



Michigan Corn Production

HYBRIDS COMPARED 1973

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 1972 trials produced 28 bushels more per acre than the average of 311 hybrids tested and 42 bushels more than the lowest yielding hybrids tested (Table A, page 4). The respective yields were 156, 128 and 86 for the highest, average and lowest yielding hybrids at the 15 testing locations. The driest hybrids at harvest contained 6% less moisture than the average and 12% less moisture than the wettest hybrids tested. Stalk breakage averaged 24%, 9% and 5% for hybrids with highest, average and lowest amounts of stalk lodging.

ENTRIES

Two groups of entries are included in the trials:

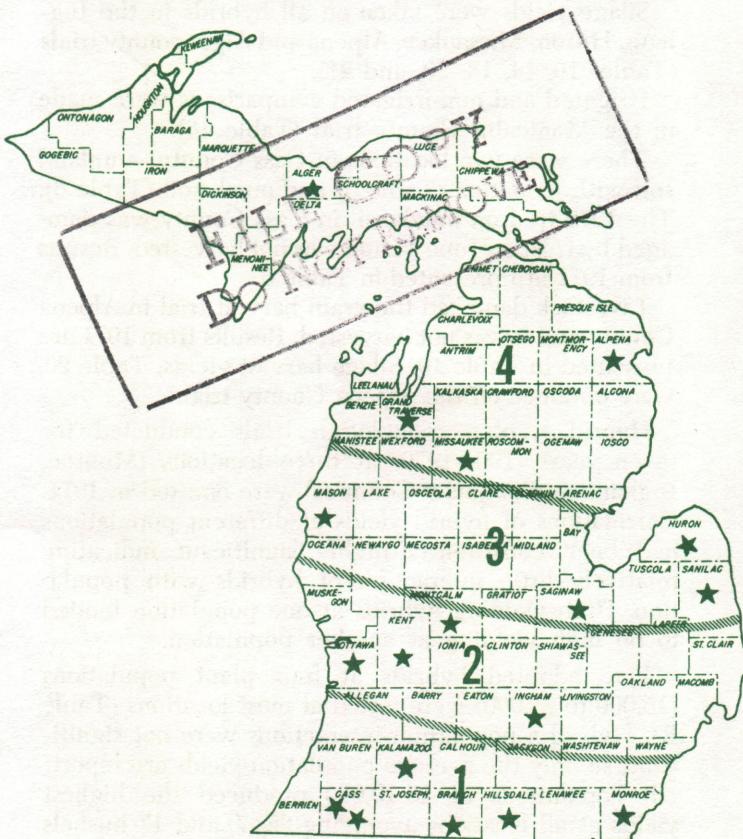
- 1) **Voluntary entries** — all seed companies are invited each year to enter hybrids in the trials. A fee is charged to cover some of the direct expenses.
- 2) **Extension entries** — Some seed companies do not participate with voluntary fee-assessed entries and others do not include some of their 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.

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 1972 trials. 311 hybrids were tested as 1,232 entries



Corn Maturity Zones and Locations (★) of Trials

at 16 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, and 21).

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). The 1972 trial on muck soil in Cass County was damaged by frost on June 11 and was not harvested. Results from 1971 are presented in Table 6.

Livestock damaged the grain harvest trial in Alpena County and it was not harvested. Results from 1971 are presented in Table 19. Silage harvest yields, Table 20, were obtained on the Alpena County trial.

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 22, 7, and 17 bushels

more than populations of 15,400, 23,600 and 28,300 respectively. In general, moisture content averaged 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 1972.

Hybrid x row width (36-, 30-, and 18-inch row spacings) trials conducted for six years at Ingham County were also omitted in 1972. 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 28 and May 22. Wet fields in April and the first half of May delayed planting at some locations. The last half of May was warm and dry. Frost on June 11 caused severe damage to corn on muck soils and to some upland corn. The growing season, June-September, was wetter and cooler than normal. Moisture was adequate at most locations.

Corn matured at later dates than usual due to later planting and the cool wet season. Harvest started late because of delayed maturity and high grain moisture. Killing freezes occurred during the third week of October. Prolonged rains and wet field conditions continued to delay harvest through November and December. Only 21% of the grain corn was harvested by November 4th compared with about 60% normally harvested by that date. On December 9 only 55% was harvested. Grain moisture remained high with very slow "dry down" in the field through the harvest season. Considerable mold developed in late harvested fields and in crib storage. Corn that was immature when killing frost occurred showed high incidence of mold.

Blight occurred more extensively in 1972 than in 1971. Hybrids with "T" cytoplasm were heavily blighted with some yield loss. Hybrids with "N" cytoplasm had considerably less blight and yields were relatively unaffected.

The Michigan Crop Reporting Service estimates the 1972 state average corn yield at 83 bushels per acre (a record high) provided the crop can be harvested without a large harvesting loss. The 1971 state average yield was 68 bushels per acre and the previous high was 79 in 1970. 1,630,000 acres were indicated for grain harvest and about 450,000 acres for silage.

HOW TO USE THIS BULLETIN

One-, two- and three-year averages are presented for all hybrids tested during 1972, 1971 and 1970. 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, P₂O₅ and K₂O 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 moisture 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 1973

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

80-90% of hybrid seed corn for 1973 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.

Hybrids in "T" cytoplasm had considerable blight and some yield reduction in 1972. Hybrids in "N" cytoplasm had much less blight and no apparent yield loss.

"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 $\frac{1}{3}$ - $\frac{1}{2}$ of the plants with some resistance to the "T" race and the other $\frac{2}{3}$ - $\frac{1}{2}$ 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 1973.

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 1973 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 15 locations in 1972.

Location	No. of Hybrids	% Moisture			Bushels per acre			% Stalk lodging		
		Avg.	Highest	Lowest	Avg.	Highest	Lowest	Avg.	Highest	Lowest
Monroe	91	26.9	32.1	22.4	128.8	155.4	91.6	1.5	9.9	0.0
Hillsdale	94	31.4	36.6	24.6	126.8	150.6	92.6	5.0	14.5	0.5
Branch	93	28.1	33.1	22.0	125.6	152.4	89.0	26.1	60.8	12.4
Kalamazoo	66	32.4	37.6	23.3	136.8	157.4	104.0	4.6	14.4	0.0
Cass — Upland Irrigated	64	28.2	32.3	22.8	138.5	164.2	98.0	5.2	20.7	0.0
Kent	52	26.7	30.5	22.0	128.5	158.9	67.6	19.7	54.9	2.9
Ottawa	55	27.7	33.6	22.8	114.5	143.9	85.2	33.8	18.3	50.0
Ingham	94	28.7	33.7	22.0	125.6	152.1	75.0	2.2	8.6	0.0
Sanilac	59	30.1	38.5	22.9	130.9	156.3	86.2	1.7	26.8	0.0
Saginaw	85	27.0	33.2	22.3	144.2	171.9	104.1	4.6	23.0	0.0
Huron	64	28.8	32.5	20.2	117.8	149.5	60.2	5.2	32.8	0.0
Montcalm — Irrigated	60	30.6	35.6	23.9	154.8	203.8	98.5	10.1	29.7	2.2
Montcalm — Not Irrigated	60	—	—	—	134.6	172.8	90.5	6.0	23.8	0.0
Mason	40	29.0	33.5	23.1	99.1	119.9	70.5	2.9	9.5	0.0
Grand Traverse	33	29.4	39.4	24.5	106.2	123.0	75.1	2.4	10.7	0.0
Average	—	28.9	34.4	22.8	127.5	155.5	85.9	8.7	23.9	4.5

Table B. Average yield, % moisture, and % stalk lodging at four plant populations for 14 locations in 1972.

Location	Bushels per acre				% Moisture				% Stalk lodging			
	15,400	18,800	23,600	28,300	15,400	18,800	23,600	28,300	15,400	18,800	23,600	28,300
Monroe	130.0	145.9	140.5	137.2	27.3	27.2	27.5	27.8	0.6	0.5	1.5	1.1
Hillsdale	125.4	146.1	143.2	133.8	30.9	31.3	31.2	31.4	3.5	4.2	5.8	7.7
Branch	127.1	144.6	139.0	129.8	28.0	28.4	28.4	29.5	10.1	11.4	20.0	26.5
Kalamazoo	120.4	146.2	123.8	101.4	29.4	29.2	29.9	31.4	3.7	2.8	3.4	2.8
Cass — Irrigated	133.9	149.7	149.1	139.1	28.1	28.3	28.3	28.6	7.7	7.7	12.1	17.4
Kent	128.7	146.7	135.9	130.6	27.9	28.3	28.3	28.4	4.9	5.8	10.0	16.2
Ingham	123.5	145.3	138.6	138.7	28.0	28.2	28.4	29.0	0.2	2.1	2.2	4.6
Sanilac	129.9	151.1	143.1	139.5	28.6	29.0	29.7	30.6	0.6	1.5	3.9	7.4
Saginaw	140.3	162.7	153.9	147.5	27.5	28.1	28.1	28.5	0.7	0.3	3.5	4.5
Huron	116.0	150.1	136.6	118.0	27.3	27.8	28.6	29.4	1.4	1.6	4.2	8.8
Montcalm — Irrigated	151.9	186.5	191.2	161.2	28.7	29.0	29.1	29.7	10.3	12.3	18.1	23.1
Montcalm — Not Irrigated	132.4	158.8	149.3	143.9	28.4	28.6	28.9	29.4	7.6	9.1	16.2	19.8
Mason	92.1	111.8	103.8	98.8	30.0	30.3	30.9	30.8	0.9	2.0	4.0	6.2
Grand Traverse	101.3	118.1	116.0	106.7	29.8	30.2	30.3	30.5	1.8	1.9	3.8	5.2
Average	125.2	147.4	140.3	130.4	28.6	28.9	29.1	29.6	3.7	4.6	7.8	10.8

TO AVOID MOLDY CORN IN 1973

The following recommendations will help avoid a moldy corn problem in 1973:

1. Plant early.
2. Plant early to medium-early maturing hybrids.
3. Harvest early — during October. Weather prob-

lems and harvest losses increase with later harvests.

4. Plan for adequate artificial drying. Drying in the field and in the crib is slow and undependable in Michigan. Ready access to drying facilities will permit more timely harvest with less harvest loss and more corn profits.

**Table 1. SOUTHERN MICHIGAN (Zone 1) MONROE COUNTY TRIAL
One, Two, Three Year Averages — 1972, 1971, 1970**

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging		
	2 3 1972 Yrs Yrs			2 3 1972 Yrs Yrs			2 3 1972 Yrs Yrs			2 3 1972 Yrs Yrs		
	1972	Yrs	Yrs									
Michigan 275-2X (2X)	22.4	19	19	108.0	106	109	0.0	0	5	1.8		
Michigan 280 (4X)	22.8	20	19	115.8	108	114	4.5	4	5	7.5		
Super Crost 1782 (2X)	23.5	—	—	117.0	—	—	0.6	—	—	0.6		
Acco DC393 (4X)	23.6	22	—	91.6	104	—	7.5	6	—	0.6		
Michigan 396-3X (3X)	23.9	21	20	138.9	124	136	0.6	1	2	2.1		
Michigan 333-3X (3X)	24.0	—	—	132.0	—	—	1.8	—	—	0.8		
Gutwein 10A (2X)	24.1	21	—	106.4	112	—	0.6	1	—	1.7		
Michigan 400 (4X)	24.2	21	20	113.8	108	114	5.4	3	7	1.8		
Super Crost 1712 (2X)	24.7	—	—	121.4	—	—	0.6	—	—	1.7		
Taylor Evans Hastymaker (4X)	24.8	22	—	92.6	95	—	7.3	5	—	4.6		
Northrup King PX556 (3X)	24.8	—	—	112.7	—	—	3.7	—	—	1.1		
Adler 23X (2X)	24.9	—	—	132.2	—	—	1.1	—	—	2.2		
Blaney BX-AA (2X)	24.9	22	—	133.3	124	—	0.5	0	—	1.6		
Gutwein 70A (2X)	24.9	—	—	140.4	—	—	1.1	—	—	3.2		
Super Crost S19 (2X)	24.9	22	—	127.7	120	—	0.0	0	—	0.0		
*Michigan 410-2X (2X)	24.9	22	—	148.5	136	—	0.6	0	—	3.0		
*Gutwein 40 (2X)	25.0	22	—	144.3	129	—	1.1	2	—	0.5		
Taylor Evans Suremaker (2X)	25.3	—	—	104.9	—	—	0.0	—	—	1.1		
OYO 220 (2X)	25.3	—	—	129.8	—	—	0.0	—	—	0.0		
Wolverine W170 (2X)	25.3	22	21	117.8	110	117	1.1	1	3	8.6		
*Bayless SX1795 (2X)	25.3	—	—	144.5	—	—	2.7	—	—	4.8		
*Northrup King PX545 (3X)	25.4	—	—	154.0	—	—	0.0	—	—	1.1		
Migro M-1101 (2X)	25.5	—	—	137.1	—	—	0.0	—	—	14.8		
Migro M-1212 (2X)	25.5	—	—	110.8	—	—	0.5	—	—	7.4		
Taylor Evans Timemaker (4X)	25.6	23	—	110.3	109	—	0.5	1	—	2.1		
Acco DC441 (4X)	25.6	—	—	119.9	—	—	1.1	—	—	2.2		
Wolverine W175 (2X)	25.7	24	22	109.3	115	115	6.9	4	7	0.6		
Wolverine W172 (2X)	25.7	—	—	139.0	—	—	1.1	—	—	3.2		
Acco UC3300 (2X)	25.8	23	22	100.8	118	130	0.0	0	4	1.1		
Super Crost S28 (2X)	25.8	23	—	128.4	120	—	9.9	6	—	8.3		
Anderson A-100 (4X)	25.9	—	—	117.2	—	—	3.8	—	—	2.7		
Anderson 3W-100 (3X)	25.9	—	—	122.7	—	—	0.0	—	—	8.3		
*Michigan 572-3X (3X)	26.1	23	22	152.0	134	146	4.0	2	2	4.6		
Migro M-1102 (2X)	26.1	—	—	104.0	—	—	1.1	—	—	9.6		
Funk Bros. G4360 (3X)	26.1	—	—	116.2	—	—	1.1	—	—	6.3		
Blaney's B-55 (3X)	26.2	23	—	101.3	104	—	1.1	1	—	2.7		
Pioneer 3773 (2X)	26.3	23	22	121.0	115	126	1.1	1	3	1.1		
*Super Crost S63 (2X)	26.3	24	—	141.5	128	—	2.2	1	—	3.3		
Pioneer 3729 (3X)	26.5	—	—	126.2	—	—	0.0	—	—	2.9		
Trojan TXS102 (2X)	26.5	23	22	130.3	128	139	4.9	2	4	1.1		
Trojan TXS105 (2X)	26.5	23	22	125.6	121	133	1.7	1	3	0.0		
Acco UC4400 (2X)	26.7	24	23	91.1	108	114	5.0	4	6	3.9		
*Michigan 500-2X (2X)	26.7	24	22	141.9	139	141	2.3	1	5	1.1		
Super Crost S25 (2X)	27.1	23	—	140.4	127	—	1.0	1	—	1.6		
DeKalb XL45A (2X)	27.1	25	—	135.5	133	—	1.1	1	—	0.5		
*Super Crost S29 (2X)	27.1	—	—	142.0	—	—	1.6	—	—	0.5		
*Michigan 511-3X (3X)	27.1	24	23	144.7	135	141	1.7	1	4	5.6		
Renk RK44 (2X)	27.1	23	22	134.6	124	132	0.5	1	2	1.1		
Wolverine W176 (2X)	27.2	23	22	131.2	124	131	1.1	1	6	5.4		
*Blaney B701 (2X)	27.2	—	—	142.5	—	—	0.6	—	—	2.2		
*Super Crost 4242 (2X)	27.3	25	—	145.8	138	—	1.6	1	—	10.9		
DeKalb XL44 (2X)	27.3	25	—	125.6	132	—	2.2	1	—	1.1		
Trojan TXS107 (2X)	27.3	24	22	127.7	128	128	0.0	0	2	5.5		
Northrup King PX47E (2X)	27.3	—	—	123.5	—	—	0.5	—	—	4.2		
Migro M5040 (4X)	27.3	—	—	134.5	—	—	1.6	—	—	7.0		

