2X (2X)	48.1	40	41	18.8	15.5	16.1	5.7	6.1	6.5	53.1	57	54	
Acco UC2900 (2X)	48.1	—	—	18.0	—	—	5.9	—	—	51.1	—	—	
Cowbell SX205 (2X)	48.1	—	—	19.7	—	—	6.4	—	—	47.0	—	—	
Trojan TXS105 (2X)	48.1	—	—	20.1	—	—	6.3	—	—	52.3	—	—	
Wolverine W176 (2X)	48.2	41	43	16.4	14.4	14.7	5.4	5.9	6.1	48.7	55	52	
Super Crost 2772 (2X)	48.2	—	—	19.6	—	—	6.2	—	—	46.4	—	—	
DeKalb XL316 (3X)	48.2	—	—	17.6	—	—	5.6	—	—	48.2	—	—	
Migro M-1010SX (2X)	48.2	40	41	18.6	15.7	15.7	6.0	6.6	7.3	51.4	56	54	
Super Crost S27 (2X)	48.3	40	42	16.8	13.4	14.4	5.6	5.7	6.2	46.3	52	53	
Wolverine W176A (2X)	48.3	—	—	16.8	—	—	5.3	—	—	43.1	—	—	
Acco UC2301 (2X)	48.4	—	—	17.1	—	—	5.5	—	—	45.1	—	—	
Trojan TXS103 (2X)	48.6	—	—	16.0	—	—	4.9	—	—	48.6	—	—	
Wolverine W175 (2X)	48.8	40	43	17.5	14.1	16.0	5.5	5.8	6.5	52.5	56	52	
Pioneer 3773 (2X)	48.9	40	43	16.2	14.0	15.1	4.9	6.1	6.7	46.7	54	51	
Taylor-Evans Marketmaker (2X)	49.0	—	—	19.3	—	—	5.9	—	—	50.0	—	—	

Hybrid	% Moisture in ear			Tons per Acre						% Ears in Dry Weight			
	1971	2 3		Green Weight		Dry Weight		1971 Yrs.		1970 Yrs.		1969 Yrs.	
		Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.	Yrs.
Northrup King PX525 (Sp.)	49.1	41	43	18.0	15.4	16.0	5.9	6.6	7.0	46.9	52	50	
Trojan TXS102 (2X)	49.1	41	—	16.9	15.5	—	5.9	6.8	—	53.1	56	—	
Acco U333 (3X)	49.2	—	—	17.7	—	—	5.6	—	—	49.5	—	—	
Funk Bros. G4444 (2X)	49.2	42	43	19.8	16.6	16.2	6.3	6.7	6.8	52.7	55	55	
Acco UC3300 (2X)	49.3	41	—	18.8	17.1	—	6.2	7.3	—	49.9	53	—	
Moews SM229 (2X)	49.3	41	—	18.5	16.3	—	5.9	6.9	—	45.9	53	—	
DeKalb XL22B (2X)	49.3	—	—	17.1	—	—	5.9	—	—	49.7	—	—	
Michigan 511-3X (3X)	49.4	40	—	20.4	17.7	—	6.4	7.2	—	49.4	53	—	
Northrup King PX47E (2X)	49.4	—	—	17.9	—	—	5.8	—	—	47.9	—	—	
Warwick TX71 (3X)	49.4	—	—	20.5	—	—	6.0	—	—	44.7	—	—	
Michigan 555-3X (3X)	49.5	41	43	21.9	18.1	18.3	6.4	6.7	7.1	50.0	55	56	
Acco UC3301 (2X)	49.5	—	—	20.5	—	—	6.5	—	—	45.2	—	—	
DeKalb XL45A (3X)	49.6	42	—	20.9	15.7	—	6.3	6.0	—	49.5	55	—	
Trojan TXS104 (2X)	49.7	—	—	19.1	—	—	6.0	—	—	47.9	—	—	
Renk RK44 (2X)	49.8	—	—	19.0	—	—	6.5	—	—	43.5	—	—	
Super Crost S25 (2X)	49.8	—	—	20.1	—	—	6.4	—	—	45.7	—	—	
Pride R450 (2X)	50.2	42	44	18.6	17.1	17.0	5.6	6.8	6.8	45.8	51	51	
Michigan 568-3X (3X)	50.4	42	43	20.7	17.3	17.0	5.8	6.4	6.6	45.3	54	54	
Cowbell Exp. 2 (2X)	50.6	—	—	16.7	—	—	5.3	—	—	47.6	—	—	
Wolverine W170 (2X)	51.0	42	45	17.9	13.9	15.1	5.0	5.0	5.6	47.8	52	52	
Asgrow RX60 (2X)	51.1	—	—	21.0	—	—	6.5	—	—	46.8	—	—	
Cowbell Exp. 1 (2X)	51.2	—	—	17.9	—	—	5.4	—	—	51.5	—	—	
Pioneer 3516 (2X)	52.3	—	—	21.6	—	—	5.9	—	—	40.9	—	—	
Pioneer 3571 (Sp.)	52.7	—	—	21.5	—	—	6.3	—	—	40.2	—	—	
Trojan TXS107 (2X)	52.9	—	—	19.3	—	—	5.4	—	—	38.9	—	—	
Migro M-5040 (4X)	52.9	—	—	18.0	—	—	5.1	—	—	40.6	—	—	
Pride R407 (2X)	53.7	44	45	22.2	18.0	18.4	6.2	6.6	7.2	44.1	53	52	
Super Crost S28 (2X)	54.4	—	—	21.2	—	—	5.6	—	—	46.7	—	—	
Super Crost S41 (2X)	55.1	—	—	21.2	—	—	5.8	—	—	40.6	—	—	
Super Crost 2552 (3X)	58.4	—	—	22.2	—	—	5.8	—	—	42.4	—	—	
Migro M-0501 (2X)	59.9	—	—	23.5	—	—	6.0	—	—	37.9	—	—	
Average	48.1	39	40	17.7	14.9	15.3	5.5	6.2	6.5	47.8	54	54	
Range	39.3	31	32	11.7	10.9	11.3	3.9	4.8	4.8	37.9	51	50	
	59.9	44	45	23.5	18.9	18.7	6.5	7.4	7.6	58.4	59	59	
Least Significant difference	1.4	0.9	0.7	1.4	0.8	0.6	0.5	0.4	0.3	3	2	2	

	1971	1970	1969
Planted	April 30	April 28	May 5
Harvested	Sept. 1	Sept. 11	Sept. 11
Soil type	Conover clay loam	Conover clay loam	Conover clay loam
Previous crop	Corn	Corn	Corn
Rows	36"	36"	36"
Population	20,000	19,900	19,500
Fertilizer	183-66-66*	138-75-75*	185-70-70*
Soil test: pH	6.6	6.4	7.0
P	68 (high)	95 (very high)	41 (high)
K	223 (high)	199 (high)	224 (high)
Farm Cooperator:	Michigan State University, East Lansing		
County Extension Director:	James Mulvaney, Mason		
Acknowledgment:	Anhydrous ammonia donated by Klein Fertilizer Co., Fowlerville, Michigan		