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging		
	2 3 1972 Yrs Yrs			2 3 1972 Yrs Yrs			2 3 1972 Yrs Yrs			2 3 1972 Yrs Yrs		
	1972	Yrs	Yrs									
OYO 435A (4X)	27.4	—	—	130.7	—	—	0.6	—	—	7.9		
Blaney B-AA (2X)	27.5	24	23	127.0	126	133	1.1	1	4	0.0		
Gutwein 125 (Sp.)	27.6	—	—	122.9	—	—	4.4	—	—	1.7		
Pride R601 (3X)	27.6	—	—	129.4	—	—	0.0	—	—	1.1		
Adler 413 (3X)	27.6	—	—	133.3	—	—	0.0	—	—	0.6		
*Michigan 560-2X (2X)	27.6	24	—	144.2	136	—	0.0	0	—	6.0		
Super Crost S41 (2X)	27.7	25	—	124.6	123	—	1.7	1	—	0.0		
*Northrup King PX610 (3X)	27.9	—	—	150.5	—	—	0.6	—	—	0.0		
*Trojan TXS111 (2X)	27.9	—	—	154.1	—	—	0.0	—	—	0.0		
Acco UC4561 (2X)	28.0	—	—	134.9	—	—	2.2	—	—	0.6		
Anderson AX-5 (2X)	28.0	—	—	136.4	—	—	2.2	—	—	3.8		
*Gutwein 69A (2X)	28.0	26	—	147.4	133	—	0.0	0	—	11.4		
Garno S96 (2X)	28.0	24	22	131.1	123	130	0.6	0	6	0.6		
*Gutwein 27 (2X)	28.0	—	—	155.4	—	—	0.5	—	—	0.0		
Acco UC3201 (2X)	28.1	—	—	125.0	—	—	1.7	—	—	0.0		
Blaney B773 (3X)	28.1	—	—	138.9	—	—	1.6	—	—	1.1		
*Pioneer 3516 (2X)	28.3	26	—	148.0	131	—	0.5	0	—	8.2		
Migro M-1010 (2X)	28.3	25	23	123.7	125	134	0.5	2	3	4.8		
Acco U348 (3X)	28.3	—	—	111.2	—	—	1.7	—	—	2.9		
*Migro M-3020 (4X)	28.4	—	—	151.4	—	—	1.1	—	—	0.0		
Acco UC3600 (2X)	28.4	—	—	104.3	—	—	3.8	—	—	1.6		
OYO 333 (2X)	28.5	—	—	140.6	—	—	1.6	—	—	2.2		
DeKalb XL347 (3X)	28.5	26	—	118.4	126	—	5.0	3	—	0.0		
Acco UC3001 (2X)	28.6	25	—	126.2	126	—	1.0	1	—	0.0		
Cowbell SX205 (2X)	28.7	25	—	121.6	123	—	0.0	1	—	2.2		
Super Crost 2772 (2X)	28.7	25	—	138.6	129	—	3.3	2	—	1.1		
Funk Bros. G4444 (2X)	28.8	25	23	131.0	127	137	0.0	0	2	0.0		
Pride R728 (3X)	28.9	—	—	139.3	—	—	0.6	—	—	3.9		
Taylor Evans Marketmaker (2X)	29.0	25	—	139.8	131	—	1.7	1	—	0.0		
Pride R450 (2X)	29.0	26	23	134.8	134	142	1.6	1	3	0.5		
*Migro M-0501 (2X)	29.0	27	—	154.1	137	—	0.0	0	—	0.0		
Funk Bros. G4445 (2X)	29.2	—	—	130.4	—	—	0.5	—	—	3.8		
Super Crost S27 (2X)	29.7	25	24	124.1	124	130	0.5	0	6	3.7		
*Pioneer 3518 (Sp.)	29.8	26	—	144.3	142	—	0.0	0	—	1.6		
*Trojan TXS109 (2X)	31.3	—	—	150.8	—	—	0.5	—	—	0.0		
*Trojan TXS113 (2X)	32.1	28	—	154.6	142	—	0.0	0	—	4.8		

Table 2. SOUTHERN MICHIGAN (Zone 1) HILLSDALE COUNTY TRIAL
One, Two, Three Year Averages — 1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture		Bushels per acre			% Stalk lodging		% Root lodging		
	2 3		1972	Yrs	1972	Yrs	1972	Yrs	1972	
	1972	Yrs	1972	Yrs	1972	Yrs	1972	Yrs	1972	
Michigan 275-2X (2X)	24.6	22	21	104.8	99	102	14.5	14	12	1.9
Michigan 280 (4X)	24.6	22	21	111.8	99	105	11.6	9	8	2.6
Michigan 333-3X (3X)	24.7	—	—	117.4	—	—	6.9	—	—	0.0
Todd 330 (3X)	25.8	—	—	124.0	—	—	12.2	—	—	3.4
Michigan 400 (4X)	26.0	23	22	115.6	104	111	7.5	4	4	1.9
Michigan 396-3X (3X)	26.0	23	22	132.4	124	126	4.8	2	2	3.6
Pioneer 3784 (2X)	26.0	23	—	134.8	113	—	3.8	3	—	0.0
Blaney B302 (2X)	26.3	—	—	122.1	—	—	3.3	—	—	3.4
Funk Bros. G4343 (2X)	26.3	—	—	129.2	—	—	7.1	—	—	2.3
Warwick SL501 (Sp.)	26.3	—	—	129.8	—	—	3.1	—	—	4.0
Super Crost S19 (2X)	26.8	25	—	133.5	119	—	9.3	5	—	0.0
Warwick 405 (4X)	27.0	25	—	107.6	96	—	6.6	6	—	0.0
Michigan 410-2X (2X)	27.1	23	—	135.6	129	—	5.5	4	—	3.0
Todd M20 (2X)	27.1	—	—	106.0	—	—	6.4	—	—	8.8
Warwick TX60 (Sp.)	27.4	24	—	103.1	98	—	7.9	5	—	2.0
Northrup King PX556 (3X)	27.6	—	—	92.6	—	—	8.0	—	—	0.6
*Michigan 572-3X (3X)	28.0	25	—	142.8	129	—	5.1	3	—	0.0
Migro M1101 (2X)	28.8	—	—	133.1	—	—	12.3	—	—	4.0
*Super Crost S63 (2X)	29.0	27	—	144.5	139	—	5.6	3	—	0.0
Asgrow RX53 (2X)	29.1	26	—	139.8	130	—	4.1	2	—	2.3
Blaney B701 (2X)	29.4	—	—	126.9	—	—	7.2	—	—	1.1
Pioneer 3729 (3X)	29.5	—	—	130.3	—	—	2.2	—	—	0.0
Michigan 511-3X (3X)	29.6	26	25	129.8	137	137	3.9	3	3	0.0
Blaney B-55A (3X)	29.6	—	—	110.6	—	—	8.1	—	—	0.0
Blaney B-501A (2X)	29.7	—	—	131.2	—	—	4.0	—	—	2.3
Pioneer 3773 (2X)	29.7	26	25	135.5	127	127	7.3	5	3	2.9
Bayless SX434 (2X)	29.7	25	24	139.2	126	128	3.3	2	2	0.0
Pride R407 (2X)	30.0	—	—	137.8	—	—	6.0	—	—	1.6
*Blaney B-AA (2X)	30.1	27	25	140.4	134	123	6.9	4	3	2.3
Michigan 500-2X (2X)	30.1	27	25	134.8	135	132	4.1	2	2	0.0
Hulting X537 (2X)	30.5	27	25	122.5	110	111	2.7	2	2	0.0
Warwick SL416 (2X)	30.5	27	—	100.9	91	—	8.4	4	—	0.0
Hulting X534 (2X)	30.6	—	—	137.8	—	—	2.3	—	—	0.0
Cowbell SX112 (2X)	30.6	27	26	109.0	107	111	6.9	6	4	4.6
Trojan TXS107 (2X)	30.7	29	27	135.0	116	118	1.7	4	4	2.2
*Super Crost S27 (2X)	31.0	27	25	146.1	135	131	3.2	2	1	0.0
Adler 23X (2X)	31.0	—	—	129.7	—	—	6.1	—	—	1.7
OYO 435A (4X)	31.1	—	—	127.2	—	—	5.2	—	—	0.0
Cowbell SX114 (2X)	31.2	—	—	135.8	—	—	4.6	—	—	1.7
*Trojan TXS102 (2X)	31.5	27	26	145.1	126	125	2.8	1	1	1.1
Michigan 560-2X (2X)	31.5	27	—	138.1	128	—	2.3	3	—	3.4
*Northrup King PX50A (2X)	31.6	27	—	141.1	129	—	1.2	1	—	0.0
Blaney B601 (2X)	31.6	27	25	113.0	113	116	5.2	4	3	0.0
Migro M1102 (2X)	31.7	—	—	102.1	—	—	10.1	—	—	0.0
Acco UC4561 (2X)	31.8	—	—	137.6	—	—	6.0	—	—	1.6
Bayless XI795 (2X)	31.8	—	—	124.2	—	—	4.3	—	—	3.3
DeKalb XL22 (2X)	32.0	27	—	138.3	128	—	2.2	3	—	1.7
Todd M55 (2X)	32.3	27	26	117.4	108	105	2.2	2	2	0.0
Asgrow RX58 (2X)	32.4	27	—	136.3	129	—	5.2	3	—	1.7
Northrup King PX610 (3X)	32.5	29	27	128.4	118	122	4.6	3	2	0.0
Northrup King PX545 (3X)	32.7	—	—	138.9	—	—	4.5	—	—	0.0
*Super Crost S25 (2X)	32.8	27	—	145.8	120	—	4.4	6	—	1.6
Todd 130A (3X)	32.8	—	—	104.8	—	—	13.1	—	—	1.1
Cowbell SX205 (2X)	32.8	28	—	133.3	121	—	3.4	4	—	0.0
DeKalb XL45A (2X)	32.8	29	—	115.9	115	—	4.6	3	—	1.1
Trojan TXS111 (2X)	32.8	—	—	131.5	—	—	1.1	—	—	0.0
Super Crost S28 (2X)	32.8	29	—	122.4	107	—	1.6	1	—	5.5
Migro M3020 (4X)	33.2	—	—	138.2	—	—	2.3	—	—	0.0
Super Crost 4242 (2X)	33.3	30	—	135.7	127	—	2.2	2	—	2.8
Super Crost 41 (2X)	33.3	29	—	113.6	98	—	4.6	3	—	0.0
Bayless XI485 (3X)	33.3	28	26	116.9	119	126	1.7	3	3	1.7
Funk Bros. G4445 (2X)	33.5	29	—	118.8	131	—	7.0	4	—	0.0
OYO 333 (2X)	33.5	—	—	133.7	—	—	2.8	—	—	0.0
Funk Bros. G4360 (2X)	33.5	—	—	125.5	—	—	6.2	—	—	0.0
Todd M30 (2X)	33.5	28	26	118.8	120	117	4.0	3	3	0.0
Trojan TXS104 (2X)	33.5	29	27	117.6	116	118	4.0	4	4	0.6
Wyckoff 2414 SX (2X)	33.8	—	—	135.9	—	—	3.4	—	—	0.0
Funk Bros. G4444 (2X)	33.9	28	26	137.5	126	127	4.0	2	2	2.8
Super Crost S65 (2X)	34.0	30	—	135.7	128	—	3.8	2	—	1.1
Todd M55A (2X)	34.0	—	—	100.4	—	—	3.4	—	—	0.0
OYO 220 (2X)	34.0	—	—	134.3	—	—	6.6	—	—	0.0
DeKalb XL44 (2X)	34.0	30	—	108.6	111	—	3.6	3	—	0.0
Pioneer 3516 (2X)	34.0	31	—	125.2	121	—	0.5	1	—	3.3
Migro M5040 (4X)	34.1	30	—	132.0	124	—	5.6	3	—	1.1
*Hulting X770 (2X)	34.1	30	28	143.1	131	132	6.1	5	4	0.0

Hybrid (Brand — Variety)	% Moisture		Bushels per acre			% Stalk lodging		% Root lodging		
	2 3		1972	Yrs	1972	Yrs	1972	Yrs	1972	
	1972	Yrs	1972	Yrs	1972	Yrs	1972	Yrs	1972	
Pioneer 3518 (Sp.)	34.1	30	—	135.2	130	—	5.3	3	—	0.0
Lowe M333 (2X)	34.1	29	—	121.3	114	—	2.3	1	—	2.3
Muncy Chief SX440 (2X)	34.3	—	—	137.3	—	—	1.1	—	—	2.2
Migro M1010 (2X)	34.3	29	27	130.6	128	122	2.8	1	2	0.6
Lowe SX2TP (2X)	34.3	29	27	134.1	120	120	3.4	2	3	1.7
Acco U348 (3X)	34.4	—	—	119.8	—	—	5.1	—	—	0.0
Acco UC3301 (2X)	34.5	30	—	136.4	135	—	10.3	9	—	1.7
Blaney B773 (3X)	34.9	—	—	103.0	—	—	7.3	—	—	4.5
*Trojan TXS113 (2X)	35.0	30	—	148.9	135	—	5.1	3	—	2.3
Hulting X9761 (3X)	35.1	32	—	111.3	110	—	1.1	1	—	3.9
Hulting X9770 (3X)	35.3	32	—	127.8	116	—	1.7	1	—	2.8
Northrup King PX47E (2X)	35.4	—	—	120.4	—	—	7.7	—	—	2.2
*Super Crost 2772 (2X)	35.4	29	—	150.6	134	—	2.8	1	—	2.8
Muncy Chief SX550 (2X)	35.6	—	—	99.2	—	—	5.0	—	—	0.0
Pride R450 (2X)	35.6	29	27	128.3	121	125	2.3	1	2	0.6
Adler 413 (3X)	35.6	—	—	110.5	—	—	5.2	—	—	0.0
*Migro M-0501 (2X)	35.8	30	—	146.9	133	—	2.2	1	—	0.0
Trojan TXS109 (2X)	36.2	—	—	119.5	—	—	0.6	—	—	1.1
Muncy Chief SX662 (2X)	36.6	—	—	136.1	—	—	4.7	—	—	1.2
Average	31.4	27	25	126.8	121	121	5.0	3	3	1.4
Range	24.6	22	21	92.6	91	102	0.5	1	1	0.0
	to	to	to	to	to	to	to	to	to	to
	36.6	32	28	150.6	140	142	14.5	14	12	8.8
Least significant difference	1.0	0.6	0.5	13.1	6	4				

*Significantly better than average yield in 1972.

Planted May 23

Harvested Nov. 11-29

Soil type Griffin sandy

Previous crop Corn

Population 19,800

Rows 30"

Fertilizer 116-65-185

Soil test: pH 5.9

P 60 (high)

K 170 (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 —

1972, 1971, 1970

TABLE 3. (Continued)

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging			
	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs		
Wyckoff W5X (4X)	26.3	—	92.9	—	19.6	—	6.0			
*Michigan 572-3X (3X)	26.4	24	23	143.2	156	151	27.3	16	11	0.6
Hulting X3219 (3X)	26.5	—	92.7	—	26.6	—	1.8			
Gutwein 125 (Sp.)	26.6	24	—	137.5	149	—	23.3	13	—	2.3
*Bayless SX1795 (2X)	26.6	25	—	146.8	165	—	22.2	13	—	1.2
Northrup King PX529 (3X)	26.7	—	—	129.4	—	21.2	—	—	0.0	
*Hulting X534 (2X)	26.7	—	—	142.3	—	26.7	—	—	0.0	
Hulting X537 (2X)	26.7	25	24	132.6	139	127	13.7	7	5	1.1
Northrup King PX545 (3X)	26.8	—	—	136.8	—	26.0	—	—	4.5	
Wyckoff W10X (4X)	26.8	—	—	132.7	—	26.9	—	—	1.6	
*Migro M1101 (2X)	26.8	—	—	139.5	—	31.1	—	—	3.4	
*Michigan 500-2X (2X)	26.9	25	24	140.9	152	142	29.3	16	12	3.6
Pioneer 3729 (3X)	26.9	—	—	126.2	—	15.7	—	—	1.7	
*Gutwein 27 (2X)	27.0	—	—	148.7	—	28.8	—	—	1.8	
Adler 23X (2X)	27.1	—	—	123.3	—	17.9	—	—	1.2	
Pioneer 3773 (2X)	27.1	—	—	119.1	—	35.6	—	—	2.4	
Taylor Evans Timemaker (4X)	27.2	26	—	109.5	120	—	29.4	16	—	5.6
*Michigan 511-3X (3X)	27.2	26	24	142.7	157	148	25.3	14	12	3.5
*Super Crost S25 (2X)	27.2	24	—	147.3	157	—	24.0	13	—	2.2
Wyckoff 2414SX (2X)	27.2	—	—	134.3	—	16.9	—	—	1.7	
Lowe SX2TP (2X)	27.3	26	24	136.3	141	132	23.2	14	11	0.0
*Super Crost S63 (2X)	27.4	26	—	150.6	162	—	21.7	13	—	0.0
*Michigan 560-2X (2X)	27.5	26	—	140.9	160	—	22.4	12	—	1.1
Northrup King PX47E (2X)	27.5	—	—	121.6	—	21.1	—	—	0.6	
Migro M-1102 (2X)	27.7	—	—	98.1	—	32.4	—	—	6.7	
*Hulting X770 (2X)	27.7	26	24	145.7	157	147	25.0	14	11	2.3
Prairie Stream SX1B (2X)	27.7	—	—	133.9	—	33.1	—	—	0.0	
Gutwein 69A (2X)	27.8	26	—	135.2	155	—	23.2	12	—	1.2
*Renk RK44 (2X)	27.9	25	23	143.9	148	142	20.1	13	10	1.1
Hulting X2772 (3X)	27.9	26	—	100.1	114	—	31.4	7	—	4.7
DeKalb XL45A (2X)	27.9	26	—	125.4	143	—	26.6	14	—	7.1
Migro M-5040 (4X)	27.9	—	—	128.3	—	25.3	—	—	1.1	
Bayless SX434 (2X)	28.0	24	23	111.4	133	132	25.6	15	12	1.1
Migro M1010 (2X)	28.0	25	24	109.6	137	134	12.2	7	6	1.8
Pride R601 (3X)	28.0	—	—	111.7	—	27.0	—	—	2.3	
Cowbell SX209 (2X)	28.1	25	—	126.5	137	—	31.0	19	—	2.9
Hulting X539 (2X)	28.1	27	—	115.0	139	—	43.8	24	—	2.8
Bayless SX3771 (2X)	28.2	—	—	132.5	—	37.4	—	—	5.7	
*P.A.G. SX69 (2X)	28.3	—	—	143.6	—	17.3	—	—	0.0	
Parker 360 (2X)	28.3	26	—	117.1	135	—	18.1	11	—	1.7
Trojan TXS102 (2X)	28.4	26	—	130.5	148	—	17.1	10	—	1.1
Taylor Evans Marketmaker (2X)	28.4	26	—	119.1	129	—	18.5	11	—	2.2
*Funk Bros. G4444 (2X)	28.4	26	24	140.6	159	150	18.6	12	8	0.6
Super Crost S27 (2X)	28.5	—	—	124.4	—	17.2	—	—	0.0	
Pride R407 (2X)	28.7	26	24	132.5	148	138	31.0	16	12	1.7
Moews SM229 (2X)	28.7	26	—	122.8	136	—	23.0	12	—	5.1
*Asgrow RX58 (2X)	28.7	—	—	144.0	—	24.2	—	—	0.0	
*Migro M-3020 (4X)	28.8	—	—	143.9	—	23.1	—	—	1.7	
Trojan TXS107 (2X)	28.8	27	—	133.7	156	—	22.4	12	—	2.2
Acco UC3201 (2X)	29.0	—	—	126.8	—	15.6	—	—	2.2	
Cowbell SX114 (2X)	29.0	—	—	138.7	—	22.7	—	—	5.2	
*Lowe TWX1 (3X)	29.0	26	24	138.8	139	127	23.5	14	10	1.7
Super Crost 4242 (2X)	29.2	—	—	134.0	—	32.0	—	—	1.1	
Pride 568 (4X)	29.2	—	—	123.1	—	32.4	—	—	1.7	
Asgrow RX53 (2X)	29.3	—	—	118.7	—	37.9	—	—	2.7	
Bayless SX485 (3X)	29.4	26	24	128.4	143	140	30.1	17	14	2.3
*Trojan TXS111 (2X)	29.6	—	—	152.4	—	12.4	—	—	0.0	
Cowbell SX205 (2X)	29.7	—	—	122.9	—	23.0	—	—	0.6	
Parker 600 (2X)	29.8	—	—	108.7	—	17.2	—	—	0.6	
Acco U369 (3X)	29.8	28	—	107.6	136	—	33.7	17	—	11.4
*Acco U378 (3X)	30.0	29	—	147.4	159	—	25.6	14	—	4.1
Pride R728 (3X)	30.2	—	—	120.7	—	33.3	—	—	1.7	
Hulting X9861 (3X)	30.3	—	—	123.9	—	26.0	—	—	2.9	
Northrup King PX610 (3X)	30.3	—	—	107.3	—	39.1	—	—	3.5	
Adler 413 (3X)	30.7	—	—	123.3	—	29.0	—	—	3.3	
Bayless 3X415 (3X)	30.7	28	—	114.6	118	—	27.4	14	—	3.4
*Hulting X9770 (3X)	30.7	29	26	140.8	155	149	33.3	18	13	6.8
DeKalb XL44 (2X)	30.8	—	—	120.2	—	30.8	—	—	5.6	
*Migro M-0501 (2X)	31.1	29	—	149.3	164	—	16.2	8	—	0.5
Funk Bros. G4445 (2X)	31.3	—	—	125.2	—	21.5	—	—	5.6	
Acco U348 (3X)	31.6	—	—	114.9	—	26.7	—	—	5.0	
Super Crost S65 (2X)	31.8	29	—	100.4	134	—	29.3	15	—	3.4
Pride R450 (2X)	32.0	28	26	122.8	140	130	17.3	11	7	3.5
Hulting X9761 (3X)	32.7	30	27	105.7	145	138	21.9	12	9	1.1
Wyckoff 3537SX (2X)	32.7	—	—	119.9	—	17.2	—	—	3.4	

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging			
	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs		
Pioneer 3518 (Sp.)	32.9	30	—	136.4	153	—	25.7	13	—	0.0
Super Crost S28 (2X)	33.0	28	—	133.8	158	—	39.3	21	—	3.0
*P.A.G. SX7 (2X)	33.1	29	26	141.4	159	143	33.7	18	13	2.2
Average	28.1	26	24	125.6	142	135	26.1	16	11	2.8
Range	22.0	20	19	89.0	86	98	12.4	7	5	0.0
Least significant difference	0.8	0.5	0.5	12.9	7	4				

*Significantly better than average yield in 1972.

	1972	1971	1970
Planted	May 22	April 30	May 11
Harvested	Nov. 30	Oct. 14	Oct. 28
Soil type	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
Previous crop	Corn	Corn	Corn
Population	20,000	19,800	19,300
Rows	30"	30"	30"
Fertilizer	128-55-60	170-101-60	137-46-60
Soil test: pH	6.6	6.7	6.5
P	151 (very high)	154 (very high)	100 (very high)
K	384 (very high)	342 (very high)	344 (very high)
Farm Cooperator: George Matthews, Union City			
County Extension Director: Paul Thompson, Coldwater			

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

One, Two, Three Year Averages —

1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging			
	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs		
Michigan 275-2X (2X)	23.3	23	22	118.6	104	102	10.3	8	9	10.3
Michigan 280 (4X)	23.9	23	22	128.3	103	101	8.2	8	7	15.0
Funk Bros. G4263 (3X)	23.9	—	—	127.5	—	—	8.6	—	—	15.5
Michigan 333-3X (3X)	24.2	—	—	138.4	—	—	6.4	—	—	5.8
Michigan 400 (4X)	26.3	26	24	119.7	111	111	6.5	4	4	5.1
*Michigan 396-3X (3X)	26.6	26	24	157.4	135	133	2.0	4	3	3.9
Pioneer 3784 (2X)	27.4	27	—	145.8	118	—	2.4	4	—	6.7
*Moews SM220 (2X)	27.6	—	—	155.9	—	—	0.6	—	—	1.7
*Michigan 410-2X (2X)	27.6	27	—	154.0	137	—	3.0	2	—	7.7
Cowbell SX102 (2X)	27.8	26	—	117.2	103	—	4.2	6	—	3.6
Cowbell SX002 (2X)	27.9	27	—	115.3	109	—	3.4	2	—	2.8
Funk Bros. G4252 (3X)	28.0	26	25	140.2	123	115	3.6	7	5	2.4
*Moews 2222 (2X)	29.1	—	—	153.3	—	—	6.3	—	—	9.8
Pioneer 3773 (2X)	29.5	29	27	121.8	113	120	14.4	12</td		

TABLE 4. (Continued)

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging		1972	
	2	3	1972	Yrs	2	3	1972	Yrs		
Northrup King PX529 (3X)	33.4	—	126.8	—	10.3	—	—	14.1		
Michigan 560-2X (2X)	33.6	33	144.2	130	3.5	3	—	5.9		
Cowbell SX205 (2X)	33.6	31	141.5	124	1.7	2	—	0.0		
Bayless SX4395 (2X)	33.8	32	133.6	118	3.0	3	—	5.9		
Adler 23X (2X)	33.8	—	140.3	—	0.6	—	—	5.6		
Migro M-1010 (2X)	34.0	32	29	140.8	124	123	2.7	3	4	2.7
Acco UC3300 (2X)	34.1	32	29	111.1	106	117	4.9	5	5	6.7
Bayless SX1795 (2X)	34.1	—	130.6	—	0.0	—	—	2.2		
Michigan 511-3X (3X)	34.2	34	30	146.4	133	134	2.6	2	2	6.2
Northrup King PX47E (2X)	34.4	—	127.5	—	2.5	—	—	6.8		
Bayless 3X485 (3X)	34.4	—	132.7	—	7.6	—	—	7.6		
*Cowbell SX114 (2X)	34.6	—	153.1	—	2.4	—	—	10.6		
Adler 413 (3X)	34.9	—	139.7	—	1.7	—	—	2.8		
Super Crost S28 (2X)	35.1	34	—	142.8	121	—	1.8	1	—	4.1
Wyckoff 2414SX (2X)	35.2	—	138.5	—	1.1	—	—	9.0		
Trojan TXS102 (2X)	35.2	33	—	144.4	121	—	2.3	3	—	6.3
Super Crost S29 (2X)	35.5	—	128.4	—	5.5	—	—	5.0		
Northrup King PX610 (3X)	35.7	—	147.9	—	5.5	—	—	3.9		
Acco UC3201 (2X)	35.9	—	138.8	—	1.1	—	—	2.2		
DeKalb XL45A (2X)	36.1	35	—	125.8	116	—	12.8	10	—	6.9
Northrup King PX50A (2X)	36.5	—	135.9	—	4.1	—	—	4.1		
Super Crost S63 (2X)	36.5	35	—	139.7	134	—	1.7	2	—	2.8
Super Crost 4242 (2X)	36.5	—	149.2	—	8.7	—	—	14.1		
Super Crost S27 (2X)	36.6	—	143.8	—	5.6	—	—	11.8		
Migro M-0501 (2X)	37.0	35	—	148.7	130	—	1.1	1	—	3.3
Acco UC3600 (2X)	37.0	—	109.1	—	4.7	—	—	10.5		
Teweles SXT26 (2X)	37.1	—	130.4	—	1.1	—	—	15.2		
Acco U348 (3X)	37.1	—	131.7	—	10.2	—	—	15.6		
*Migro M3020 (4X)	37.1	—	153.0	—	6.8	—	—	7.1		
Asgrow RX58 (2X)	37.5	34	—	129.5	128	—	3.5	5	—	3.5
Cowbell 3X314 (3X)	37.6	—	131.1	—	4.0	—	—	1.7		
Average	32.4	30	27	136.8	122	122	4.6	4	5	7.4
Range	23.3	23	22	104.0	103	101	0.0	1	2	0.0
	to	to	to	to	to	to	to	to	to	
	37.6	35	30	157.4	137	142	14.4	12	10	17.0
Least significant difference	1.1	.7	.5	13.1	6	5				

*Significantly better than average yield in 1972.

	1972	1971	1970
Planted	May 22	May 12	May 20
Harvested	Oct. 27	Oct. 18	Oct. 23
Soil type	Warsaw loam	Warsaw loam	Warsaw loam
Previous crop	Corn	Corn	Alfalfa-grass
Population	19,900	20,000	19,500
Rows	30"	30"	30"
Fertilizer	131-63-127	139-72-152	124-102-108
Soil test: pH	6.3	6.0	6.8
P	45 (high)	46 (very high)	19 (low)
K	243 (high)	242 (high)	106 (low)