Table 11. NORTH CENTRAL MICHIGAN (Zone 3)  
SANILAC COUNTY TRIAL

One, Two, and Three Year Averages —  
1971, 1970, 1969

Hybrid	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging		
	1971	Yrs. Yrs.		1971	Yrs. Yrs.		1971	Yrs. Yrs.		1971	Yrs. Yrs.	
		2	3		2	3		2	3		2	3
Michigan 280 (4X)	24.2	23	24	88.1	104	101	0.0	6	5	38.6		
Michigan 275-2X (2X)	24.6	23	24	86.2	96	100	2.4	5	4	18.8		
Asgrow H68305 (2X)	25.0	—	—	64.6	—	—	0.0	—	—	58.0		
Michigan 250 (4X)	25.5	24	24	91.5	96	95	0.0	3	3	35.0		
P.A.G. 34 (3X)	27.0	25	—	84.6	103	—	0.0	3	—	19.5		
Asgrow ATC35A (3X)	27.4	25	26	86.6	87	89	0.0	2	1	25.7		
Michigan 300 (4X)	27.5	24	25	84.6	97	98	2.9	4	4	39.4		
Pioneer 3911 (2X)	27.7	25	—	100.3	108	—	0.0	3	—	31.1		
Michigan 380-3X (3X)	27.7	25	—	96.7	104	—	0.0	6	—	34.3		
Pioneer 3956 (2X)	27.9	26	26	100.1	106	105	0.0	11	7	38.2		
Pride R200A (2X)	28.1	—	—	92.3	—	—	1.7	—	—	5.8		
Oxy E16 (4X)	28.5	—	—	75.2	—	—	0.0	—	—	35.8		
DeKalb XL12 (2X)	28.5	26	—	107.0	109	—	0.0	0	—	15.4		
Garno S70 (2X)	29.2	—	—	102.9	—	—	0.0	—	—	6.4		
Funk Bros. G4180 (3X)	29.3	—	—	76.9	—	—	0.0	—	—	45.6		
Oxy E22 (4X)	29.5	27	—	94.0	110	—	0.0	2	—	22.3		
Asgrow ATC39 (3X)	29.5	27	—	105.0	106	—	0.0	1	—	29.0		
Garno S85 (2X)	29.6	—	—	100.2	—	—	0.0	—	—	7.9		
Garno S90 (2X)	29.9	—	—	85.3	—	—	0.0	—	—	46.9		
Michigan 400 (4X)	30.1	27	28	93.2	103	106	0.0	3	3	46.8		
DeKalb XL306 (3X)	30.2	—	—	94.4	—	—	0.7	—	—	34.4		
Michigan 396-3X (3X)	30.2	27	—	106.3	128	—	0.0	2	—	31.9		
Pioneer 3909 (2X)	30.7	28	—	85.5	108	—	0.0	1	—	47.5		
Renk R95 (3X)	30.9	—	—	88.1	—	—	1.2	—	—	27.5		
Asgrow ASC43 (2X)	31.2	28	—	104.7	118	—	0.0	2	—	24.4		
*Mich. Exp. 67-2023 (2X)	31.3	29	—	126.8	141	—	0.0	1	—	34.7		
*Gutwein 10A (2X)	31.8	—	—	114.1	—	—	0.0	—	—	9.7		
Funk Bros. G4240 (2X)	32.2	29	30	67.3	101	100	0.0	3	2	29.9		
P.A.G. SX44 (2X)	32.4	—	—	76.6	—	—	0.0	—	—	36.2		
Oxy 362 (2X)	32.5	29	29	86.0	112	112	0.0	1	1	56.3		
Michigan 402-2X (2X)	32.5	28	29	89.9	104	109	0.6	4	3	40.0		
DeKalb XL316 (3X)	32.7	—	—	93.2	—	—	0.0	—	—	36.0		
*Pioneer 3784 (2X)	33.0	—	—	114.0	—	—	0.0	—	—	11.0		
*Michigan 572-3X (3X)	33.1	—	—	113.2	—	—	2.3	—	—	22.5		
Pioneer 3773 (2X)	33.4	30	31	107.3	128	123	0.0	3	2	36.8		
*Funk Bros. G4444 (2X)	33.7	—	—	112.7	—	—	0.0	—	—	33.7		
*Pride R290 (2X)	33.8	29	—	114.5	129	—	0.0	4	—	24.1		
Asgrow RX50 (2X)	34.2	—	—	98.3	—	—	0.0	—	—	38.3		
Asgrow RX53 (2X)	34.4	—	—	100.1	—	—	0.0	—	—	55.3		
*Michigan 500-2X (2X)	34.4	31	31	114.9	130	125	0.0	2	2	27.1		
*Michigan 555-3X (3X)	34.6	31	31	126.7	128	133	2.4	6	4	33.7		
*Northrup King PX47E (2X)	34.8	—	—	124.0	—	—	0.0	—	—	40.5		
*Michigan 511-3X (3X)	34.8	—	—	112.5	—	—	0.0	—	—	27.3		
Pride R407 (2X)	34.9	31	32	91.1	114	111	0.6	1	1	29.8		
Michigan 568-3X (3X)	34.9	31	32	93.9	118	116	0.0	1	1	7.3		
*Mich. Exp. 67-3124A (2X)	35.0	—	—	123.1	—	—	0.0	—	—	21.3		
*Asgrow 1LX4 (2X)	35.6	31	32	115.7	134	128	0.0	2	1	18.3		
*Oxy 420 (2X)	36.5	32	—	112.2	130	—	0.0	3	—	31.8		
Average	31.0	28	28	98.1	117	110	0.3	3	3	30.8		
Range	24.2	23	24	64.6	87	89	0.0	0	1	5.8		
	to	to	to	to	to	to	to	to	to	to		
	36.5	32	32	126.8	141	133	11.4	11	7	58.0		
Least significant difference	1.0	0.7	0.5	12.0	6	4						

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	May 11	May 5	May 17
Harvested	Oct. 20	Nov. 5	Oct. 28
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	19,800	19,300	19,000
Rows	30"	30"	30"
Fertilizer	143-72-72	117-68-188	155-60-60
Soil test: pH	6.2	6.8	6.5
P	85 (very high)	57 (high)	51 (high)
K	214 (high)	274 (high)	138 (medium)

Farm Cooperator: Orville Orchard, Applegate  
County Extension Director: Rex Sieting, Sandusky



Table 12. NORTH CENTRAL MICHIGAN (Zone 3) SAGINAW COUNTY TRIAL

One, Two, and Three Year Averages — 1971, 1970, 1969

Hybrid	% Moisture		Bushels per acre			% Stalk lodging		
	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.
Cowbell SX102 (2X)	19.1	—	87.4	—	0.0	—	—	—
Warwick 214 (4X)	19.3	—	58.6	—	2.3	—	—	—
Michigan 275-2X (2X)	19.5	20 21	83.0	103 104	0.0	5 7	—	—
Michigan 250 (4X)	20.3	21 21	74.1	94 93	2.8	7 7	—	—
Michigan 280 (4X)	20.6	20 21	85.0	108 103	0.0	5 5	—	—
Pride R200A (2X)	20.8	21 —	63.3	99 —	3.6	5 —	—	—
Warwick 292 (4X)	21.2	—	72.5	—	0.0	—	—	—
Trojan TXS85 (2X)	21.2	—	67.6	—	0.0	—	—	—
Acco UC1900 (2X)	21.3	—	81.8	—	1.7	—	—	—
Funk Bros. G4252 (3X)	21.5	22 24	90.4	95 94	0.6	2 5	—	—
Renk R95 (3X)	21.7	—	75.5	—	0.6	—	—	—
Wutwein 10A (2X)	21.7	—	68.2	—	1.2	—	—	—
Trojan TXS99 (2X)	21.7	—	61.7	—	0.0	—	—	—
Pioneer 3956 (2X)	21.9	22 22	55.1	81 84	0.0	6 5	—	—
DeKalb XL12 (2X)	21.9	—	77.6	—	1.2	—	—	—
Warwick 405 (4X)	22.0	—	72.1	—	0.0	—	—	—
Wolverine 59 (4X)	22.0	22 24	88.0	102 107	0.6	2 4	—	—
Super Crost S16 (2X)	22.1	—	80.7	—	0.6	—	—	—
Michigan 300 (4X)	22.1	21 23	79.9	93 94	4.0	4 5	—	—
King Row FS30 (3X)	22.2	—	70.4	—	0.6	—	—	—
Pioneer 3784 (2X)	22.2	—	97.7	—	1.8	—	—	—
Michigan 380-3X (3X)	22.2	22 —	90.8	101 —	0.0	6 —	—	—
Pioneer 3911 (2X)	22.3	22 23	82.2	106 106	0.6	3 8	—	—
Warwick SL416 (2X)	22.4	—	78.4	—	0.0	—	—	—
Michigan 396-3X (3X)	22.6	22 —	99.3	122 —	0.0	3 —	—	—
Pride R290 (2X)	22.7	22 —	74.9	107 —	0.0	2 —	—	—
Wolverine W166 (2X)	22.8	—	92.6	—	0.0	—	—	—
Garno S90 (2X)	22.9	23 —	101.8	114 —	0.6	11 —	—	—
*Trojan TXS94 (2X)	22.9	—	103.0	—	0.0	—	—	—
Blaney B-55A (3X)	23.0	—	100.1	—	1.8	—	—	—
Northrup King KE497 (4X)	23.3	24 26	91.7	119 105	1.2	4 6	—	—
Michigan 400 (4X)	23.4	22 24	85.2	103 107	1.8	3 3	—	—
Michigan 402-2X (2X)	23.4	23 24	96.7	112 110	0.0	6 5	—	—
Acco UC2301 (2X)	23.7	—	82.7	—	0.0	—	—	—
Acco UC1901 (2X)	24.0	—	87.5	—	0.0	—	—	—
Garno S96 (2X)	24.0	24 —	86.8	116 —	0.6	4 —	—	—
DeKalb XL306 (3X)	24.1	23 25	68.2	77 82	2.9	12 9	—	—
Wolverine W65 (4X)	24.2	23 25	88.8	108 109	1.7	5 6	—	—
Blaney B501A (2X)	24.4	—	98.2	—	1.2	—	—	—
*Blaney BX-AA (2X)	24.5	—	110.6	—	0.0	—	—	—
Acco UC2300 (2X)	24.6	—	76.9	—	2.4	—	—	—
*Michigan 572-3X (3X)	24.7	24 —	113.6	135 —	0.0	2 —	—	—
*Northrup King PX47E (2X)	24.7	—	116.3	—	0.0	—	—	—
DeKalb XL21 (2X)	24.8	—	89.2	—	0.0	—	—	—
Asgrow RX60 (2X)	24.8	—	73.7	—	0.0	—	—	—
*Trojan TXS102 (2X)	24.9	—	116.4	—	0.0	—	—	—
*Jacques JX162A (2X)	25.0	—	116.9	—	1.2	—	—	—
DeKalb XL24 (2X)	25.0	25 27	91.3	110 110	0.0	5 4	—	—
DeKalb XL23 (2X)	25.1	25 —	96.2	114 —	0.6	4 —	—	—
Warwick SL510 (Sp.)	25.3	—	95.5	—	0.0	—	—	—