Farm Cooperator: Richard Van Vrancken, Climax
County Extension Director: Vern Hinz, KalamazooTable 5. SOUTHERN MICHIGAN (Zone 1)
IRRIGATED UPLAND SOIL — CASS COUNTY TRIAL
One, Two, Three Year Averages —
1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging		1972	
	2	3	1972	Yrs	2	3	1972	Yrs		
Michigan 275-2X (2X)	22.8	21	20	98.0	108	98	12.4	12	16	0.0
Michigan 333-3X (3X)	23.7	—	—	129.1	—	—	4.5	—	—	0.0
Michigan 280 (4X)	23.9	22	20	107.0	113	105	14.6	11	12	0.0
*Michigan 410-2X (2X)	25.3	23	—	158.2	154	—	0.8	2	—	0.0
Todd 330 (3X)	25.3	—	—	99.8	—	—	4.5	—	—	0.0
Northrup King PX556 (3X)	25.7	24	22	117.6	123	119	20.7	13	14	1.5
Michigan 396-3X (3X)	25.8	24	22	149.5	140	132	5.5	4	5	0.0
Moews SM220 (2X)	25.8	24	23	137.3	148	139	17.8	9	9	0.8
Migro M-1101 (2X)	25.9	—	—	143.4	—	—	10.1	—	—	2.2
Michigan 400 (4X)	25.9	24	22	105.5	115	109	12.7	8	9	0.0
Todd M20 (2X)	26.0	—	—	101.3	—	—	3.2	—	—	0.0
*Cowbell SX114 (2X)	26.6	—	—	156.1	—	—	0.0	—	—	0.0
*Bayless SX1795 (2X)	26.6	—	—	158.0	—	—	4.4	—	—	0.0
Adler 23X (2X)	26.6	—	—	150.6	—	—	3.0	—	—	0.0
*Super Crost S25 (2X)	26.9	—	—	163.2	—	—	2.9	—	—	0.0
Northrup King PX519 (Sp.)	26.0	25	23	139.0	134	126	6.8	8	9	0.0
Pride R501 (3X)	27.1	25	—	137.2	131	—	2.9	3	—	0.0
Trojan TXS94 (2X)	27.2	—	—	100.4	—	—	20.6	—	—	0.0
Northrup King PX529 (3X)	27.2	—	—	122.1	—	—	4.5	—	—	0.0
Super Crost S63 (2X)	27.6	27	—	148.6	159	—	2.2	2	—	0.0
*Michigan 572-3X (3X)	27.6	25	23	153.0	150	144	6.7	6	5	0.0
*Prairie Stream SX3 (2X)	27.7	26	—	160.8	153	—	2.2	3	—	0.0
DeKalb XL22 (2X)	27.7	—	—	148.7	—	—	1.5	—	—	0.0
Funk Bros G4444 (2X)	27.8	25	—	138.2	148	—	0.0	4	—	0.0
Acco UC3301 (2X)	27.9	26	—	145.0	150	—	2.3	3	—	0.0
Cowbell SX205 (2X)	27.9	26	—	146.2	141	—	2.2	4	—	0.0
Pioneer 3729 (3X)	28.0	—	—	130.4	—	—	4.7	—	—	0.8
*Parker 300 (2X)	28.0	—	—	153.0	—	—	3.1	—	—	0.8
Migro M-3020 (4X)	28.2	—	—	149.6	—	—	6.7	—	—	0.0
Acco UC4561 (2X)	28.2	—	—	124.4	—	—	3.0	—	—	0.7
Michigan 500-2X (2X)	28.2	26	24	148.0	149	137	4.7	3	6	0.0
Parker 360 (2X)	28.3	26	—	134.6	140	—	6.7	5	—	3.0
Migro M-1102 (2X)	28.3	—	—	105.7	—	—	18.7	—	—	1.5
Michigan 511-3X (3X)	28.3	26	24	151.1	152	142	6.3	5	5	0.0
Michigan 560 3X (3X)	28.3	26	24	147.7	149	—	0.8	3	—	0.0
DeKalb XL44 (2X)	28.4	—	—	140.5	—	—	5.3	—	—	0.0
Pride R407 (2X)	28.5	26	23	146.8	151	137	3.0	3	6	2.3
Moews SM229 (2X)	28.8	27	24	141.0	137	127	4.5	4	8	0.0
*Todd M55 (2X)	28.9	26	23	158.2	143	129	0.7	2	6	0.0
Migro M-5040 (4X)	28.9	27	—	145.3	148	—	3.0	2	—	0.0
*Super Crost 4242 (2X)	29.0	27	—	159.7	152	—	1.4	3	—	0.0
Migro M-1010 (2X)	29.1	26	24	129.0	141	131	0.8	2	3	0.0
Super Crost 2772 (2X)	29.2	27	—	139.7	143	—	2.2	3	—	0.0
Renk RK44 (2X)	29.2	26	24	127.9	139	129	0.8	3	5	0.0
Northrup King PX47E (2X)	29.2	26	—	121.8	125	—	1.6	2	—	0.0
Prairie Stream SX1B (2X)	29.3	27	24	142.2	144	138	9.6	8	8	0.0
Todd 130A (3X)	29.4	—	—	115.5	—	—	5.4	—	—	0.0
Garno S96 (2X)	29.5	—	—	144.1	—	—	5.9	—	—	0.0
Northrup King PX610 (3X)	29.7	27	24	148.2	145	136	15.8	13	12	0.0
*Trojan TXS107 (2X)	29.7	—	—	160.5	—	—	1.5	—	—	0.0
Todd M30 (2X)	29.8	29	26	134.0	129	126	5.3	5	6	0.0
Acco UC3201 (2X)	29.9	—	—	140.5	—	—	0.0	—	—	0.0
Funk Bros. G4444 (2X)	30.0	25	24	145.7	148	143	5.2	4	8	0.0
Super Crost S41 (2X)	30.1	28	—	136.7	154	—	8.8	5	—	0.0
Bayless 3X485 (3X)	30.1	—	—	140.8	—	—	2.3	—	—	0.0
Todd M55A (2X)	30.4	—	—	137.3	—	—	5.3	—	—	0.0
*Trojan TXS111 (2X)	30.6	—	—	154.4	—	—	0.0	—	—	0.0
*Migro M-0501 (2X)	30.7	28	—	153.2	142	—	0.8	0	—	0.0
Pioneer 3518 (2X)	30.9	28	—	148.2	149	—	0.8	0	—	0.0
Adler 413 (3X)	30.9	—	—	141.6	—	—	7.6	—	—	0.0
Super Crost S27 (2X)	31.0	—	—	122.5	—	—	0.7	—	—	0.0
*Pioneer 3516 (2X)	31.4	28	25	156.7	153	142	4.5	3	12	0.0
*Garno S106 (2X)	32.3	—	—	155.5	—	—	4.5	—	—	0.0
Trojan TXS109 (2X)	32.3	—	—	137.2	—	—	4.5	—	—	0.0
Average	28.2	26	23	138.5	141	130	5.2	5	8	0.2

(Continued)

TABLE 5. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre		% Stalk lodging		% Root lodging	
	2 1972	3 Yrs	1972 Yrs	2 1972	3 Yrs	1972 Yrs	2 1972	3 Yrs	1972
Range	22.8	21	20	98.0	108	98	0.0	0	3
	to	to	to	to	to	to	to	to	to
	32.3	29	26	163.2	154	146	20.7	13	16
Least significant difference	1.0	0.7	0.5	13.6	6	5			

*Significantly better than average yield in 1972.

	1972	1971	1970
Planted	May 17	May 10	May 7
Harvested	Nov. 1	Oct. 20	Oct. 26
Soil type	Kalamazoo	Kalamazoo	Kalamazoo
Previous crop	sandy loam	sandy loam	sandy loam
Population	22,900	23,000	22,700
Rows	28"	28"	28"
Fertilizer	214-54-18	218-54-138	208-54-138
Irrigation	8 inches	8.5 inches	3 inches
Soil test: pH	6.5	5.9	6.6
P	67 (very high)	121 (very high)	73 (very high)
K	274 (high)	330 (very high)	321 (very high)

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

No results from 1972

Hybrid (Brand — Variety)	% Moisture			Bushels per acre		% Stalk lodging			
	2 1971	3 Yrs	1971 Yrs	2 1971	3 Yrs	1971 Yrs	2 1971	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 333-3X (3X)	21.6	—	—	146.2	—	—	2.2	—	—
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	—	—
Moews SM220 (2X)	23.3	—	—	155.0	—	—	5.0	—	—
*Michigan 410-2X (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	—	—
Michigan 560-2X (2X)	25.0	—	—	158.0	—	—	5.0	—	—
*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
*Acco UC3301 (2X)	26.2	—	—	168.5	—	—	2.1	—	—
Michigan 511-3X (3X)	26.2	23	—	155.5	133	—	0.0	10	—

TABLE 6. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre		% Stalk lodging			
	2 1972	3 Yrs	1972 Yrs	2 1972	3 Yrs	1972 Yrs	2 1972	3 Yrs	
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	0.9	0.6	0.5	14.1	6	4			

*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 and Two Year Averages — 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre		% Stalk lodging			% Root lodging	
	1972	2 Yrs	1972	2 Yrs	1972	2 Yrs	1972	2 Yrs	1972	2 Yrs
Michigan 275-2X (2X)	22.0	21	107.4	126	20.4	15	0.0	—	—	—
Northrup King PX20 (2X)	22.9	—	110.4	—	26.7	—	0.0	—	—	—
Michigan 250 (4X)	23.0	22	95.9	117	29.6	19	3.0	—	—	—
Northrup King PX476 (3X)	23.3	—	101.4	—	31.8	—	0.0	—	—	—
Michigan 280 (4X)	23.3	22	125.2	133	29.4	20	3.0	—	—	—
Michigan 300 (4X)	23.6	22	116.3	125	18.4	17	14.9	—	—	—
Funk Bros. G4195 (3X)	23.7	—	128.3	—	28.2	—	7.3	—	—	—
Michigan 333-3X (3X)	23.9	23	124.0	142	14.7	9	0.0	—	—	—
DeKalb XL12 (2X)	24.0	—	108.0	—	37.1	—	0.0	—	—	—
Funk Bros. G4252 (3X)	24.3	23	101.4	130	26.2	16	2.2	—	—	—
Pioneer 3909 (2X)	24.5	—	118.8	—	23.6	—	2.1	—	—	—
Cowbell SX102 (2X)	24.8	23	121.0	136	5.1	6	4.4	—	—	—
*Michigan 410-2X (2X)	25.0	24	144.2	154	9.2	5	15.0	—	—	—
Michigan 396-3X (3X)	25.0	23	137.7	149	20.4	12	7.2	—	—	—
Pioneer 3956 (2X)	25.0	23	123.7	131	33.2	23	0.0	—	—	—
*Acco UC2301 (2X)	25.6	24	148.1	154	19.8	11	0.0	—	—	—
Trojan TX94 (2X)	25.9	—	118.3	—	28.8	—	6.5	—	—	—
Michigan 400 (4X)	26.1	24	114.4	122	23.0	14	0.0	—	—	—
*Funk Bros. G4343 (2X)	26.1	—	147.4	—	27.5	—	2.9	—	—	—
Northrup King PX519 (Sp.)	26.1	—	124.6	—	25.3	—	0.0	—	—	—
*Migro M-1101 (2X)	26.1	—	145.8	—	18.1	—	5.8	—	—	—
Pioneer 3784 (2X)	26.4	25	127.7	145	16.3	11	0.7	—	—	—
DeKalb XL24 (2X)	26.5	24	140.4	138	30.5	19	2.8	—	—	—
Northrup King PX525 (3X)	26.5	—	121.0	—	27.8	—	0.8	—	—	—
Funk Bros. G4240 (2X)	26.9	25	102.5	114	20.0	13	4.3	—	—	—
*DeKalb XL22B (2X)	27.0	26	142.5	148	28.5	16	0.0	—	—	—
*Renk RK11A (Sp.)	27.0	—	157.8	—	4.4	—	8.8	—	—	—
Acco UC2901 (2X)	27.2	—	115.8	—	8.9	—	4.4	—	—	—
Acco U334 (3X)	27.3	—	131.3	—	9.0	—	1.5	—	—	—
Hy Pro (open poll.)	27.4	—	67.6	—	54.0	—	4.3	—	—	—

(Continued)

TABLE 7. (Continued)

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging	
	1972	2 Yrs	1972	2 Yrs	1972	2 Yrs	1972	2 Yrs
Pioneer 3773 (2X)	27.5	26	129.2	140	32.2	22	0.0	
Migro M-1102 (2X)	27.6	—	106.1	—	30.3	—	0.0	
*Pioneer 3780 (2X)	27.8	—	148.2	—	5.7	—	2.9	
Acco UC3300 (2X)	27.9	26	119.2	143	35.7	18	0.0	
DeKalb XL45A (2X)	27.9	27	131.4	149	28.5	15	1.5	
Northrup King PX47E (2X)	28.1	—	117.4	—	8.1	—	6.6	
Trojan TX102 (3X)	28.6	—	125.6	—	9.3	—	1.4	
Michigan 500-2X (2X)	28.7	27	134.0	147	24.8	14	4.3	
Cowbell SX205 (2X)	28.8	27	130.3	127	19.3	11	0.0	
*Michigan 511-3X (3X)	28.8	27	142.4	157	5.0	4	2.9	
*Funk Bros. G4444 (2X)	28.8	27	150.9	157	18.2	10	6.6	
Cowbell SX112 (2X)	28.8	27	131.6	134	19.0	15	5.6	
*Michigan 572-3X (3X)	28.8	26	148.8	162	23.2	12	1.5	
Michigan 560-2X (2X)	28.9	26	137.6	155	10.1	7	0.9	
Pioneer 3729 (3X)	29.0	—	119.4	—	12.8	—	1.5	
Acco UC3201 (2X)	29.0	—	134.9	—	5.8	—	8.8	
*Migro M-5040 (4X)	29.3	—	157.1	—	9.4	—	12.2	
*Migro M-3020 (4X)	29.3	—	150.3	—	14.7	—	1.5	
*Blaney B-AA (2X)	29.3	27	147.3	142	14.5	8	2.9	
Migro M-1010 (2X)	29.5	27	139.1	139	5.0	3	4.3	
*Migro M-0501 (2X)	30.4	29	158.9	149	2.9	1	0.7	
*Northrup King PX50A (2X)	30.5	28	155.6	162	4.2	3	2.1	
Average	26.7	25	128.5	141	19.7	13	3.3	
Range	22.0	21	67.6	114	2.9	1	0.0	
	to	to	to	to	to	to	to	
	30.9	29	158.9	162	54.9	23	15.0	
Least significant difference	0.9	0.7	12.1	7				

*Significantly better than average yield in 1972.

	1972	1971
Planted	May 11	May 5
Harvested	Oct. 31	Oct. 21
Soil type	Bellville loam	Bellville loam
Previous crop	Corn	Corn
Population	21,800	22,300
Rows	30"	36"
Fertilizer	123-58-120	225-64-120, manure
Soil test: pH	6.9	6.4
P	28 (medium)	34 (medium)
K	301 (high)	156 (medium)

Farm Cooperator: Gerald Kayser, Caledonia

County Extension Director: Robert Knisely, Grand Rapids

Table 8. SOUTH CENTRAL MICHIGAN (Zone 2)
OTTAWA COUNTY TRIAL
One, Two, and Three Year Averages —
1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging	
	1972	2 3 Yrs Yrs	1972	2 3 Yrs Yrs	1972	2 3 Yrs Yrs
Michigan 275-2X (2X)	22.8	21 20	88.8	87 86	38.8	20 21
Michigan 333-3X (3X)	23.1	22 —	106.9	102 —	33.8	18 —
Michigan 280 (4X)	24.2	23 21	88.9	86 88	38.3	24 22
Michigan 300 (4X)	24.2	22 22	93.8	84 90	35.9	21 20
Blaney B-302 (2X)	24.5	— —	112.4	— —	37.9	— —
Michigan 250 (4X)	24.6	22 22	85.2	83 83	39.2	22 24
Northrup King PX476 (3X)	24.7	— —	92.4	— —	38.4	— —
Michigan 396-3X (3X)	24.7	24 23	122.4	115 112	23.3	14 13
Funk Bros. G4252 (3X)	25.1	23 23	89.0	91 84	39.1	20 25
Jung Ex. 99 (2X)	25.5	— —	100.8	— —	35.2	— —

TABLE 8. (Continued)

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging	
	1972	2 Yrs	1972	2 Yrs	1972	2 Yrs
Acco UC1901 (2X)	25.7	24 —	87.7	92 —	45.4	24 —
Cowbell SX002 (2X)	25.8	24 —	90.0	86 —	24.6	13 —
Michigan 400 (4X)	25.8	25 24	91.6	91 91	27.0	14 15
*Michigan 410-2X (2X)	25.9	25 24	137.1	128 122	30.0	15 13
*Migro M1101 (2X)	26.0	— —	134.4	— —	38.7	— —
Cowbell SX205 (2X)	26.0	26 —	108.8	112 —	41.8	21 —
*Pioneer 3780 (2X)	26.2	— —	143.9	— —	35.1	— —
Acco U334 (3X)	26.5	— —	120.9	— —	40.9	— —
DeKalb XL12 (2X)	26.5	— —	86.6	— —	47.8	— —
Pioneer 3909 (2X)	26.6	— —	91.8	— —	43.9	— —
Northrup King PX20 (2X)	26.7	— —	99.4	— —	35.0	— —
*Jacques JX162A (2X)	26.8	— —	138.0	— —	31.4	— —
Northrup King PX25 (3X)	26.8	— —	80.3	— —	50.0	— —
Northrup King PX519 (Sp.)	26.9	— —	111.9	— —	37.9	— —
Migro M1102 (2X)	26.9	— —	97.0	— —	48.1	— —
Acco UC2301 (2X)	26.9	25 —	119.6	115 —	43.1	23 —
Pioneer 3784 (2X)	27.4	26 —	105.9	97 —	22.8	11 —
*Northrup King PX50A (2X)	27.9	27 —	141.4	120 —	28.2	14 —
Acco UC2901 (2X)	28.0	— —	108.3	— —	37.2	— —
Northrup King PX47E (2X)	28.1	— —	119.0	— —	42.0	— —
*Michigan 572-3X (3X)	28.1	27 —	130.8	124 —	37.0	19 —
DeKalb XL22B (Sp.)	28.4	27 —	122.1	120 —	37.4	20 —
Pioneer 3729 (3X)	28.4	— —	103.1	— —	37.1	— —
Michigan 500-2X (2X)	28.4	26 25	127.7	123 121	38.8	19 13
Funk Bros. G4343 (2X)	28.5	— —	125.5	— —	20.1	— —
Jung JX107 (2X)	28.6	— —	122.6	— —	28.4	— —
DeKalb XL24 (2X)	28.6	26 25	93.6	94 90	37.6	19 18
*Migro M3020 (4X)	28.6	— —	140.2	— —	30.0	— —
Cowbell SX102 (2X)	28.6	25 23	103.1	95 91	26.7	14 17
*Super Crost S25 (2X)	29.0	— —	143.0	— —	29.1	— —
*Michigan 511-3X (3X)	29.0	28 27	136.6	127 118	24.9	12 13
Pioneer 3773 (2X)	29.1	27 26	105.4	103 101	39.8	20 27
*Jung JX111 (2X)	29.2	— —	142.2	— —	18.3	— —
*Acco UC3201 (2X)	29.2	— —	135.5	— —	27.3	— —
*Super Crost S27 (2X)	29.6	— —	137.7	— —	25.4	— —
*Michigan 560-2X (2X)	29.7	28 —	129.8	126 —	26.0	13 —
*Blaney B-501A (2X)	29.8	— —	138.6	— —	29.5	— —
*DeKalb XL22 (2X)	30.6	29 —	143.6	119 —	22.8	12 —
Cowbell 3X300 (3X)	30.8	27 —	107.9	92 —	46.7	24 —
*Acco UC3301 (2X)	30.9	30 —	131.9	123 —	29.6	16 —
*Migro M1010 (2X)	31.2	29 —	142.2	113 —	20.9	10 —
*Funk Bros. G4444 (2X)	31.8	29 28	135.5	130 116	19.8	10 18
DeKalb XL45A (2X)	32.1	29 27	110.7	113 102	46.4	24 24
Migro M5040 (4X)	32.6	— —	129.2	— —	24.0	— —
*Migro M0501 (2X)	33.6	30 —	139.3	121 —	21.7	12 —
Average	27.7	26 24	114.5	106 101	33.8	17 19
Range	22.8	21 20	85.2	83 83	18.3	10 13
	to	to	to	to	to	to
	33.6	30 28	143.9	130 122	50.0	24 27
Least significant difference	1.0	0.7 0.5	11.9	6 4		

*Significantly better than average yield in 1972.

	1972	1971	1970
Planted	May 16	May 6	May 27
Harvested	Dec. 5-12	Oct. 23	Oct. 28
Soil type	Allendale fine sandy loam	Allendale fine sandy loam	—
Previous crop	Corn	Corn	Corn
Population	20,200	19,600	20,100
Rows	30"	30"	30"
Fertilizer	110-80-40, manure	16-72-20, manure	170-80-40
Soil test: pH	6.6	6.4	6.5
P	74 (very high)	80 (very high)	145 (very high)
K	325 (very high)	330 (very high)	293 (high)

Farm Cooperator: Jim Busman, Coopersville (1972 & 1971)

Marvin Patmos, Jamestown (1970)

County Extension Director: Lawrence Stebbins, Grand Haven

Table 9. SOUTH CENTRAL MICHIGAN (Zone 2)
GRAIN — INGHAM COUNTY TRIAL
One, Two, Three Year Averages — 1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging			
	2 3 1972 Yrs Yrs		2 3 1972 Yrs Yrs		2 3 1972 Yrs Yrs		1972			
	1972	Yrs	1972	Yrs	1972	Yrs	1972	Yrs		
Michigan 280 (4X)	22.0	22	22	105.4	105	104	2.4	2	2	5.9
Michigan 300 (4X)	23.3	23	23	98.1	97	97	1.7	1	3	8.0
Michigan 250 (4X)	23.4	—	—	101.0	—	—	5.7	—	—	3.4
Michigan 275-2X (2X)	23.5	23	23	106.7	101	99	3.6	2	4	0.0
Taylor Evans Hastymaker (4X)	24.1	25	—	87.6	80	—	0.6	1	—	0.0
Michigan 333-3X (3X)	24.2	24	—	133.0	123	—	2.2	2	—	4.5
Jung EX99 (2X)	24.5	—	—	100.0	—	—	0.6	—	—	0.0
Funk Bros. G4252	25.0	25	25	97.1	97	91	3.6	2	3	0.0
Warwick 405 (4X)	25.0	26	—	90.3	103	—	2.9	2	—	1.1
Funk Bros. G4195 (3X)	25.0	—	—	133.8	—	—	4.5	—	—	2.8
Taylor Evans Suremaker (2X)	25.9	—	—	100.5	—	—	0.6	—	—	0.0
Pioneer 3909 (2X)	25.9	—	—	133.4	—	—	1.1	—	—	0.6
DeKalb XL12 (2X)	26.1	—	—	104.9	—	—	4.4	—	—	0.0
Michigan 396-3X (3X)	26.2	25	25	138.4	128	126	1.8	1	2	0.0
Acco UC1900 (2X)	26.4	26	25	110.8	112	109	2.8	1	2	3.4
Acco UC2300 (2X)	26.4	26	25	114.6	113	115	3.4	2	2	1.1
Migro M-1101 (2X)	26.5	—	—	133.3	—	—	0.6	—	—	2.3
Hy-Pro (open pollinated)	26.5	—	—	75.0	—	—	8.6	—	—	2.6
Acco U333 (3X)	26.5	27	—	109.9	114	—	1.2	1	—	1.2
Michigan 400 (4X)	26.5	26	25	111.2	107	107	1.8	1	1	1.2
*Michigan 410-2X (2X)	26.5	26	26	146.8	134	134	2.7	1	1	0.0
DeKalb XL316 (3X)	26.6	27	—	135.0	121	—	0.0	0	—	0.0
Wolverine W166 (2X)	26.6	27	—	137.4	126	—	1.1	1	—	0.0
Pride R200A (2X)	26.9	—	—	101.7	—	—	1.7	—	—	1.7
Pride R290 (2X)	27.0	—	—	122.3	—	—	2.9	—	—	2.3
Asgrow RX53 (2X)	27.2	28	—	118.8	118	—	1.7	1	—	0.0
*Michigan 572-3X (3X)	27.5	27	27	148.7	131	132	2.3	1	1	0.6
Jung JX107 (2X)	27.5	—	—	128.3	—	—	1.8	—	—	1.8
Super Crost 1712 (2X)	27.5	—	—	115.9	—	—	7.0	—	—	0.0
Warwick SL416 (2X)	27.6	27	—	117.9	108	—	0.6	0	—	2.3
Taylor Evans Timemaker (4X)	27.6	28	—	102.8	93	—	5.7	3	—	0.0
*Asgrow RX58 (2X)	27.9	27	—	141.2	122	—	2.2	1	—	2.2
Trojan TXS103 (2X)	28.0	28	—	116.0	121	—	1.7	1	—	1.1
Warwick SL501 (Sp.)	28.1	—	—	136.2	—	—	1.8	—	—	6.5
DeKalb XL21 (2X)	28.1	—	—	137.6	—	—	1.2	—	—	0.0
DeKalb XL24 (2X)	28.1	27	27	127.4	112	107	0.0	0	2	3.4
*Funk Bros. G4444 (2X)	28.2	28	28	148.6	135	134	3.4	2	2	1.1
*Cowbell SX209 (2X)	28.3	—	—	148.2	—	—	4.0	—	—	4.5
Pioneer 3780 (2X)	28.4	—	—	129.0	—	—	0.6	—	—	0.0
Northrup King PX529 (3X)	28.4	—	—	131.6	—	—	6.3	—	—	0.0
Cowbell SX112 (2X)	28.7	28	27	134.4	130	126	4.5	2	2	4.0
Funk Bros. G4343 (2X)	28.7	—	—	138.0	—	—	2.3	—	—	1.7
Anderson A-95 (4X)	28.8	—	—	110.1	—	—	2.4	—	—	0.6
Pioneer 3729 (3X)	28.8	—	—	123.6	—	—	1.2	—	—	0.0
Acco UC2901 (2X)	28.9	—	—	128.4	—	—	0.6	—	—	5.0
Acco UC3300 (2X)	28.9	29	29	136.7	128	130	1.1	1	1	2.2
Michigan 500-2X (2X)	28.9	28	27	137.2	131	127	1.9	1	3	0.0
*Trojan TXS102 (2X)	29.1	30	29	139.7	120	123	1.8	1	1	4.1
*Northrup King PX545 (3X)	29.1	—	—	139.9	—	—	3.4	—	—	0.0
Warwick TX60 (Sp.)	29.2	28	—	105.7	100	—	6.3	3	—	3.4
*Michigan 560-2X (2X)	29.4	29	—	139.9	129	—	1.8	1	—	0.6
*Super Crost S29 (2X)	29.4	—	—	144.9	—	—	0.6	—	—	0.0
*Renk RK11A (Sp.)	29.5	—	—	143.9	—	—	2.8	—	—	2.3
*Blaney B-701 (2X)	29.5	—	—	152.1	—	—	3.9	—	—	0.0
Migro M-1010 (2X)	29.6	29	28	123.7	113	113	0.0	0	1	1.8
Northrup King PX47E (2X)	29.6	30	—	129.3	114	—	2.3	1	—	0.6
*Michigan 511-3X (3X)	29.6	29	28	144.5	133	132	2.6	2	2	0.0
Migro M-1102 (2X)	29.6	—	—	107.4	—	—	3.7	—	—	3.7
Pioneer 3773 (2X)	29.7	28	27	117.4	118	115	3.9	2	2	2.2
Super Crost S27 (2X)	29.7	28	28	140.4	122	118	1.7	1	1	0.0

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging			
	2 3 1972 Yrs Yrs		2 3 1972 Yrs Yrs		2 3 1972 Yrs Yrs		1972			
	1972	Yrs	1972	Yrs	1972	Yrs	1972	Yrs		
Garno S96 (2X)	29.8	—	—	134.2	—	—	0.0	—	—	3.4
DeKalb XL22B (Sp.)	29.8	28	—	132.0	122	—	1.8	1	—	5.8
*Acco UC3301 (2X)	30.1	30	—	152.0	140	—	4.6	2	—	1.7
Super Crost S41 (2X)	30.2	31	—	118.8	126	—	3.4	2	—	0.0
Northrup King PX50A (2X)	30.2	—	—	124.8	—	—	2.8	—	—	3.9
Wolverine W176 (2X)	30.2	29	29	131.0	120	118	0.0	0	1	0.0
*Migro M-5040 (4X)	30.4	31	—	148.6	135	—	1.1	1	—	1.1
Blaney B-AA (2X)	30.5	—	—	117.5	—	—	1.7	—	—	2.9
Northrup King PX556 (3X)	30.6	—	—	114.9	—	—	1.8	—	—	1.8
Pride R501 (3X)	30.6	28	—	125.2	119	—	0.0	0	—	0.0
DeKalb XL45A (2X)	30.7	30	30	125.6	128	123	0.6	0	1	2.3
Cowbell SX205 (2X)	30.7	29	—	125.3	120	—	0.6	0	—	4.5
Trojan TXS105 (2X)	30.7	29	—	133.5	129	—	1.7	1	—	0.0
Super Crost S25 (2X)	30.8	29	—	132.3	116	—	5.9	3	—	2.4
Migro M-3020 (4X)	30.8	—	—	109.4	—	—	3.8	—	—	1.9
*Super Crost 2772 (2X)	31.0	29	—	144.0	130	—	1.8	1	—	0.0
*Jung JX111 (2X)	31.4	—	—	151.0	—	—	0.6	—	—	1.7
Trojan TXS104 (2X)	31.4	31	—	134.2	125	—	0.6	1	—	0.0
Super Crost S28 (2X)	31.5	30	—	132.0	118	—	7.9	4	—	0.6
*Muncy Chief SX662 (2X)	31.6	—	—	140.9	—	—	1.7	—	—	0.6
Garno S106 (2X)	31.7	—	—	128.1	—	—	4.2	—	—	3.0
Cowbell 3X314 (3X)	31.7	—	—	138.5	—	—	0.0	—	—	2.3
Anderson AX-3 (2X)	31.8	—	—	134.0	—	—	2.3	—	—	0.0
Pioneer 3516 (2X)	31.9	31	—	116.3	122	—	0.6	0	—	0.0
Cowbell SX114 (2X)	31.9	—	—	138.1	—	—	1.1	—	—	0.6
*Pride R450 (2X)	32.1	32	30	142.5	129	127	0.0	0	0	2.4
Taylor Evans Marketmaker (2X)	32.2	30	—	137.7	125	—	0.6	1	—	0.6
Blaney B773 (3X)	32.2	—	—	130.9	—	—	5.4	—	—	0.0
Acco UC3201 (2X)	32.5	—	—	122.0	—	—	2.3	—	—	0.6
Muncy Chief SX550 (2X)	32.6	—	—	132.4	—	—	1.2	—	—	3.5
Muncy Chief SX440 (2X)	32.8	—	—	126.5	—	—	0.0	—	—	1.1
Migro M-0501 (2X)	33.5	33	—	127.8	118	—	2.4	1	—	6.0
Muncy Chief SX878 (2X)	33.6	—	—	133.9	—	—	1.1	—	—	6.1
Muncy Chief H764 (4X)	33.7	—	—	101.8	—	—	0.6	—	—	2.4
Average	28.7	28	27	125.6	119	119	2.2	1	2	1.7
Range	22.0	22	22	75.0	80	91	0.0	0	0	0.0
	to	to	to	to	to	to	to	to	to	to
	33.7	33	30	152.1	140	137	8.6	4	4	8.0
Least significant difference	1.0	.7	.5	13.0	7	5				

*Significantly better than average yield in 1972.

	1972	1971	1970
Planted	May 1	April 30	April 28
Harvested	Oct. 10	Sept. 30	Oct. 2
Soil type	Conover clay loam	Conover clay loam	Conover clay loam
Previous crop	Corn	Corn	Corn
Population	20,000	19,700	20,000
Rows	36"	36"	36"
Fertilizer	155-70-70**	153-70-70**	158-85-85**
Soil test: pH	6.2	6.6	6.4
P	101 (very high)</		