Hybrid	% Moisture		Bushels per acre			% Stalk lodging		
	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.	1971	2 3 Yrs. Yrs.
*P.A.G. SX69 (2X)	25.3	—	107.7	—	0.0	—	—	—
*Mich. Exp. 67-2023 (2X)	25.3	25 —	113.2	141 —	0.0	1 —	—	—
Northrup King PX519 (Sp.)	25.4	24 —	75.3	115 —	0.0	1 —	—	—
Michigan 568-3X (3X)	25.4	25 26	80.8	113 116	0.0	3 3	—	—
King Row KRX501S (2X)	25.4	—	75.6	—	3.5	—	—	—
Super Crost S25 (2X)	25.5	—	94.5	—	0.0	—	—	—
Garno S92 (2X)	25.6	24 25	87.6	109 106	0.6	7 5	—	—
Pioneer 3773 (2X)	25.6	24 26	93.8	121 124	1.2	6 5	—	—
Northrup King PX525 (Sp.)	25.8	24 —	94.3	114 —	0.0	8 —	—	—
Wolverine W176A (2X)	25.8	—	91.8	—	0.0	—	—	—
Blaney B-AA (2X)	25.8	25 —	92.6	122 —	0.0	4 —	—	—
Wolverine W170 (2X)	25.8	25 —	95.0	112 —	0.0	4 —	—	—
*Michigan 500-2X (2X)	25.8	25 27	122.1	132 130	0.0	3 3	—	—
*Michigan 555-3X (3X)	25.9	25 27	106.1	126 126	0.0	5 5	—	—
*Super Crost S27 (2X)	25.9	25 —	104.5	123 —	0.0	2 —	—	—
Trojan TXS103 (2X)	26.0	—	99.4	—	0.0	—	—	—
*Acco UC3300 (2X)	26.0	—	109.5	—	0.6	—	—	—
*Michigan 511-3X (3X)	26.0	25 —	115.0	135 —	0.6	5 —	—	—
*Mich. Exp. 67-3124A (2X)	26.1	—	115.8	—	0.0	—	—	—
*Funk Bros. G4444 (2X)	26.1	26 —	117.0	139 —	0.6	2 —	—	—
DeKalb XL22 (2X)	27.9	—	90.1	—	0.0	—	—	—
Northrup King PX50A (2X)	28.2	—	97.0	—	0.0	—	—	—
*Acco UC3301 (2X)	28.3	—	116.4	—	0.0	—	—	—
Wolverine W176 (2X)	28.3	—	89.4	—	0.6	—	—	—
*DeKalb XL45A (2X)	28.8	—	114.0	—	0.0	—	—	—
*P.A.G. SX53 (2X)	28.9	—	115.2	—	0.0	—	—	—
*Funk Bros. G4360 (3X)	29.0	—	107.2	—	0.0	—	—	—
*DeKalb XL44 (2X)	29.5	—	111.2	—	0.0	—	—	—
Average	24.1	23 24	91.4	112 106	0.5	4 5	—	—
Range	19.1	20 21	55.1	77 82	0.0	0 3	—	—
	29.5	26 27	122.1	141 130	4.0	11 9	—	—
Least significant difference	0.9	0.7 0.6	11.0	7 5				

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	May 3	May 4	May 23
Harvested	Oct. 18	Oct. 24	Oct. 20
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	19,800	20,100	19,800
Rows	30"	30"	30"
Fertilizer	168-108-54	146-96-48	151-106-50
Soil test: pH	7.1	7.5	7.4
P	66 (very high)	50 (high)	50 (high)
K	299 (high)	489 (very high)	230 (medium)

Farm Cooperator: Walter Reinbold and Sons, Reese  
County Extension Director: Ray Vasold, Saginaw







**Table 15. NORTH CENTRAL MICHIGAN (Zone 3)**  
**MONTCALM COUNTY TRIAL — Irrigated vs Not Irrigated**  
**One, Two, and Three Year Averages — 1971, 1970, 1969**