Table 10. SOUTH CENTRAL MICHIGAN (Zone 2) SILAGE — INGHAM COUNTY TRIAL
 One, Two, Three Year Averages — 1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture in ear			Tons per acre						% Ears in dry weight					
				Green weight			Dry weight								
	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs	2 1972	3 Yrs	
Michigan 275-2X (2X)	31.6	35	31	15.9	14.4	12.5	6.0	5.4	5.6	58	58	58			
Michigan 250 (4X)	32.5	37	33	15.5	16.1	14.1	6.2	5.9	5.9	54	53	53			
Michigan 280 (4X)	33.0	38	32	17.4	17.3	14.7	7.0	6.3	6.3	57	54	56			
Funk Bros. G4195 (3X)	33.1	—	—	17.9	—	—	7.6	—	—	56	—	—			
Michigan 300 (4X)	33.2	38	34	16.8	17.1	15.0	6.6	6.2	6.4	55	53	54			
Funk Bros. G4252 (3X)	34.9	41	37	15.6	15.0	13.7	6.0	5.6	5.7	51	51	51			
Jung Ex. 99 (2X)	35.1	—	—	15.5	—	—	6.1	—	—	55	—	—			
Michigan 333-3X (3X)	35.3	40	—	17.1	17.2	—	7.0	6.4	—	58	56	—			
Warwick 405 (4X)	36.6	40	—	16.3	16.9	—	6.0	5.7	—	54	52	—			
DeKalb XL12 (2X)	37.2	—	—	15.7	—	—	6.3	—	—	58	—	—			
Michigan 400 (4X)	37.3	41	37	16.0	16.4	14.9	6.0	5.7	5.9	57	54	53			
Migro M-1101 (2X)	37.5	—	—	21.3	—	—	7.9	—	—	52	—	—			
Michigan 396-3X (3X)	37.6	42	38	21.7	19.7	17.7	7.8	6.9	7.2	56	53	53			
Funk Bros. G4343 (2X)	38.0	—	—	20.7	—	—	8.0	—	—	53	—	—			
Asgrow RX53 (2X)	38.2	43	—	22.3	20.1	—	7.8	6.8	—	52	51	—			
Acco UC1900 (2X)	38.3	41	37	18.5	16.8	15.4	7.2	6.2	6.5	55	51	51			
Pioneer 3909 (2X)	38.3	43	—	16.7	17.1	—	6.5	6.3	—	53	51	—			
Taylor-Evans															
Suremaker (2X)	38.3	—	—	16.3	—	—	6.2	—	—	60	—	—			
Hy-Pro (open poll.)	38.5	—	—	11.5	—	—	5.0	—	—	53	—	—			
DeKalb XL316 (3X)	38.6	43	—	21.2	19.4	—	7.5	6.6	—	52	50	—			
Renk RK11A (Sp.)	38.6	—	—	21.0	—	—	7.6	—	—	55	—	—			
Michigan 410-2X (2X)	38.7	43	39	22.4	21.1	19.0	8.1	7.3	7.5	51	51	53			
DeKalb XL21 (2X)	38.7	—	—	16.5	—	—	6.6	—	—	59	—	—			
Super Crost 1712 (2X)	38.8	—	—	17.2	—	—	7.0	—	—	55	—	—			
Taylor-Evans															
Hastymaker (4X)	38.9	41	—	13.9	12.8	—	5.4	4.7	—	59	55	—			
Northrup King															
PX529 (3X)	38.9	—	—	19.8	—	—	7.0	—	—	57	—	—			
Jung JX107 (2X)	39.2	—	—	20.3	—	—	7.6	—	—	56	—	—			
Acco UC2300 (2X)	39.3	42	38	16.7	16.6	15.1	6.6	6.1	6.2	58	55	55			
Wolverine W166 (2X)	39.5	43	—	17.0	16.2	—	6.4	5.5	—	57	54	—			
Pride R200A (2X)	39.5	—	—	17.6	—	—	6.3	—	—	57	—	—			
DeKalb XL24 (2X)	39.7	44	39	19.9	18.3	15.4	7.2	6.2	6.1	52	52	55			
Cowbell SX112 (2X)	39.7	44	40	20.5	19.8	17.3	7.5	6.8	6.8	54	50	54			
Taylor-Evans															
Timemaker (4X)	39.9	44	—	17.3	16.5	—	6.1	5.6	—	55	52	—			
Blaney B701 (2X)	39.9	—	—	21.6	—	—	7.5	—	—	55	—	—			
Acco U333 (3X)	40.3	45	—	17.2	17.5	—	6.6	6.1	—	55	52	—			
Pride R290 (2X)	40.3	—	—	19.5	—	—	7.1	—	—	52	—	—			
Warwick SL501 (Sp.)	40.5	—	—	19.4	—	—	7.3	—	—	54	—	—			
Anderson A-95 (4X)	40.6	—	—	17.7	—	—	6.4	—	—	50	—	—			
Michigan 500-2X (2X)	40.6	44	40	19.9	19.4	16.9	6.7	6.2	6.3	57	55	57			
Cowbell SX114 (2X)	40.7	—	—	21.3	—	—	7.5	—	—	55	—	—			
Asgrow RX58 (2X)	40.9	44	—	20.5	19.4	—	7.3	6.7	—	58	56	—			
Michigan 572-3X (3X)	40.9	44	40	20.5	21.6	19.7	7.2	6.8	7.3	58	53	53			
Warwick TX60 (Sp.)	40.9	44	—	16.5	16.1	—	6.0	5.5	—	51	48	—			
Warwick SL416 (2X)	41.1	44	—	19.4	18.0	—	6.5	5.9	—	51	53	—			
Pioneer 3729 (3X)	41.2	—	—	18.4	—	—	6.6	—	—	57	—	—			
Cowbell SX205 (2X)	41.3	45	—	20.3	20.0	—	7.0	6.7	—	49	48	—			
Super Crost S29 (2X)	41.4	—	—	21.8	—	—	7.3	—	—	50	—	—			
Blaney B-AA (2X)	41.6	—	—	20.9	—	—	7.4	—	—	56	—	—			
Trojan TXS103 (2X)	41.7	45	—	20.4	18.2	—	7.6	6.3	—	52	50	—			
Northrup King															
PX545 (3X)	41.9	—	—	22.7	—	—	7.8	—	—	52	—	—			
Michigan 511-3X (3X)	41.9	46	41	22.2	21.3	19.2	7.7	7.1	7.3	55	52	54			
Trojan TXS102 (2X)	41.9	46	41	20.2	18.6	17.1	7.7	6.8	7.1	56	55	56			
Jung JX111 (2X)	42.0	—	—	21.5	—	—	7.3	—	—	59	—	—			
Acco UC2901 (2X)	42.0	—	—	20.3	—	—	7.1	—	—	54	—	—			
DeKalb XL22B (Sp.)	42.2	46	—	19.9	18.5	—	7.2	6.6	—	52	51	—			
Northrup King															
PX556 (3X)	42.3	—	—	19.7	—	—	6.8	—	—	52	—	—			
Northrup King															
PX47E (2X)	42.4	46	—	20.6	19.3	—	7.3	6.6	—	49	48	—			
Michigan 560-2X (2X)	42.4	45	—	20.2	21.0	—	7.0	6.6	—	56	53	—			
Acco UC3201 (2X)	42.6	—	—	20.7	—	—	6.8	—	—	49	—	—			
Funk Bros. G4444 (2X)	42.7	46	42	20.4	20.1	17.8	7.0	6.7	6.8	53	53	54			

Table 11. NORTH CENTRAL MICHIGAN (Zone 3) SANILAC COUNTY TRIAL
One, Two, Three Year Averages — 1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture		Bushels per acre			% Stalk lodging		% Root lodging		1972	
			2 3		1972 Yrs Yrs		2 3		1972 Yrs Yrs		
	1972	Yrs	1972	Yrs	1972	Yrs	1972	Yrs	1972		
Michigan 250 (4X)	22.9	24	23	110.1	101	101	4.1	2	4	1.2	
Garno S70 (2X)	23.4	26	—	106.6	105	—	0.6	0	—	0.0	
Asgrow RX35A (3X)	24.7	26	25	108.4	98	94	0.6	0	1	0.0	
Michigan 275-2X (2X)	24.7	25	24	123.9	105	105	4.2	3	5	0.0	
Michigan 280 (4X)	24.7	24	24	127.1	108	112	3.7	2	5	0.0	
United 106 (2X)	25.7	—	—	86.2	—	—	26.8	—	—	0.0	
Michigan 300 (4X)	25.7	27	25	123.8	104	106	2.3	3	3	9.0	
Michigan 333-3X (3X)	26.0	28	27	137.5	122	131	1.8	1	1	0.0	
Funk Bros. G4180 (3X)	26.4	28	—	111.2	94	—	1.7	1	—	0.0	
Asgrow RX42 (2X)	26.5	—	—	138.0	—	—	0.6	—	—	0.0	
Michigan 400 (4X)	26.6	28	27	127.1	110	111	1.9	1	3	0.0	
DeKalb XL12 (2X)	26.6	28	26	122.1	115	113	0.6	0	0	0.0	
Pioneer 3909 (2X)	26.6	29	27	129.3	107	115	5.2	3	2	0.0	
Blaney B-302 (2X)	26.6	—	—	128.9	—	—	1.1	—	—	1.7	
Wolverine W128 (2X)	26.9	—	—	107.7	—	—	1.1	—	—	0.0	
Garno S85 (2X)	27.3	28	—	125.8	113	—	0.6	0	—	0.0	
DeKalb XL304 (3X)	27.6	—	—	142.1	—	—	1.7	—	—	1.7	
*Michigan 396-3X (3X)	27.8	29	28	145.2	126	134	0.6	0	2	0.6	
*Renk RK6 (Sp.)	27.9	—	—	146.8	—	—	0.0	—	—	0.0	
P.A.G. SX44 (2X)	28.5	30	—	104.6	90	—	1.7	1	—	0.0	
Pioneer 3911 (2X)	28.5	28	26	117.1	109	111	5.9	3	4	2.4	
Oxy 362 (2X)	28.6	31	29	122.9	104	116	0.6	0	1	0.6	
*Michigan 410-2X (2X)	28.6	30	29	147.5	137	143	1.1	1	1	3.9	
Pioneer 3937	28.6	—	—	131.7	—	—	0.0	—	—	0.0	
Northrup King PX476 (3X)	28.7	—	—	114.4	—	—	0.0	—	—	1.2	
P.A.G. SX67 (2X)	28.7	—	—	140.2	—	—	0.0	—	—	0.0	
Cowbell SX102 (2X)	28.9	—	—	140.4	—	—	0.6	—	—	1.7	
Pioneer 3956 (2X)	28.9	28	27	142.9	122	118	2.3	1	8	0.0	
Oxy E22 (4X)	29.7	30	28	126.0	110	116	0.6	0	2	0.0	
*Asgrow RX53 (2X)	30.1	32	—	149.5	125	—	0.0	0	—	0.0	
Pride R290 (2X)	30.2	32	30	139.0	127	132	1.1	1	3	0.6	
Oxy 476 (3X)	30.2	—	—	109.1	—	—	0.0	—	—	0.0	
Pioneer 3784 (2X)	30.2	32	—	140.2	127	—	1.1	1	—	0.0	
Pioneer 385 (4X)	30.7	—	—	124.9	—	—	4.4	—	—	2.2	
Oxy E16 (2X)	31.0	30	—	102.9	89	—	1.1	1	—	0.0	
Cowbell SX002 (2X)	31.1	—	—	116.3	—	—	4.1	—	—	2.9	
Asgrow RX43A (Sp.)	31.5	31	29	102.6	104	113	3.1	2	2	1.2	
Migro M-1101 (2X)	31.5	—	—	143.7	—	—	1.1	—	—	1.6	
*Pioneer 3773 (2X)	32.1	33	31	156.3	132	138	0.6	0	2	0.0	
*Michigan 511-3X (3X)	32.4	34	—	151.0	132	—	0.0	0	—	0.0	
Cowbell SX112 (2X)	32.5	—	—	132.0	—	—	0.0	—	—	0.0	
Northrup King PX529 (3X)	32.7	—	—	139.0	—	—	0.6	—	—	0.0	
*Michigan 572-3X (3X)	32.8	33	—	150.3	132	—	0.6	1	—	0.0	
Pioneer 3780 (2X)	32.8	—	—	131.4	—	—	2.3	—	—	0.0	
Northrup King PX519 (Sp.)	32.9	—	—	137.7	—	—	1.1	—	—	0.0	
Michigan 500-2X (2X)	33.1	34	31	143.9	129	135	1.1	1	2	0.0	
Blaney B-55A (3X)	33.3	—	—	114.1	—	—	0.6	—	—	0.0	
DeKalb XL21 (2X)	33.5	—	—	142.8	—	—	0.6	—	—	0.0	
Gutwein 10A (2X)	33.7	—	—	140.5	—	—	0.0	—	—	0.5	
Pioneer X8351 (2X)	33.7	—	—	132.2	—	—	0.6	—	—	0.0	
*Blaney B501A (2X)	34.2	—	—	146.5	—	—	1.1	—	—	0.0	
*Funk Bros. G4444 (2X)	35.0	34	—	148.9	131	—	0.0	0	—	1.1	
*Northrup King PX47E (2X)	35.1	35	—	149.0	137	—	0.0	0	—	2.7	
Michigan 560-3X (3X)	35.2	35	—	139.2	131	—	1.7	1	—	0.0	
*Asgrow RX58 (2X)	36.1	36	33	148.2	132	129	0.6	0	1	0.6	
DeKalb XL22B (2X)	36.4	—	—	137.2	—	—	0.6	—	—	0.0	
Garno S90 (2X)	36.5	33	—	128.5	107	—	0.6	0	—	0.0	
*Blaney B-AA (2X)	36.6	—	—	151.5	—	—	0.0	—	—	0.5	
Oxy 352 (2X)	38.5	—	—	135.1	—	—	0.6	—	—	0.0	
Average	30.1	30	27	130.9	117	120	1.7	1	3	0.7	
	22.9	24	23	86.2	89	94	0.0	0	0	0.0	
Range	to	to	to	to	to	to	to	to	to	to	
	38.5	36	33	156.3	137	143	26.8	3	7	9.0	
Least significant difference	1.2	0.7	0.5	13.7	7	5					

*Significantly better than average yield in 1972.

Planted	May 11	May 11	May 5
Harvested	Nov. 3	Oct. 20	Nov. 5
Soil type	Brookston	Brookston	Brookston
Previous crop	Corn	Corn	Corn
Population	20,000	19,800	19,300
Rows	30"	30"	30"
Fertilizer	115-60-60	143-72-72	117-68-188
Soil test: pH	6.6	6.2	6.8
P	46 (very high)	85 (very high)	57 (very high)
K	267 (high)	214 (high)	274 (high)

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

Table 12. NORTH CENTRAL MICHIGAN (Zone 3) SAGINAW COUNTY TRIAL
One, Two, Three Year Averages — 1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture		Bushels per acre			% Stalk lodging		% Root lodging		1972	
			2 3		1972 Yrs Yrs		2 3		1972 Yrs Yrs		
	1972	Yrs	1972	Yrs	1972	Yrs	1972	Yrs	1972		
Michigan 280 (4X)	22.3	21	21	131.6	108	116	10.3	5	7	0.0	
Michigan 250 (4X)	22.6	21	21	104.1	89	97	16.4	10	10	0.0	
Michigan 275-2X (2X)	22.8	21	21	121.2	102	109	14.2	7	8	0.0	
Pioneer 3911 (2X)	23.3	23	22	132.1	107	115	16.9	9	8	0.0	
Michigan 300 (4X)	23.6	23	22	119.1	100	102	13.4	9	7	0.0	
Michigan 400 (4X)	23.7	24	23	116.6	101	108	14.1	8	7	0.0	
Warwick 292 (4X)	23.7	22	—	113.8	93	—	19.4	10	—	0.0	
Michigan 333-3X (3X)	23.9	24	23	138.0	117	127	2.4	1	1	0.0	
Pioneer 3956 (2X)	24.0	23	22	117.7	86	93	16.9	8	10	1.1	
Michigan 396-3X (3X)	24.1	23	23	145.8	123	130	9.3	5	5	0.0	
Asgrow RX42 (2X)	24.1	—	—	156.6	—	—	6.7	—	—	0.0	
DeKalb XL12 (2X)	24.3	23	—	126.0	102	—	4.1	3	—	0.6	
Cowbell SX002 (2X)	24.3	—	—	155.2	—	—	6.7	—	—	0.0	
Northrup King PX476 (3X)	24.3	—	—	125.5	—	—	6.1	—	—	0.0	
Anderson 3W-85 (3X)	24.4	—	—	111.4	—	—	9.6	—	—	0.0	
Funk Bros. G4252 (3X)	24.5	23	23	144.8	118	111	3.0	2	2	0.0	
Trojan TX94 (2X)	24.5	24	—	116.5	110	—	11.3	6	—	0.0	
Michigan 410-2X (2X)	24.5	25	25	149.0	131	144	0.6	0	1	0.6	
Blaney B-302 (2X)	25.0	—	—	144.5	—	—	1.1	—	—	0.0	
Warwick 405 (4X)	25.0	24	—	134.2	103	—	4.7	2	—	0.0	
King Row FS35 (3X)	25.1	—	—	105.6	—	—	23.0	—	—	0.0	
Pioneer 3937 (3X)	25.4	—	—	140.7	—	—	2.2	—	—	0.0	
Gutwein 10A (2X)	25.5	24	—	145.0	107	—	2.8	2	—	0.0	
Pioneer 3784 (2X)	25.5	24	—	149.5	124	—	1.7	2	—	0.0	
Cowbell SX102 (2X)	25.6	22	—	134.9	111	—	1.1	1	—	0.0	
Wolverine W166 (2X)	25.7	24	—	124.3	108	—	11.0	6	—	0.0	
Pioneer 3773 (2X)	25.8	26	25	151.9	123	131	7.7	4	6	0.0	
Anderson A-90 (4X)	25.9	—	—	133.6	—	—	14.7	—	—	0.0	
Northrup King PX525 (3X)	25.9	26	25	125.2	110	118	11.3	6	9	0.0	
Teweles SXT16 (2X)	26.0	—	—	138.2	—	—	2.8	—	—	0.0	
Warwick SL416 (2X)	26.0	24	—	116.3	97	—	1.7	1	—	0.0	
Teweles SXT61A (3X)	26.0	—	—</td								