Hybrid	% Moisture			Bushels per acre						% Stalk Lodging					
	1971	2 Yrs.		1971		2 Years		3 Years		1971		2 Years		3 Years	
		Yrs.	Yrs.	Irrig.	Not irrig.	Irrig.	Not irrig.	Irrig.	Not irrig.	Irrig.	Not irrig.	Irrig.	Not irrig.	Irrig.	Not irrig.
Michigan 200 (4X)	21.4	20	20	104.4	33.3	114	62	115	65	13.3	0.8	9	3	6	8
Renk NR1 (2X)	21.9	—	—	91.0	10.6	—	—	—	—	23.4	0.0	—	—	—	—
Pride R200A (2X)	22.6	23	23	123.6	30.0	135	65	—	—	15.2	0.0	11	4	—	—
Pride R221 (3X)	22.9	—	—	136.5	17.6	—	—	—	—	2.2	0.8	—	—	—	—
Michigan 275-2X (2X)	23.2	23	23	147.5	29.7	144	64	146	74	16.7	0.8	5	4	5	12
2Funk Bros. G4180 (2X)	23.2	—	—	139.5	34.5	—	—	—	—	10.3	2.2	—	—	—	—
Michigan 250 (4X)	23.3	23	23	136.8	23.1	138	66	134	72	12.9	3.0	11	6	9	10
Michigan 300 (4X)	23.5	23	23	152.5	24.7	144	62	—	—	4.9	2.2	5	5	—	—
Michigan 280 (4X)	23.9	23	23	153.0	26.4	149	61	149	71	7.1	2.3	7	6	5	10
2Cowbell SX102 (2X)	24.2	24	—	147.1	36.8	147	72	—	—	6.7	0.0	5	3	—	—
2Funk Bros. G4263 (3X)	24.4	—	—	155.0	34.8	—	—	—	—	4.6	0.7	—	—	—	—
2Cowbell SX002 (2X)	24.8	—	—	140.0	34.1	—	—	—	—	1.6	0.8	—	—	—	—
2Michigan 380-3X (3X)	24.8	24	—	142.4	35.6	141	69	—	—	11.7	2.3	10	4	—	—
2Acco UC1900 (2X)	25.0	—	—	160.6	35.8	—	—	—	—	4.5	0.0	—	—	—	—
Northrup King PX20 (2X)	25.0	24	—	157.9	21.1	152	68	—	—	2.2	0.8	4	1	—	—
Michigan 400 (4X)	25.2	25	25	142.8	25.9	140	64	147	75	10.8	0.0	6	2	5	4
Acco UC2300 (2X)	25.4	—	—	156.4	25.5	—	—	—	—	12.8	1.5	—	—	—	—
Pioneer 3911 (2X)	25.4	25	25	129.1	22.6	131	62	137	72	6.0	0.0	3	2	5	9
1Acco UC2301 (2X)	25.5	—	—	178.6	19.1	—	—	—	—	7.9	0.8	—	—	—	—
Funk Bros. Exp. 23553 (2X)	25.6	—	—	156.1	28.0	—	—	—	—	6.8	0.0	—	—	—	—
DeKalb XL15A (2X)	25.6	—	—	171.9	28.4	—	—	—	—	6.9	0.0	—	—	—	—
1Michigan 396-3X (3X)	25.6	25	—	180.5	19.3	173	70	—	—	6.5	0.8	4	1	—	—
1Pioneer 3784 (2X)	25.8	—	—	184.0	12.2	—	—	—	—	3.6	1.6	—	—	—	—
Super Crost S19 (2X)	25.9	25	25	171.7	29.8	170	74	165	80	6.0	3.1	5	2	3	5
Blaney B-55A (3X)	26.0	—	—	158.1	19.9	—	—	—	—	9.2	1.6	—	—	—	—
DeKalb XL306 (3X)	26.0	25	26	121.5	29.6	128	60	136	65	20.6	3.1	15	6	10	12
1Michigan 402-2X (2X)	26.0	25	25	177.4	26.1	160	63	161	75	12.2	1.6	7	2	7	10
2Acco UC1901 (2X)	26.3	—	—	152.8	34.9	—	—	—	—	7.6	0.0	—	—	—	—
2DeKalb XL24 (2X)	26.4	26	27	152.5	36.2	154	73	152	78	5.0	0.7	4	3	3	6
Pioneer 3909 (2X)	26.4	25	—	148.9	32.5	154	67	—	—	4.7	0.8	4	3	—	—
1Mich. Exp. 67-2023 (2X)	26.5	27	—	199.4	30.4	197	79	—	—	10.1	0.0	5	0	—	—
1Pride R290 (2X)	26.7	26	—	185.3	20.7	182	70	—	—	9.4	0.7	6	1	—	—
P.A.G. SX76 (2X)	26.7	—	—	134.2	25.4	—	—	—	—	6.5	0.0	—	—	—	—
1,2Blaney B-AA (2X)	26.8	25	—	184.8	34.1	155	67	—	—	2.9	2.3	3	3	—	—
1Michigan 572-3X (3X)	26.9	—	—	182.6	26.2	—	—	—	—	4.4	0.8	—	—	—	—
1Super Crost S25 (2X)	27.2	—	—	188.9	16.6	—	—	—	—	5.0	0.8	—	—	—	—
1Michigan 500-2X (2X)	27.7	27	27	184.0	27.9	176	77	175	83	6.6	0.0	4	1	3	5
Pioneer 3773 (2X)	28.3	28	28	154.3	21.4	161	66	169	78	6.5	0.8	5	2	3	6
1Super Crost S27 (2X)	28.4	—	—	188.0	27.7	—	—	—	—	3.0	0.8	—	—	—	—
1Michigan 511-3X (3X)	28.5	—	—	208.6	28.4	—	—	—	—	2.2	0.0	—	—	—	—
1Blaney BX-AA (2X)	28.5	—	—	184.9	31.5	—	—	—	—	4.2	0.0	—	—	—	—
1Michigan 568-3X (3X)	28.7	28	28	177.6	24.1	164	67	162	79	8.0	0.8	6	1	5	7
1P.A.G. SX69 (2X)	28.8	—	—	187.6	31.2	—	—	—	—	5.0	0.0	—	—	—	—
1,2Jacques JX162A (2)	28.8	—	—	185.4	34.5	—	—	—	—	15.6	0.8	—	—	—	—
1,2Michigan 555-3X (3X)	29.0	28	28	181.3	41.9	171	81	172	88	8.1	1.5	6	2	4	6
1,2Funk Bros. G4444 (2X)	29.3	—	—	195.3	35.2	—	—	—	—	5.9	0.8	—	—	—	—
1,2Mich. Exp. 67-3124A (2X)	29.4	—	—	191.7	36.2	—	—	—	—	5.7	2.3	—	—	—	—
DeKalb XL45A (2X)	29.9	—	—	167.6	30.0	—	—	—	—	9.7	0.0	—	—	—	—
<b>Average</b>	<b>26.0</b>	<b>25</b>	<b>25</b>	<b>161.1</b>	<b>27.9</b>	<b>154</b>	<b>68</b>	<b>151</b>	<b>76</b>	<b>7.5</b>	<b>0.9</b>	<b>6</b>	<b>3</b>	<b>5</b>	<b>8</b>
<b>Range</b>	<b>21.4</b>	<b>20</b>	<b>20</b>	<b>91.0</b>	<b>10.6</b>	<b>114</b>	<b>60</b>	<b>114</b>	<b>65</b>	<b>1.6</b>	<b>0.0</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>4</b>
	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>	<b>to</b>
	<b>29.9</b>	<b>28</b>	<b>28</b>	<b>208.6</b>	<b>41.9</b>	<b>197</b>	<b>81</b>	<b>175</b>	<b>88</b>	<b>23.4</b>	<b>3.1</b>	<b>15</b>	<b>6</b>	<b>10</b>	<b>12</b>
<b>Least significant difference</b>	<b>0.8</b>	<b>0.6</b>	<b>0.6</b>	<b>15.2</b>	<b>5.8</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>						

<sup>1</sup>Significantly better than average yield, irrigated, 1971  
<sup>2</sup>Significantly better than average yield, not irrigated, 1971

	1971	1970	1969
Planted	May 6	May 8	May 3
Harvested	Oct. 29	Oct. 16	Oct. 31
Soil type	Montcalm sandy loam	Montcalm sandy loam	Montcalm sandy loam
Previous crop	sorghum-sudan seeded to rye in fall	sorghum-sudan seeded to rye in fall	sorghum-sudan seeded to rye in fall
Population	20,300	19,900	19,500
Rows	30"	30"	30"
Fertilizer	160-140-140	213-160-160	205-160-16
Soil test: pH	6.0	6.3	6.2
P	340 (very high)	246 (very high)	242 (very high)
K	246 (high)	255 (high)	237 (high)
Irrigation:	12.5"	5.5"	6.0"

Farm Cooperator: Theron Comden, Lakeview  
County Extension Director: James Corsby, Stanton



**Table 16. NORTH CENTRAL MICHIGAN (Zone 3)  
MASON COUNTY TRIAL**

One and Two Year Averages — 1971 and 1970

Hybrid	% Moisture		Bushels per acre		% Stalk lodging	
	1971	2 Yrs.	1971	2 Yrs.	1971	2 Yrs.
Michigan 200 (4X)	19.5	19	93.7	90	1.2	2
King Row KR90 (4X)	20.9	—	97.1	—	1.2	—
Pride R121 (3X)	22.2	—	105.4	—	0.0	—
DeKalb LX311 (3X)	22.2	—	98.7	—	3.5	—
DeKalb XL307 (3X)	22.2	—	97.2	—	0.0	—
*Michigan 280 (4X)	22.2	21	123.8	111	1.8	—
Pride R221 (3X)	22.3	—	89.1	—	1.8	—
Michigan 250 (4X)	22.4	22	112.0	109	0.6	3
*Michigan 275-2X (2X)	22.5	22	119.6	112	0.6	3
King Row KR85 (4X)	22.8	—	96.4	—	3.2	—
Cowbell SX85 (2X)	23.2	—	102.9	—	2.4	—
Funk Bros. G4180 (3X)	23.2	—	108.9	—	0.6	—
*Funk Bros. G4252 (3X)	23.3	23	123.2	109	0.0	2
Michigan 300 (4X)	23.4	23	109.2	110	0.6	5
Pioneer 3959 (3X)	23.7	23	98.5	95	0.6	5
Funk Bros. G5150 (4X)	24.1	22	97.4	91	0.0	3
Michigan 380-3X (3X)	24.1	23	111.8	105	1.7	2
Bayless SX210 (2X)	24.4	23	106.7	106	0.6	4
*Michigan 396-3X (3X)	24.9	24	119.3	118	0.0	1
Pride R200A (2X)	24.9	24	98.7	102	1.2	3
*Cowbell SX002 (2X)	24.9	—	122.8	—	0.0	—
*Michigan 400 (4X)	25.0	25	122.5	111	0.6	3
*Mich. Exp. 67-2023 (2X)	25.1	26	127.1	128	1.2	1
DeKalb XL306 (3X)	25.4	25	114.4	103	0.0	3
*Pioneer 3911 (2X)	25.4	24	123.6	102	0.6	4
*Cowbell 3X300 (3X)	25.8	25	122.1	112	0.0	1
Michigan 402-2X (2X)	25.8	25	116.7	114	0.6	2
Pioneer 3909 (2X)	26.5	26	107.9	110	0.6	1
Pioneer 3773 (2X)	28.0	27	115.3	112	0.0	2
Average	23.9	24	109.6	108	0.9	3
Range	19.5 to 28.0	19 to 27	89.1 to 127.1	90 to 128	0.0 to 3.5	1 to 5
Least significant difference	0.8	0.6	10.2	6		

\*Significantly better than average yield in 1971.

	1971	1970
Planted	May 8	April 29
Harvested	Oct. 26	Oct. 15
Soil type	Nester loam	Nester loam
Previous crop	Corn	Corn
Population	19,900	19,600
Rows	30"	30"
Fertilizer	118-72-20	122-48-117
Soil test: pH	5.7	5.9
P	125 (very high)	41 (high)
K	386 (very high)	191 (high)

Farm Cooperator: William Courtland, Scottville  
County Extension Director: Dean Raven, Scottville

**Table 17. NORTHERN MICHIGAN (Zone 4)  
GRAND TRAVERSE COUNTY TRIAL**

One and Two Year Averages — 1971 and 1969  
(1970 Trial abandoned due to drouth)

Hybrid	% Moisture		Bushels per acre		% Stalk lodging	
	1971	2 Yrs.	1971	2 Yrs.	1971	2 Yrs.
Trojan TX68 (3X)	22.6	—	74.6	—	0.0	—
A.E.S. 202 (4X)	24.0	28	87.3	87	1.2	4
Michigan 200 (4X)	24.6	28	89.8	97	1.2	3
Pioneer 3873 (4X)	25.5	—	73.9	—	2.5	—
Pride 110 (Sp.)	26.5	—	88.3	—	1.3	—
Trojan M80 (4X)	26.5	—	75.9	—	1.8	—
Trojan TXS85 (2X)	27.1	—	93.4	—	0.0	—
Funk Bros. G5150 (4X)	27.6	—	92.7	—	0.0	—
Jacques 755E (4X)	27.7	—	88.2	—	1.9	—
Michigan 250 (4X)	23.1	31	95.3	95	0.0	1
Jacques JX863 (3X)	28.3	—	96.3	—	0.0	—
Jacques JX22 (2X)	28.5	—	83.0	—	0.0	—
Michigan 280 (4X)	28.7	31	99.2	107	0.6	4
Michigan 275-2X (2X)	28.7	32	96.0	107	0.0	2
*Pride R121 (3X)	29.8	—	99.4	—	0.0	—
Michigan 300 (4X)	30.4	33	95.2	105	0.0	2
*Pioneer 3956 (2X)	30.5	35	99.8	105	0.0	3
Jacques JX902 (2X)	31.3	—	87.7	—	0.0	—
Bayless SX210 (2X)	31.8	—	97.7	—	0.0	—
*Michigan 380-3X (3X)	32.0	—	108.5	—	1.9	—
*Michigan 396-3X (3X)	33.1	—	99.5	—	0.0	—
Average	28.2	31	91.2	100	0.6	2
Range	22.6 to 33.1	28 to 35	73.9 to 108.5	87 to 107	0.0 to 2.5	1 to 4
Least significant difference	1.1	0.8	8.1	6		

\*Significantly better than average yield in 1971.

	1971	1969
Planted	May 18	May 16
Harvested	Oct. 28	Nov. 6
Soil type	Emmett sandy loam	Emmett sandy loam
Previous crop	Corn	Corn
Population	19,000	18,400
Rows	38"	38"
Fertilizer	106-40-40	190-90-210
Soil test: pH	6.2	6.6
P	59 (very high)	28 (medium)
K	187 (high)	81 (low)

Farm Cooperator: Karl Wagner, Grawn  
County Extension Director: George McManus, Traverse City



**Table 18. NORTHERN MICHIGAN (Zone 4)  
SILAGE — MISSAUKEE COUNTY TRIAL**

One Year Averages — 1971

Hybrid	% Moisture in ears	Tons per acre		% Ears in Dry Weight
		Green Weight	Dry Weight	
Trojan TX68 (3X)	40.9	10.3	3.4	64.9
A.E.S. 202 (4X)	44.5	13.6	4.4	63.4
Michigan 200 (4X)	46.4	14.5	4.7	57.7
DeKalb DK22 (4X)	47.2	14.3	4.1	58.6
Trojan M80 (4X)	48.1	12.1	3.9	60.6
DeKalb DX007 (4X)	48.9	14.4	4.3	59.8
Jacques 755E (4X)	49.0	13.6	4.0	59.9
Jacques JX22 (2X)	49.5	14.0	3.9	60.3
Funk Bros. G4082 (3X)	50.3	14.3	4.3	54.9
Funk Bros. G5150 (4X)	50.3	12.2	3.7	60.0
DeKalb XT138 (4X)	50.6	14.1	4.2	56.9
Pride 110 (Sp.)	50.6	12.6	3.9	58.8
Trojan TXS85 (2X)	51.5	14.3	4.0	55.6
Jacques JX863 (3X)	51.8	14.2	4.2	60.2
Michigan 275-2X (2X)	53.8	14.8	4.5	57.5
Jacques JX902 (2X)	54.7	14.4	4.2	52.6
DeKalb XL302 (3X)	54.8	12.8	3.6	57.2
Pioneer 3873 (4X)	55.0	14.7	4.2	55.3
Michigan 280 (4X)	55.0	16.7	4.8	55.0
Bayless SX210 (2X)	55.5	14.1	3.8	53.1
Michigan 250 (4X)	57.4	17.0	4.3	50.5
Michigan 380-3X (3X)	57.4	17.1	4.4	54.6
Pioneer 3956 (2X)	59.5	15.2	4.0	52.9
Michigan 300 (4X)	59.6	18.6	4.6	52.7
Michigan 396-3X (3X)	61.2	19.3	4.5	53.1
Average	51.9	14.6	4.1	57.0
Range	40.9 to 61.2	10.3 to 19.3	3.4 to 4.8	50.5 to 64.9
Least significant difference	1.8	1.2	.4	3.4

Planted — May 12  
Harvested — September 10  
Soil type — Nester clay loam  
Previous crop — Grass sod  
Rows — 30"  
Population — 19,400  
Fertilizer — 227-108-108

Cooperators: Robert De Boer, M.S.U. Lake City Experiment Station, Lake City.  
L. V. Nelson, Crop and Soil Science Dept., M.S.U.  
County Extension Director: Vern VandePol, Lake City

**Table 19. NORTHERN MICHIGAN (Zone 4)  
GRAIN — ALPENA COUNTY TRIAL**

One, Two, and Three Year Averages —  
1971, 1970, 1969

Hybrid	% Moisture			Bushels per acre			% Stalk lodging		
	1971	2 Yrs. Yrs.	3 Yrs.	1971	2 Yrs. Yrs.	3 Yrs.	1971	2 Yrs. Yrs.	3 Yrs.
Michigan 200 (4X)	24.4	25	29	146.8	130	124	20.7	15	13
A.E.S. 202 (4X)	25.4	26	29	144.2	130	123	20.8	15	12
Renk R70 (3X)	25.9	—	—	124.7	—	—	45.3	—	—
Seneca XR17 (2X)	25.9	—	—	148.1	—	—	28.8	—	—
Warwick SL209 (2X)	26.4	—	—	157.7	—	—	36.2	—	—
Funk Bros. G4082 (3X)	26.4	—	—	157.3	—	—	23.9	—	—
Northrup King PX442 (Sp.)	28.7	32	35	143.3	120	124	5.6	9	6
Funk Bros. G5150 (4X)	29.0	—	—	126.0	—	—	18.7	—	—
*Michigan 250 (4X)	29.0	29	33	166.3	146	129	6.4	8	7
DeKalb XL302 (3X)	29.3	—	—	142.4	—	—	19.3	—	—
Seneca XX155 (3X)	29.5	31	34	144.0	126	125	3.6	9	7
Northrup King PX446 (Sp.)	29.5	34	37	132.4	115	117	7.1	8	6
Pioneer 3873 (4X)	29.7	28	—	137.6	119	—	12.9	14	—
DeKalb XT138 (4X)	30.0	33	35	122.5	106	107	10.4	12	8
*Michigan 280 (4X)	30.1	30	34	170.7	148	144	11.0	11	9
Warwick 214 (4X)	30.1	—	—	147.5	—	—	15.2	—	—
DeKalb DK22 (4X)	30.4	32	—	147.6	131	—	27.4	19	—
Jacques 854E (4X)	30.6	—	—	131.0	—	—	24.1	—	—
*Michigan 275-2X (2X)	31.0	31	34	182.9	150	146	16.9	15	10
Renk Ex. 2 (2X)	31.4	—	—	146.3	—	—	25.5	—	—
Pioneer 3956 (2X)	31.6	37	39	155.9	129	124	8.2	11	7
Bayless SX210 (2X)	32.2	—	—	154.2	—	—	4.3	—	—
*Michigan 300 (4X)	32.9	36	38	197.2	146	139	11.0	11	8
Pride 137 (4X)	33.2	36	38	139.4	120	121	32.8	19	16
Michigan 380-3X (3X)	33.7	—	—	151.2	—	—	6.3	—	—
*Michigan 396-3X (3X)	34.4	—	—	176.5	—	—	8.7	—	—
Jacques 951E (4X)	36.0	32	—	132.9	116	—	16.5	14	—
Average	29.6	31	34	146.2	126	123	18.1	14	11
Range	22.0 to 36.0	25 to 37	29 to 39	77.5 to 197.2	85 to 150	71 to 146	3.6 to 45.3	8 to 25	6 to 27
Least significant difference	1.3	0.9	0.6	15.4	6	4			

\*Significantly better than average yield in 1971.