TABLE 12. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		% Root lodging		1972
	2	3	Yrs	1972	2	3	Yrs	1972	2	3	
Renk RK9 (Sp.)	26.9	—	—	117.6	—	—	6.3	—	—	0.0	
Blaney B-501A (2X)	27.0	26	—	140.7	119	—	2.2	2	—	0.6	
Garno S92 (2X)	27.0	26	25	155.9	122	125	2.2	1	5	0.0	
*Blaney B-701 (2X)	27.3	—	—	161.3	—	—	4.8	—	—	0.0	
*Trojan TXS102 (2X)	27.5	26	—	166.1	141	—	3.3	2	—	0.0	
Michigan 500-2X (2X)	27.5	27	26	155.9	139	140	7.3	4	4	0.0	
Funk Bros. G4343 (2X)	27.5	—	—	142.8	—	—	1.1	—	—	0.0	
Muncy Chief H304 (4X)	27.7	—	—	138.1	—	—	3.4	—	—	0.0	
*Michigan 572-3X (3X)	27.7	26	26	171.7	143	147	3.8	2	3	0.0	
*Super Crost S25 (2X)	27.8	27	—	172.7	134	—	0.0	0	—	0.0	
DeKalb XL24 (2X)	27.9	26	26	137.1	114	119	1.7	1	4	0.0	
Bayless SX4395 (2X)	27.9	—	—	152.1	—	—	0.5	—	—	0.0	
*Pioneer 3780 (2X)	28.1	—	—	163.6	—	—	0.0	—	—	0.0	
*Garno S94 (2X)	28.1	—	—	162.2	—	—	3.7	—	—	0.0	
Northrup King PX519 (Sp.)	28.2	27	25	141.0	108	124	1.1	1	1	0.0	
*Blaney BX-AA (2X)	28.2	26	—	171.0	141	—	1.1	1	—	0.0	
Acco UC3300 (2X)	28.2	27	—	133.1	121	—	14.0	7	—	0.0	
Funk Bros. G4360	28.5	29	—	153.6	130	—	5.5	3	—	0.0	
Blaney B-AA (2X)	28.5	27	26	157.5	125	134	1.7	1	3	0.0	
Michigan 511-3X (3X)	28.5	27	26	155.6	135	142	5.1	3	5	0.0	
Pioneer 3729 (3X)	28.6	—	—	145.1	—	—	0.0	—	—	0.0	
*Bayless SX1795 (2X)	28.7	—	—	169.4	—	—	1.6	—	—	0.0	
*Asgrow RX58 (2X)	28.7	—	—	170.6	—	—	2.3	—	—	0.0	
*Jacques JX162A (2X)	28.7	27	—	167.7	142	—	0.0	1	—	0.5	
*Michigan 560-2X (2X)	28.7	27	—	162.9	139	—	0.0	0	—	0.0	
*Acco UC3301 (2X)	29.0	29	—	159.0	138	—	2.2	1	—	0.0	
*DeKalb XL22 (2X)	29.1	29	—	158.9	123	—	0.0	0	—	0.0	
*Northrup King PX50A (2X)	29.1	29	—	171.9	134	—	0.0	0	—	0.0	
Wolverine W176 (2X)	29.2	29	—	151.1	120	—	1.1	1	—	0.0	
*Bayless SX434 (2X)	29.3	—	—	162.6	—	—	1.1	—	—	0.0	
Wolverine W170 (2X)	29.4	28	26	148.2	122	124	0.5	0	3	0.0	
*Wolverine W172 (2X)	29.5	—	—	158.9	—	—	0.5	—	—	0.0	
DeKalb XL45A (2X)	29.5	29	—	137.8	126	—	3.9	2	—	0.0	
Garno S96 (2X)	29.7	27	26	155.8	121	129	2.1	1	4	0.0	
*Funk Bros. G4444 (2X)	29.7	28	27	169.7	143	150	0.6	1	2	0.0	
King Row KRX501 (2X)	29.8	28	—	156.2	116	—	1.7	3	—	1.1	
P.A.G. SX53 (2X)	30.0	29	—	129.9	123	—	5.0	3	—	0.0	
Acco UC3201 (2X)	30.2	—	—	156.8	—	—	0.6	—	—	0.0	
*Super Crost S27 (2X)	30.3	28	27	162.0	133	136	0.5	0	2	0.0	
Blaney B773 (3X)	31.1	—	—	154.5	—	—	1.1	—	—	0.0	
DeKalb XL44 (2X)	31.1	30	—	124.0	118	—	1.1	1	—	0.0	
Funk Bros. G4445 (2X)	31.2	—	—	154.9	—	—	1.6	—	—	0.5	
Muncy Chief SX550 (2X)	31.3	—	—	129.0	—	—	2.2	—	—	0.0	
*Muncy Chief SX440 (2X)	33.2	—	—	160.8	—	—	0.5	—	—	0.0	
Average	27.0	26	24	144.2	120	125	4.6	3	5	0.1	
Range	22.3	21	21	104.1	86	93	0.0	0	1	0.0	
	to	to	to	to	to	to	to	to	to	to	
	33.2	30	27	171.9	143	150	23.0	10	10	1.1	
Least significant difference	1.2	0.8	0.5	14.0	7	5					

*Significantly better than average yield in 1972.

	1972	1971	1970
Planted	April 28	May 3	May 4
Harvested	Oct. 31	Oct. 18	Oct. 24
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Beets	Corn	Corn
Population	20,200	19,800	20,100
Rows	30"	30"	30"
Fertilizer	130-60-60	168-108-54	146-96-48
Soil test: pH	7.5	7.1	7.5
P	53 (very high)	66 (very high)	50 (high)
K	321 (very high)	299 (high)	489 (very high)

Farm Cooperator: Walter Reinbold & Sons, Reese
County Extension Director: Ray Vasold, SaginawTable 13. NORTH CENTRAL MICHIGAN (Zone 3)
GRAIN — HURON COUNTY TRIAL
One, Two, Three Year Averages —
1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		% Root lodging		1972
	2	3	Yrs	1972	2	3	Yrs	1972	2	3	
Michigan 200 (4X)	20.2	21	20	69.3	81	77	6.6	4	3	0.0	
United 106 (2X)	22.4	—	—	62.8	—	—	30.8	—	—	2.5	
Michigan 275-2X (2X)	24.3	23	22	103.1	109	108	12.2	8	9	0.8	
Michigan 250 (4X)	24.7	24	23	95.6	107	104	24.8	13	10	0.0	
Northrup King PX20 (2X)	25.0	—	—	105.2	—	—	9.2	—	—	0.0	
Renk RK2 (2X)	25.2	—	—	60.2	—	—	32.8	—	—	0.8	
Michigan 280 (4X)	25.3	24	23	121.0	129	121	7.7	4	5	10.3	
Michigan 300 (4X)	25.5	25	24	114.2	117	116	2.4	1	2	12.2	
Super Crost S16 (2X)	25.6	25	—	102.9	118	—	15.1	8	—	6.1	
Oxy E16 (4X)	26.0	25	—	90.6	98	—	5.8	3	—	2.5	
Oxy E22 (4X)	26.2	—	—	109.6	—	—	2.4	—	—	0.8	
Northrup King PX446 (3X)	26.2	—	—	110.6	—	—	0.8	—	—	0.0	
Michigan 333-3X (3X)	26.3	26	—	117.1	133	—	3.0	2	—	0.0	
Pride R221 (3X)	26.5	24	—	103.9	107	—	0.0	0	—	1.6	
Pioneer 3911 (2X)	27.0	26	—	104.8	126	—	4.8	2	—	6.5	
Funk Bros. G4180 (3X)	27.1	25	—	88.6	101	—	6.8	3	—	1.6	
Pioneer 3909 (2X)	27.1	27	26	123.4	127	124	2.3	1	3	6.2	
Jacques JX62 (2X)	27.1	—	—	121.1	—	—	1.7	—	—	4.1	
Michigan 396-3X (3X)	27.2	26	25	121.3	135	137	3.4	2	1	0.0	
Funk Bros. G4252 (3X)	27.3	26	—	93.4	113	111	9.6	5	5	0.0	
Funk Bros. G4195 (3X)	27.3	—	—	119.4	—	—	1.6	—	—	6.3	
Wolverine W128 (2X)	27.4	—	—	93.3	—	—	1.6	—	—	0.0	
Asgrow RX42 (2X)	27.4	—	—	130.4	—	—	3.1	—	—	0.8	
Trojan TXS94 (2X)	27.6	—	—	111.5	—	—	5.4	—	—	0.0	
Oxy 362 (2X)	27.7	27	26	97.1	108	103	6.9	3	2	0.0	
Trojan TX100 (3X)	27.9	—	—	123.9	—	—	1.6	—	—	0.0	
Wolverine 59 (4X)	28.1	—	—	108.2	—	—	8.7	—	—	3.9	
Acco UC330 (2X)	28.2	—	—	112.7	—	—	10.6	—	—	0.0	
Acco U333 (3X)	28.4	—	—	92.9	—	—	14.7	—	—	0.8	
Michigan 400 (4X)	28.4	27	26	105.6	122	116	11.7	6	4	3.1	
*Renk RK6 (Sp.)	28.5	—	—	132.1	—	—	0.8	—	—	0.0	
DeKalb XL12 (2X)	28.6	28	—	120.8	131	—	2.4	1	—	0.0	
Michigan 410-2X (2X)	28.6	28	28	129.7	148	146	1.6	1	1	6.5	
Asgrow RX53 (2X)	28.9	—	—	128.4	—	—	0.0	—	—	2.3	
*Michigan 572-3X (3X)	29.3	29	—	140.7	155	—	4.7	2	—	2.1	
*Pioneer 3784 (2X)	29.4	—	—	137.9	—	—	0.0	—	—	0.0	
Acco UC1901 (2X)	29.5	—	—	99.5	—	—	0.8	—	—	0.8	
Migro M-1101 (2X)	30.1	—	—	123.2	—	—	10.3	—	—	0.8	
Wolverine W166 (2X)	30.2	—	—	107.9	—	—	9.8	—	—	0.0	
Asgrow RX43A (Sp.)	30.2	28	—	96.1	109	—	8.5	4	—	11.8	
Northrup King PX529 (3X)	30.2	—	—	129.5	—	—	0.0	—	—	0.0	
Pioneer X8351 (2X)	30.3	—	—	121.5	—	—	0.8	—	—	0.0	
Pioneer 3937 (2X)	30.6	—	—	104.9	—	—	3.9	—	—	2.3	
*DeKalb XL21 (2X)	30.6	29	—	130.6	140	—	2.3	1	—	0.0	
DeKalb XL22 (2X)	31.0	31	—	124.7	147	—	3.1	3	—	3.8	
Pioneer 3773 (2X)	31.0	—	—	127.6	—	—	1.6	—	—	0.0	
*DeKalb XL22B (Sp.)	31.0	30	—	143.9	150	—	3.0	2	—	0.0	
*Super Crost S27 (2X)	31.1	31	—	144.2	150	—	1.5	1	—	1.5	
*Asgrow RX58 (2X)	31.3	—	—	145.3	—	—</					

TABLE 13. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging		
	1972	2	3	1972	2	3	1972	Yrs	1972	Yrs	1972	Yrs
Average	28.8	28	25	117.8	133	121	5.2	2	4	2	2.0	
	20.2	21	20	60.2	81	77	0.0	0	0	0	0.0	
Range	to	to	to	to	to	to	to	to	to	to	to	
	32.5	32	30	149.5	161	147	32.8	13	10	12	12.2	
Least significant difference	1.1	0.8	0.6	12.8	7	5						

*Significantly better than average yield in 1972.

	1972	1971	1970
Planted	April 29	May 4	May 8
Harvested	Oct. 25	Oct. 14	Oct. 16
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	19,000	20,000	19,800
Rows	30"	30"	30"
Fertilizer	165-80-0	168-92-120	134-69-120
Soil test: pH	7.2	6.9	7.3
P	53 (very high)	72 (very high)	33 (medium)
K	255 (high)	292 (high)	220 (high)

Farm Cooperator: William McCrea, Bad Axe

County Extension Director: Lee Warschesky, Bad Axe

Table 14. NORTH CENTRAL MICHIGAN (Zone 3)
SILAGE — HURON COUNTY TRIAL
One, Two, Three Year Averages —
1972, 1971, 1970

TABLE 14. (Continued)

Hybrid (Brand — Variety)	% Moisture in ear			Tons per acre						% Ears in dry weight			
	1972	2	3	1972	Yrs	1972	Yrs	1972	Yrs	1972	Yrs	1972	Yrs
Michigan 396-3X (3X)	43.5	43	39	19.8	20.5	18.2	7.1	7.4	7.4	56	60	60	
Acco UC1901 (2X)	43.7	—	—	16.2	—	—	5.6	—	—	58	—	—	
Michigan 400 (4X)	43.9	43	40	18.2	19.0	17.4	6.2	6.8	6.8	53	56	56	
Trojan TXS94 (2X)	44.0	—	—	16.0	—	—	6.0	—	—	58	—	—	
Migro M-1101 (2X)	44.3	—	—	20.0	—	—	7.0	—	—	52	—	—	
Michigan 410-2X (2X)	44.3	44	41	19.7	22.7	21.2	7.0	7.8	8.1	55	57	57	
Northrup King PX529 (3X)	44.9	—	—	17.9	—	—	6.5	—	—	59	—	—	
Wolverine 59 (4X)	44.9	—	—	15.7	—	—	5.7	—	—	55	—	—	
Pioneer 3784 (2X)	44.9	—	—	18.6	—	—	7.0	—	—	56	—	—	
Pioneer 3937 (3X)	45.0	—	—	16.1	—	—	5.9	—	—	53	—	—	
Asgrow RX53 (2X)	45.0	—	—	18.4	—	—	6.6	—	—	54	—	—	
Pioneer X8351 (2X)	45.1	—	—	16.1	—	—	5.7	—	—	60	—	—	
Renk RK6 (Sp.)	45.4	—	—	18.9	—	—	6.9	—	—	53	—	—	
Super Crost S27 (2X)	45.5	46	42	20.8	22.3	19.5	7.3	7.9	7.5	55	54	56	
Acco UC2300 (2X)	46.4	—	—	18.5	—	—	6.6	—	—	56	—	—	
DeKalb XL12 (2X)	46.5	—	—	17.2	—	—	6.1	—	—	58	—	—	
Wolverine W166 (2X)	46.5	—	—	16.6	—	—	6.3	—	—	51	—	—	
Acco UJ333 (3X)	46.6	—	—	18.4	—	—	6.1	—	—	54	—	—	
DeKalb XL22B (Sp.)	46.8	46	—	17.9	20.1	—	6.5	7.2	—	52	54	—	
Trojan TXS102 (2X)	47.0	—	—	22.0	—	—	7.5	—	—	58	—	—	
Michigan 572-3X (3X)	47.2	46	—	21.8	23.8	—	7.3	8.0	—	57	55	—	
Pride R407 (2X)	47.2	49	—	22.6	24.0	—	7.4	7.8	—	53	53	—	
Pioneer 3773 (2X)	47.3	—	—	21.3	—	—	7.0	—	—	53	—	—	
Oxy 420 (2X)	47.4	48	43	19.8	20.0	17.9	6.6	7.0	7.0	52	55	57	
Michigan 500-2X (2X)	47.4	47	43	19.3	21.8	19.4	6.7	7.3	7.3	58	58	59	
DeKalb XL22 (2X)	47.7	47	—	20.1	20.4	—	7.0	7.4	—	54	56	—	
DeKalb XL21 (2X)	47.8	47	—	20.1	20.4	—	7.0	7.4	—	54	56	—	
Michigan 511-3X (3X)	47.8	47	—	21.7	22.0	—	7.5	7.6	—	55	54	—	
Asgrow RX-58 (2X)	47.9	—	—	19.1	—	—	7.1	—	—	52	—	—	
Funk Bros. G4444 (2X)	48.5	47	—	21.2	22.7	—	7.3	8.0	—	52	54	—	
Michigan 560-2X (2X)	48.6	47	—	21.0	22.3	—	7.1	7.5	—	56	57	—	
Northrup King PX519 (Sp.)	48.9	—	—	20.2	—	—	6.5	—	—	51	—	—	
Pioneer 3780 (2X)	48.9	—	—	18.8	—	—	6.6	—	—	50	—	—	
Garno S96 (2X)	49.8	49	—	21.8	22.0	—	6.9	7.0	—	49	50	—	
Trojan TXS104 (2X)	50.2	—	—	19.4	—	—	5.8	—	—	52	—	—	
Super Crost S25 (2X)	51.7	50	—	24.7	24.5	—	7.3	7.9	—	47	48	—	
Trojan TXS107 (2X)	53.3	—	—	21.4	—	—	6.4	—	—	48	—	—	
Jacques JX162A (2X)	54.2	51	—	22.6	22.1	—	7.0	7.2	—	46	47	—	
DeKalb XL44 (2X)	54.5	53	—	24.4	24.1	—	7.3	7.8	—	47	51	—	
Average	44.7	43	38	17.9	19.7	17.0	6.4	7.0	6.9	55	57	58	
	34.0	34	31	8.9	12.0	11.0	4.3	5.7	5.5	46	47	56	
Range	to	to	to	to	to	to	to	to	to	to	to	to	
	54.5	53	43	24.7	24.5	21.2	7.5	8.0	8.1	64	64	63	
Least significant difference	1.5	1.0	0.6	1.4	0.9	0.6	.6	.4	.3	3.1	2	2	