	1971	1970	1969
Planted	May 14	May 12	May 27
Harvested	Oct. 28	Oct. 31	Oct. 17
Soil type	Onaway loam	Onaway loam	Onaway loam
Previous crop	Cucumbers	Corn	Corn
Population	28"	28"	28"
Rows	20,200	19,700	19,200
Fertilizer	232-128-212	121-84-84	200-80-136

Farm Cooperator: William Bartow, Alpena  
County Extension Director: A. H. Nickels, Alpena  
Cooperator: L. V. Nelson, Crop and Soil Science Dept., M.S.U.



**Table 20. NORTHERN MICHIGAN (Zone 4)  
SILAGE — ALPENA COUNTY TRIAL**

One, Two, and Three Year Averages —  
1971, 1970, 1969

Hybrid	% Moisture in ear			Tons per Acre						% Ears in Dry Weight		
	1971	2 Yrs.	3 Yrs.	Green Weight			Dry Weight			1971	2 Yrs.	3 Yrs.
				1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.			
Trojan TX68 (3X)	43.5	41	43	14.2	14.3	14.0	4.6	4.6	4.9	58.6	62	57
A.E.S. 202 (4X)	50.5	45	48	23.8	22.0	23.0	6.3	6.2	6.6	51.4	58	48
Warwick SL209 (2X)	52.6	—	—	25.3	—	—	6.7	—	—	57.2	—	—
Renk R70 (3X)	52.9	—	—	24.2	—	—	6.1	—	—	46.7	—	—
DeKalb DK22 (4X)	52.9	49	—	20.8	20.5	—	5.5	5.4	—	51.0	57	—
Warwick 214 (4X)	53.0	—	—	23.4	—	—	6.0	—	—	54.0	—	—
Funk Bros. G4082 (3X)	53.2	—	—	25.9	—	—	6.9	—	—	52.6	—	—
Michigan 200 (4X)	54.0	48	50	24.9	23.0	23.1	6.6	6.5	6.5	49.7	56	52
DeKalb XL302 (3X)	55.5	—	—	24.1	—	—	6.3	—	—	50.1	—	—
Funk Bros. G5150 (4X)	56.7	—	—	24.7	—	—	6.3	—	—	48.4	—	—
Renk Exp. 2 (2X)	57.4	—	—	24.1	—	—	6.0	—	—	50.2	—	—
DeKalb XT138 (4X)	57.4	51	53	22.8	20.9	22.7	5.9	5.7	6.2	42.8	51	47
Seneca XR17 (2X)	57.8	—	—	26.6	—	—	6.6	—	—	44.6	—	—
Pioneer 3873 (4X)	57.8	53	—	25.5	24.8	—	6.5	6.6	—	46.8	53	—
Michigan 275-2X (2X)	57.9	54	56	27.4	26.4	26.9	7.3	6.9	7.1	47.3	53	51
Jacques 854E (4X)	58.2	—	—	23.5	—	—	5.6	—	—	42.9	—	—
Northrup King PX442 (Sp.)	58.9	54	56	23.7	23.6	25.3	6.0	6.1	6.6	43.0	50	48
Pride 137 (4X)	59.1	54	56	26.1	25.4	26.5	6.7	6.6	7.0	45.7	53	48
Michigan 250 (4X)	59.2	54	55	28.0	28.4	26.5	6.7	6.6	6.7	44.1	51	46
Michigan 280 (4X)	59.6	53	55	29.9	28.7	28.8	6.8	7.0	7.3	43.0	51	46
Jacques 951E (4X)	60.7	55	—	25.6	25.7	—	6.1	6.3	—	43.9	52	—
Michigan 300 (4X)	60.9	56	59	30.7	29.6	30.0	7.4	7.2	7.3	44.4	48	45
Seneca XX155 (3X)	60.9	56	56	27.6	26.2	26.2	7.1	6.7	6.8	46.6	53	50
Pioneer 3956 (2X)	61.9	56	59	29.3	26.3	27.0	7.0	6.7	6.9	39.2	49	43
Northrup King PX446 (Sp.)	62.4	55	56	24.5	26.1	26.7	5.9	6.8	7.0	37.6	46	43
Michigan 380-3X (3X)	62.4	—	—	28.3	—	—	6.5	—	—	42.5	—	—
Bayless SX210 (2X)	63.7	—	—	28.7	—	—	6.8	—	—	39.5	—	—
Michigan 396-3X (3X)	64.3	—	—	29.4	—	—	7.0	—	—	38.4	—	—
Average	57.5	52	54	25.5	24.3	25.1	6.4	6.3	6.7	46.2	53	49
Range	43.5	41	43	14.2	14.3	14.0	4.6	4.6	4.9	37.6	46	43
Least Significant difference	1.7	1.2	1.0	1.5	0.9	0.6	0.6	.4	.3	3.8	3	3

	1971	1970	1969
Planted	May 14	May 12	May 27
Harvested	Sept. 9	Sept. 18	Sept. 16
Soil type	Onaway loam	Onaway loam	Onaway loam
Previous crop	Cucumbers	Corn	Corn
Rows	28"	28"	28"
Population	20,400	19,700	19,200
Fertilizer	232-128-212	121-84-84	200-80-136

Farm Cooperator: William Bartow, Ossineke  
County Extension Director: A. H. Nickels, Alpena  
Cooperator: L. V. Nelson, Crop and Soil Science Dept., M.S.U.

**Table 21. NORTHERN MICHIGAN (Zone 4)  
SILAGE — ALGER COUNTY TRIAL**

One, Two, and Three Year Averages —  
1971, 1970, 1969

Hybrid	% Moisture in ear			Tons per Acre						% Ears in Dry Weight		
	1971	2 Yrs.	3 Yrs.	Green Weight			Dry Weight			1971	2 Yrs.	3 Yrs.
				1971	2 Yrs.	3 Yrs.	1971	2 Yrs.	3 Yrs.			
Trojan TX68 (3X)	39.5	39	42	9.3	8.6	8.6	3.9	3.9	3.5	49.0	52	52
WeatherMaster CD2 (4X)	40.4	43	45	7.5	8.1	9.0	3.2	3.6	3.5	47.3	52	50
Wisconsin 243 (3X)	43.6	44	48	11.5	10.7	12.1	3.9	3.8	3.8	41.2	48	42
A.E.S. 202 (4X)	43.6	45	45	12.1	11.9	12.9	4.5	4.7	4.5	43.2	47	46
Wisconsin 253 (3X)	43.8	44	—	12.0	11.8	—	3.9	4.1	—	38.7	44	—
DeKalb DK22 (4X)	44.1	45	—	13.8	12.5	—	4.6	4.5	—	43.5	43	—
Wisconsin 233 (3X)	44.9	44	—	8.9	10.4	—	3.0	3.8	—	36.3	44	—
Northrup King KC3 (4X)	44.9	46	49	11.2	10.8	12.3	4.1	4.1	4.2	44.9	52	49
Wisconsin 255 (4X)	45.0	45	—	11.2	9.5	—	4.0	3.5	—	43.4	47	—
Wisconsin 240 (4X)	45.4	43	—	11.3	10.8	—	4.4	4.2	—	43.4	46	—
Michigan 200 (4X)	45.4	47	50	13.3	13.5	14.3	4.5	4.6	4.4	46.0	47	46
Funk Bros. G4082 (3X)	47.4	48	—	12.4	11.4	—	4.0	4.0	—	40.5	43	—
DeKalb DX007 (4X)	47.8	—	—	9.7	—	—	3.3	—	—	41.5	—	—
Teweles 201 (4X)	48.4	49	53	10.9	11.5	13.4	3.4	4.0	4.1	41.1	45	43
Michigan 275-2X (2X)	49.0	49	54	13.1	12.2	14.3	4.8	4.6	4.7	45.4	47	43
Pioneer 3873 (4X)	50.6	50	—	10.8	11.9	—	3.9	4.5	—	38.1	43	—
Michigan 280 (4X)	52.1	52	57	14.9	15.0	16.6	4.6	4.8	4.8	35.1	40	38
Michigan 250 (4X)	52.9	53	56	13.1	15.4	16.5	4.2	5.0	4.8	35.0	37	37
Michigan 300 (4X)	53.6	54	59	16.2	16.5	18.0	4.9	5.3	5.1	34.2	38	35
Average	46.5	46	51	11.4	11.8	13.5	4.0	4.2	4.3	41.5	45	44
Range	39.5	39	42	7.5	8.1	8.6	3.0	3.5	3.5	34.2	37	35
Least Significant difference	1.7	1.3	1.0	1.3	0.8	0.6	.5	.4	.3	3.3	3	3

	1971	1970	1969
Planted	May 27	May 21	May 22-23
Harvested	Oct. 13-15	Sept. 30 - Oct. 8	Sept. 24-26
Soil type	Chatham stoney loam	Chatham stoney loam	Chatham stoney loam
Previous crop	Corn	Corn	Corn
Rows	36"	36"	36"
Population	16,900	17,200	16,700
Fertilizer	46-46-46	118-72-72	26-77-77

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



**Table 22. Index for 245 hybrids entered as 1,053 entries in the 1971 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 (4X) a double-cross hybrid. Company names used in association with hybrid numbers refer to the brand and the number is the hybrid designation.**

ACCO Seed, Box 9, Belmond, Iowa

Acco U533 (3x) (6, 7, 8, 9, 10)  
 Acco U569 (3x) (2, 3)  
 Acco U578 (3x) (2, 3)  
 Acco DC393 (4x) (1, 3)  
 Acco UC1900 (2x) (3, 9, 10, 12, 15)  
 Acco UC1901 (2x) (3, 7, 8, 9, 10, 12, 15)  
 Acco UC2300 (2x) (9, 10, 12, 15)  
 Acco UC2301 (2x) (2, 3, 4, 6, 7, 8, 9, 10, 12, 15)  
 Acco UC2900 (2x) (6, 7, 8, 9, 10)  
 Acco UC3300 (2x) (1, 3, 4, 6, 7, 8, 9, 10, 12)  
 Acco UC3301 (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12)  
 Acco UC3600 (2x) (1, 3, 4)  
 Acco UC4400 (2x) (1)  
 Acco UC5200 (2x) (15)

Asgrow Seed Co., Box 407, Oxford, Indiana

Asgrow 1Lx4 (2x) (11)  
 Asgrow ATC35A (3x) (4, 11)  
 Asgrow ATC39 (3x) (11)  
 Asgrow ASC43 (2x) (11, 13, 14)  
 Asgrow RX50 (2x) (4, 11)  
 Asgrow RX53 (2x) (2, 4, 9, 10, 11)  
 Asgrow RX58 (2x) (2, 4, 9, 10)  
 Asgrow RX60 (2x) (2, 4, 9, 10, 12)  
 Asgrow H68305 (2x) (11)

Bayless Hybrids, Route 1, Bluffton, Indiana

Bayless SX210 (2x) (16, 17, 18, 19, 20)  
 Bayless SX415 (2x) (3, 4)  
 Bayless SX415 (3x) (3)  
 Bayless SX434 (2x) (2, 3, 4, 5)  
 Bayless SX485 (3x) (1, 2, 3)  
 Bayless SX615-5 (2x) (3)  
 Bayless SX1795 (2x) (3)  
 Bayless SX4395 (2x) (1, 2, 4, 5, 6)  
 Bayless SX4795 (2x) (1, 5)  
 Bayless SX6495 (3x) (3)

Blaney Farms, Inc., Route 4, Madison, Wisconsin

Blaney B-AA (2x) (1, 2, 5, 7, 8, 12, 15)  
 Blaney BX-AA (2x) (1, 12, 15)  
 Blaney B-55A (3x) (1, 12, 15)  
 Blaney B501A (2x) (12)  
 Blaney B601 (Sp.) (2)  
 Blaney 6616 (Sp.) (2)

Cowbell Seeds, Inc., Wayland, Michigan

Cowbell SX002 (2x) (4, 7, 8, 15, 16)  
 Cowbell SX85 (2x) (16)  
 Cowbell SX102 (2x) (4, 5, 6, 7, 8, 9, 10, 12, 15)  
 Cowbell SX112 (2x) (2, 4, 7, 8, 9, 10)  
 Cowbell SX205 (2x) (1, 2, 4, 5, 7, 8, 9, 10)  
 Cowbell SX206 (2x) (5)  
 Cowbell SX209 (2x) (3)  
 Cowbell SX300 (3x) (3, 4, 7, 8, 9, 10, 16)  
 Cowbell Exp. 1 (2x) (7, 9, 10)  
 Cowbell Exp. 2 (2x) (9, 10)  
 Cowbell Exp. 3 (2x) (9, 10)

DeKalb Ag Research, Inc., DeKalb, Illinois

DeKalb DK007 (4x) (18, 21)  
 DeKalb XL12 (2x) (11, 12, 13, 14)  
 DeKalb XL15A (2x) (13, 14, 15)  
 DeKalb XL21 (2x) (12, 13, 14)  
 DeKalb XL22 (2x) (2, 7, 8, 12, 13, 14)  
 DeKalb XL22B (Sp.) (7, 8, 9, 10, 13, 14)  
 DeKalb DK22 (4x) (18, 19, 20, 21)  
 DeKalb XL23 (Sp.) (12)  
 DeKalb XL24 (2x) (4, 7, 8, 9, 10, 12, 15)  
 DeKalb XL44 (2x) (1, 2, 12, 13, 14)  
 DeKalb XL45A (2x) (1, 2, 3, 4, 7, 8, 9, 10, 12, 13, 14, 15)  
 DeKalb XT138 (4x) (18, 19, 20)  
 DeKalb XL302 (3x) (18, 19, 20)  
 DeKalb XL306 (3x) (3, 7, 8, 9, 10, 11, 12, 15, 16)  
 DeKalb XL307 (3x) (16)  
 DeKalb XL311 (3x) (16)  
 DeKalb XL316 (3x) (7, 8, 9, 10, 11, 13, 14)  
 DeKalb XL347 (3x) (1)

Merrill Eady, Funk Bros. Seed Co., Grant, Michigan

Funk Bros. G4082 (3x) (18, 19, 20, 21)  
 Funk Bros. G4180 (3x) (11, 13, 14, 15, 16)  
 Funk Bros. G4240 (2x) (7, 8, 9, 10, 11, 13, 14)  
 Funk Bros. G4252 (3x) (4, 7, 8, 9, 10, 12, 13, 14, 16)  
 Funk Bros. G4263 (3x) (7, 8, 15)  
 Funk Bros. G4360 (3x) (12)  
 Funk Bros. G4384 (2x) (1, 2, 3)  
 Funk Bros. G4444 (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)

Funk Bros. G4445 (2x) (2)  
 Funk Bros. G5150 (4x) (16, 17, 18, 19, 20)  
 Funk Bros. G5207 (4x) (1, 3)  
 Funk Bros. Exp. 23553 (2x) (15)

Edward J. Funk and Sons, Kentland, Indiana\*

Super Crost S16 (2x) (2, 12, 13, 14)  
 Super Crost S19 (2x) (1, 2, 15)  
 Super Crost S25 (2x) (1, 2, 3, 4, 6, 9, 10, 12, 13, 14, 15)  
 Super Crost S27 (2x) (1, 2, 6, 9, 10, 12, 13, 14, 15)  
 Super Crost S28 (2x) (1, 2, 3, 4, 5, 6, 9, 10)  
 Super Crost S41 (2x) (1, 2, 5, 9, 10)  
 Super Crost S63 (2x) (1, 2, 3, 4, 5)  
 Super Crost S65 (2x) (1, 2, 3, 4)  
 Super Crost S52 (3x) (1, 4, 5, 9, 10)  
 Super Crost 2772 (2x) (1, 2, 4, 5, 9, 10)  
 Super Crost 4242 (3x) (1, 2, 5)

Garno Seed Co., Deerfield, Michigan

Garno S70 (2x) (11)  
 Garno S85 (2x) (11)  
 Garno S90 (2x) (11, 12)  
 Garno S92 (2x) (1, 12)  
 Garno S96 (2x) (1, 12, 13, 14)

Fred Gutwein & Sons, Inc., Francesville, Indiana

Gutwein 10A (2x) (1, 3, 11, 12)  
 Gutwein Ex. 25 (2x) (1)  
 Gutwein 40 (2x) (1, 3)  
 Gutwein 69A (2x) (1, 3)  
 Gutwein 70A (2x) (1, 3)

G. E. Hulting & Son, Inc., Geneseo, Illinois

Hulting X537 (2x) (2, 3, 4)  
 Hulting X539 (2x) (3)  
 Hulting X770 (2x) (2, 3, 4)  
 Hulting X2772 (3x) (3)  
 Hulting X9761 (3x) (2, 3)  
 Hulting X9770 (3x) (2, 3)

Jacques Seed Co., Prescott, Wisconsin

Jacques JX22 (2x) (15, 17, 18)  
 Jacques JX162A (2x) (12, 13, 14, 15)  
 Jacques 755E (4x) (18)  
 Jacques 780E (4x) (17)  
 Jacques 854E (4x) (19, 20)  
 Jacques JX863 (3x) (17, 18)  
 Jacques JX902 (2x) (17, 18)  
 Jacques 951E (4x) (19, 20)  
 Jacques JX1052E (2x) (13, 14)

King Row Hybrids, South Portsmouth Road, Saginaw, Michigan

King Row FS30 (3x) (12)  
 King Row KR85 (4x) (16)  
 King Row KR90 (4x) (16)  
 King Row KRX5015 (2x) (12)

Lowe Seed Co., Box 44, Kankakee, Illinois

Lowe SX2TP (2x) (2, 3, 4)  
 Lowe TWX2 (3x) (3)  
 Lowe XR202 (2x) (2)  
 Lowe XR203 (2x) (3)  
 Lowe XM333 (2x) (2)

Michigan Crop Improvement Association, East Lansing, Michigan

Michigan 200 (4x) (13, 14, 15, 16, 17, 18, 19, 20, 21)  
 A.E.S. 202 (4x) (17, 18, 19, 20, 21)  
 Michigan 250 (4x) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)  
 Michigan 275-2X (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)  
 Michigan 280 (4x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)  
 Michigan 402-2X (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)  
 Michigan 500-2X (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)  
 Michigan 511-3X (3x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)  
 Michigan 555-3X (3x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)  
 Michigan 300 (4x) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)  
 Michigan 380-3X (3x) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)  
 Michigan 396-3X (3x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)  
 Michigan 400 (4x) (1, 2, 3, 4, 5, 6, 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)

Michigan 572-3X (3x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)  
 Mich. Exp. 67-2023 (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)  
 Mich. Exp. 67-3124A (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)

Michigan Hybrid Seed Co., 974 Rosewood Ave., East Lansing, Michigan

Wolverine 24 (4x) (13, 14)  
 Wolverine 25 (4x) (13, 14)  
 Wolverine 59 (4x) (7, 8, 12)  
 Wolverine 65 (4x) (7, 8, 12)  
 Wolverine W166 (2x) (9, 10, 12)  
 Wolverine W170 (2x) (1, 2, 9, 10, 12)  
 Wolverine W175 (2x) (1, 2, 3, 9, 10)  
 Wolverine W176 (2x) (1, 9, 10, 12)  
 Wolverine W176A (2x) (1, 2, 9, 10, 12)

Midwest Research Associates, Dassel, Minnesota

Weather Master CD2 (4x) (21)

Migro Hybrids, Box 7, Mitchell, Indiana

Migro M12SX (2x) (4)  
 Migro M-0501 (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)  
 Migro 540 (4x) (5)  
 Migro M-1010SX (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)  
 Migro M-5040 (4x) (2, 4, 5, 9, 10)

Moews Seed Co., P.O. Box 277, Granville, Illinois

Moews SM220 (2x) (3, 5, 6, 9, 10)  
 Moews SM229 (2x) (3, 5, 6, 9, 10)

Northrup King & Co., 1500 Jackson St., N.E., Minneapolis, Minnesota

Northrup King KC3 (4x) (21)  
 Northrup King PK20 (2x) (15)  
 Northrup King PK47E (2x) (5, 6, 9, 10, 11, 12)  
 Northrup King PK50A (2x) (2, 7, 8, 12)  
 Northrup King PK442 (Sp.) (19, 20)  
 Northrup King PK446 (Sp.) (19, 20)  
 Northrup King KE497 (4x) (3, 12, 13, 14)  
 Northrup King PK519 (Sp.) (5, 12)  
 Northrup King PK525 (Sp.) (9, 10, 12)  
 Northrup King PK556 (3x) (5)  
 Northrup King P5610 (3x) (2, 5)

Occidental Chemical Co., Applegate and Bad Axe, Michigan

Oxy E16 (4x) (11, 13, 14)  
 Oxy E22 (4x) (11)  
 Oxy E26 (4x) (13, 14)  
 Oxy 352 (2x) (13, 14)  
 Oxy 362 (2x) (11, 13, 14)  
 Oxy 420 (2x) (11, 13, 14)

Roy Parker & Sons, Inc., Box 125, Kimmell, Indiana

Parker 360 (2x) (3, 5, 6)

P-A-G Seeds, Inc., Aurora, Illinois

P.A.G. SX7 (2x) (3)  
 P.A.G. 34 (3x) (11)  
 P.A.G. SX44 (2x) (11)  
 P.A.G. SX48 (2x) (3)  
 P.A.G. SX53 (2x) (12)  
 P.A.G. SX67 (2x) (3)  
 P.A.G. SX69 (2x) (12, 13, 14, 15)  
 P.A.G. SX76 (2x) (15)  
 P.A.G. 216 (3x) (3)

Pioneer Corn Co., 221 N. Main St., Tipton, Indiana

Pioneer 3516 (2x) (1, 2, 5, 6, 9, 10)  
 Pioneer 3518 (Sp.) (1, 2, 3, 5)  
 Pioneer 3571 (Sp.) (1, 2, 9, 10)  
 Pioneer 3773 (2x) (1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16)  
 Pioneer 3784 (2x) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15)  
 Pioneer 3873 (4x) (17, 18, 19, 20, 21)  
 Pioneer 3909 (2x) (5, 6, 9, 10, 11, 13, 14, 15, 16)  
 Pioneer 3911 (2x) (11, 12, 13, 14, 15, 16)  
 Pioneer 3956 (2x) (6, 7, 8, 11, 12, 13, 14, 17, 18, 19, 20)  
 Pioneer 3959 (3x) (17)

Prairie Stream Farms, Inc., R.R. #3, Frankfort, Indiana

Prairie Stream SX1B (2x) (4, 5)  
 Prairie Stream SX3 (2x) (4, 5)

Pride Seed, Inc., R.R. #1, Quincy, Michigan

Pride 110 (Sp.) (17, 18)  
 Pride R121 (3x) (16, 17, 18)  
 Pride 137 (4x) (19, 20)  
 Pride R200A (2x) (11, 12, 13, 14, 15, 16)  
 Pride R221 (2x) (13, 14, 15, 16)  
 Pride R290 (2x) (11, 12, 13, 14, 15)  
 Pride R407 (2x) (3, 4, 5, 9, 10, 11, 13, 14)  
 Pride R450 (2x) (1, 2, 3, 9, 10)  
 Pride R501 (3x) (3, 5, 9, 10)

Renk Seed Co., R.R. #2, Sun Prairie, Wisconsin

Renk NR1 (2x) (15)  
 Renk EX2 (2x) (19, 20)  
 Renk RK44 (2x) (1, 2, 3, 4, 5, 9, 10)  
 Renk R70 (3x) (19, 20)  
 Renk R95 (3x) (11, 12)

Robson Seed Co., Hall, New York

Seneca XR17 (2x) (19, 20)  
 Seneca XX155 (3x) (19, 20)

Taylor-Evans Seed Co., P.O. Box 480, Tullia, Texas

Taylor-Evans Hastymaker (4x) (1, 3, 9, 10)  
 Taylor-Evans Marketmaker (2x) (1, 3, 9, 10)  
 Taylor-Evans Timemaker (4x) (1, 3, 9, 10)

Teweles Seed Co., Milwaukee, Wisconsin

Teweles 201 (21)  
 Teweles 232 (13, 14)

Todd Hybrid Corn Co., Burlington, Indiana

Todd M30 (2x) (2, 5)  
 Todd M55 (2x) (2, 5)

Trojan Seed Co., Windfall, Indiana

Trojan TX68 (3x) (17, 18, 19, 20, 21)  
 Trojan M80 (4x) (17, 18)  
 Trojan TXS85 (2x) (12, 18)  
 Trojan TXS94 (2x) (2, 9, 10, 12)  
 Trojan TXS99 (2x) (9, 10, 12)  
 Trojan TXS102 (2x) (1, 2, 3, 4, 5, 7, 8, 9, 10, 12)  
 Trojan TXS103 (2x) (9, 10, 12)  
 Trojan TXS104 (2x) (2, 9, 10)  
 Trojan TXS105 (2x) (1, 9, 10)  
 Trojan TXS107 (2x) (1, 2, 3, 9, 10)  
 Trojan TXS112 (2x) (1, 2)  
 Trojan TXS113 (2x) (1, 2)

Warwick Seed Co., Ltd. Blenheim, Ontario

Warwick TX60 (3x) (1, 2, 9, 10)  
 Warwick TX71 (3x) (1, 2, 9, 10)  
 Warwick SL209 (2x) (19, 20)  
 Warwick 214 (4x) (12, 19, 20)  
 Warwick 292 (4x) (2, 9, 10, 12)  
 Warwick 405 (4x) (2, 9, 10, 12)  
 Warwick SL416 (2x) (2, 9, 10, 12)  
 Warwick SL510 (Sp.) (2, 9, 10, 12)

Wisconsin 233, Madison, Wis

Wisconsin 233 (3x) (21)  
 Wisconsin 240 (4x) (21)  
 Wisconsin 243 (3x) (21)  
 Wisconsin 253 (3x) (21)  
 Wisconsin 255 (4x) (21)

\*E. J. Funk - Super Crost brand designations have been shortened to Super Crost in the tables.