	1972	1971	1970
Planted	April 29	May 4	April 28
Harvested	Sept. 12	Sept. 7	Sept. 16
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	19,000	20,100	19,800
Rows	30"	30"	30"
Fertilizer	165-80-0	168-92-60	134-69-120
Soil test: pH	7.2	6.9	7.3
P	53 (very high)	72 (very high)	33 (medium)
K	255 (high)	292 (high)	220 (high)

Farm Cooperator: William McCrea, Bad Axe

County Extension Director: Lee Warschesky, Bad Axe

Table 15. NORTH CENTRAL MICHIGAN (Zone 3)
MONTCALM COUNTY TRIAL — Irrigated vs. Not Irrigated
One, Two, Three Year Averages — 1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture			Bushels per acre						% Stalk lodging					
	1972		2 Yrs	1972		2 Years		3 Years		1972		2 Years		3 Years	
	1972	2011	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig
Michigan 200 (4X)	23.9	23	21	98.5	90.5	101	62	109	71	14.1	3.2	14	2	10	3
Michigan 250 (4X)	25.7	25	24	108.3	98.2	123	61	128	77	13.7	12.3	13	8	12	8
Michigan 275-2X (2X)	26.2	25	24	126.3	99.9	137	65	138	76	15.5	1.5	11	1	9	3
Michigan 280 (4X)	26.2	25	24	136.6	123.4	145	75	145	82	12.7	12.4	10	7	9	8
Michigan 300 (4X)	26.4	25	24	138.4	126.9	145	76	142	84	17.0	8.1	11	5	9	6
Pioneer 3853 (4X)	27.5	—	—	153.4	128.5	—	—	—	—	15.8	2.2	—	—	—	—
Super Crost S14 (2X)	27.6	—	—	103.4	95.4	—	—	—	—	17.0	10.3	—	—	—	—
Acco UC1900 (2X)	27.8	26	—	112.1	99.5	136	68	—	—	24.4	14.5	14	7	—	—
Jacques JX863 (2X)	28.0	—	—	112.0	90.3	—	—	—	—	29.7	23.8	—	—	—	—
Michigan 333-3X (3X)	28.0	27	—	145.0	136.1	156	89	—	—	10.7	2.2	6	1	—	—
Northrup King PX476 (3X)	28.2	—	—	144.2	124.0	—	—	—	—	12.5	2.1	—	—	—	—
Funk Bros. G4180 (3X)	28.2	26	—	130.4	120.3	135	77	—	—	20.0	6.9	15	5	—	—
Funk Bros. G4263 (3X)	28.3	26	—	158.1	145.6	157	90	—	—	11.1	3.6	8	2	—	—
Cowbell SX002 (2X)	28.5	27	—	147.7	123.9	144	79	—	—	11.6	4.3	7	3	—	—
Northrup King PX20 (2X)	28.6	27	25	157.1	134.8	158	78	154	90	10.1	7.5	6	4	6	3
Michigan 396-3X (3X)	28.6	27	26	153.0	146.9	167	83	166	96	5.8	4.3	6	3	5	2
Blaney B-302 (2X)	28.7	—	—	138.6	129.3	—	—	—	—	2.9	8.6	—	—	—	—
Funk Bros. G4252 (3X)	29.2	—	—	156.1	128.3	—	—	—	—	10.9	1.5	—	—	—	—
DeKalb XL304 (3X)	29.2	—	—	127.7	105.7	—	—	—	—	15.1	16.7	—	—	—	—
Cowbell SX102 (2X)	29.4	27	26	135.1	125.2	141	81	143	90	10.9	5.0	9	3	7	4
Michigan 400 (4X)	29.4	27	26	142.1	129.8	142	78	141	86	10.2	9.1	11	5	7	4
Pioneer 3909 (2X)	30.1	28	27	136.8	127.1	143	80	148	87	5.8	3.7	5	2	4	3
DeKalb XL15A (2X)	30.3	28	—	135.5	122.7	154	76	—	—	20.9	12.5	14	6	—	—
Pioneer 3784 (2X)	30.5	28	—	155.0	127.6	170	70	—	—	7.1	2.9	5	2	—	—
Michigan 410-2X (2X)	30.5	29	28	154.6	143.5	177	87	183	100	6.4	3.0	8	2	6	1
Acco UC2301 (2X)	30.5	28	—	162.7	146.2	171	83	—	—	12.9	5.8	10	3	—	—
Midro M-1101 (2X)	30.6	—	—	151.5	137.6	—	—	—	—	3.0	0.7	—	—	—	—
Pioneer 3937 (3X)	30.8	—	—	150.7	121.7	—	—	—	—	7.3	2.9	—	—	—	—
Funk Bros. G4343 (2X)	30.8	—	—	175.0	142.3	—	—	—	—	8.8	1.5	—	—	—	—
Blaney B-55A (3X)	30.9	28	—	123.1	111.3	141	66	—	—	5.1	0.0	7	1	—	—
DeKalb XL24 (2X)	31.0	29	28	169.7	142.1	161	89	159	96	2.2	6.1	7	4	5	4
Northrup King PX519 (Sp.)	31.0	—	—	144.4	136.2	—	—	—	—	8.1	6.5	—	—	—	—
Jacques JX162A (2X)	31.1	30	—	158.4	127.2	172	81	—	—	14.7	4.5	15	3	—	—
Cowbell SX112 (2X)	31.1	—	—	170.3	140.1	—	—	—	—	19.4	2.9	—	—	—	—
Super Crost 1712 (2X)	31.2	—	—	155.3	138.7	—	—	—	—	8.6	2.2	—	—	—	—
1.2 Michigan 572-3X (3X)	31.2	29	—	186.3	156.5	184	91	—	—	10.0	4.5	7	3	—	—
Acco U334 (3X)	31.2	—	—	163.9	131.9	—	—	—	—	9.8	1.5	—	—	—	—
Northrup King PX529 (3X)	31.2	—	—	159.1	131.5	—	—	—	—	11.6	4.3	—	—	—	—
1.2Pride R290 (2X)	31.4	29	28	178.4	164.4	182	92	180	101	10.4	8.9	10	5	7	4
Pride R501 (3X)	31.4	—	—	158.7	131.3	—	—	—	—	9.2	0.7	—	—	—	—
Northrup King PX556 (3X)	31.5	—	—	149.6	120.8	—	—	—	—	6.4	5.9	—	—	—	—
Pioneer X8351 (2X)	31.9	—	—	141.2	117.2	—	—	—	—	9.4	2.2	—	—	—	—
Blaney B-501A (2X)	31.9	—	—	165.8	134.9	—	—	—	—	9.0	3.8	—	—	—	—
Blaney B-AA (2X)	32.0	29	27	156.6	146.2	171	90	156	94	9.6	7.2	6	5	5	5
Pioneer 3773 (2X)	32.0	—	—	154.0	140.7	—	—	—	—	13.1	17.9	—	—	—	—
1.2Pioneer 3780 (2X)	32.3	—	—	181.9	156.9	—	—	—	—	11.7	1.4	—	—	—	—
1.2Blaney BX-AA (2X)	32.3	30	—	177.9	154.5	181	93	—	—	5.8	7.2	5	4	—	—
Renk RK9 (Sp.)	32.6	—	—	142.0	122.8	—	—	—	—	14.6	14.1	—	—	—	—
1.2 Michigan 511-3X (3X)	32.6	31	—	188.5	172.8	199	101	—	—	5.8	4.3	4	2	—	—
1.2Funk Bros. G4444 (2X)	32.8	31	—	203.8	163.3	200	99	—	—	5.8	6.5	6	4	—	—
Pioneer 3729 (3X)	32.9	—	—	145.2	135.4	—	—	—	—	2.2	4.4	—	—	—	—
1.2Northrup King PX47E (2X)	33.0	—	—	187.2	159.3	—	—	—	—	3.0	2.2	—	—	—	—
Acco UC3300 (2X)	33.0	—	—	139.1	128.9	—	—	—	—	7.9	7.9	—	—	—	—
1.2Michigan 500-2X (2X)	33.0	30	29	178.2	159.3	181	94	177	105	6.6	0.7	7	0	5	1
1.2Acco UC3301 (2X)	33.4	—	—	182.7	149.8	—	—	—	—	3.6	2.9	—	—	—	—
1.2Michigan 560-2X (2X)	33.4	—	—	187.8	162.1	—	—	—	—	5.8	9.4	—	—	—	—
1Acco UC3201 (2X)	33.7	—	—	172.3	143.7	—	—	—	—	2.9	3.6	—	—	—	—
1.2Super Crost S27 (2X)	34.0	31	—	172.7	160.7	180	94	—	—	7.4	2.2	5	2	—	—
1.2P.A.G. SX69 (2X)	34.1	31	—	201.7	161.4	195	96	—	—	3.4	0.8	4	0	—	—
1.2Super Crost S25 (2X)	35.6	31	—	185.4	152.2	187	84	—	—	6.7	8.8	6	5	—	—
Average	30.4	28	26	154.8	134.6	160	83	151	89	10.1	6.0	8	3	7	4
Range	23.9	23	21	98.5	90.5	101	61	109	71	2.2	0.0	4	0	4	1
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	35.6	32	29	203.8	172.8	200	101	183	105	29.7	23.8	15	8	12	8
Least significant difference	1.1	0.7	0.5	14.4	12.5	7	6	5	5	—	—	—	—	—	—

2Significantly better than average yield, not irrigated, 1972

1Significantly better than average yield, irrigated, 1972

	1972	1971	1970
Planted	May 5	May 6	May 8
Harvested	Oct. 25	Oct. 29	Oct. 16
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	20,100	20,300	19,900
Rows	30"	30"	30"
Fertilizer	258-145-145	160-140-140	213-160-160
Soil test: pH	5.5	6.0	6.3
P	420 (very high)	340 (very high)	246 (very high)
K	178 (medium)	246 (high)	255 (high)
Irrigation	6"	12.5"	5.5"

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

One, Two, and Three Year Averages —
1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging		1972	
	2 Yrs		3 Yrs		2 Yrs		3 Yrs			
	1972	1971	1972	1971	1972	1971	1972	1971		
Michigan 200 (4X)	23.1	21	78.6	86	86	1.9	2	2	0.0	
Michigan 250 (4X)	24.6	24	23	94.6	103	104	5.8	3	4	0.0
DeKalb XL311 (3X)	24.9	24	—	95.2	97	—	0.6	2	—	2.5
Wolverine 24 (4X)	25.3	—	—	78.7	—	—	0.6	—	—	5.7
Michigan 275-2X (2X)	25.4	24	23	102.5	111	109	2.0	1	3	4.1
Funk Bros. G5150 (4X)	26.0	25	24	70.5	84	84	8.0	4	5	0.6
Michigan 280 (4X)	26.1	24	23	108.4	116	110	6.5	4	5	0.0
King Row KR85 (4X)	27.2	25	—	72.8	85	—	3.8	4	—	0.0
*Michigan 333-3X (3X)	27.4	26	—	114.6	119	—	0.6	0	—	1.9
Funk Bros. G4180 (3X)	27.6	25	—	82.5	96	—	3.2	2	—	1.9
Pride R221 (3X)	27.9	25	—	89.2	89	—	4.3	3	—	0.0
King Row KR90 (4X)	28.1	—	—	71.9	—	—	4.7	—	—	0.0
Michigan 300 (4X)	28.1	26	24	109.0	109	110	3.0	2	4	6.1
*Michigan 396-3X (3X)	28.4	27	26	119.7	120	119	2.0	1	2	4.0
Pioneer 3956 (2X)	28.5	—	—	104.4	—	—	1.8	—	—	0.6
Michigan 400 (4X)	28.5	27	26	101.1	112	108	0.0	0	2	0.0
DeKalb XL112 (2X)	28.9	—	—	96.9	—	—	1.8	—	—	0.6
Pioneer 3911 (2X)	29.1	27	26	96.5	110	100	4.2	2	4	0.6
DeKalb XL115A (2X)	29.2	—	—	98.8	—	—	1.2	—	—	0.0
*Pioneer 3909 (2X)	29.3	28	27	116.4	112	112	0.0	0	1	2.3
DeKalb XL304 (3X)	29.9	—	—	99.9	—	—	4.1	—	—	0.0
Pioneer X8351 (2X)	29.9	—	—	97.8	—	—	5.5	—	—	0.0
*Michigan 410-2X (2X)	30.0	28	27	114.6	121	123	4.4	3	2	0.0
Cowbell SX102 (2X)	30.0	—	—	103.1	—	—	1.2	—	—	0.0
Pioneer 3937 (3X)	30.1	—	—	100.8	—	—	0.6	—	—	4.1
Funk Bros. G4252 (3X)	30.2	27	25	95.9	110	104	5.6	3	3	2.5
Cowbell SX002 (2X)	30.2	28	—	107.6	115	—	2.5	1	—	2.5
Pride R200A (2X)	30.8	28	26	89.4	94	98	2.4	2	3	1.8
Migro M-1101 (2X)	30.9	—	—	92.6	—	—	1.9	—	—	0.6
*Cowbell SX85 (2X)	31.1	27	—	113.0	108	—	6.0	4	—	0.0
Bayless X219 (Sp.)	31.2	—	—	93.5	—	—	4.2	—	—	0.6
Pioneer 3773 (2X)	32.1	30	29	104.1	110	109	2.4	1	2	2.4
*Michigan 560-2X (2X)	32.2	—	—	111.4	—	—	2.0	—	—	1.3
Michigan 500-2X (2X)	32.4	—	—	110.1	—	—	4.7	—	—	0.0
*Michigan 572-3X (3X)	32.4	—	—	113.8	—	—	2.4	—	—	0.0
Michigan 511-3X (3X)	32.4	—	—	100.7	—	—	1.8	—	—	1.2
*Pioneer 3780 (2X)	32.7	—	—	119.9	—	—	1.8	—	—	0.0
Funk Bros. G4444 (2X)	33.5	—	—	106.0	—	—	1.8	—	—	0.0
Average	29.0	26	25	99.1	105	106	2.9	2	3	1.2
Range	23.1	21	21	70.5	84	84	0.0	0	1	0.0
	to	to	to	to	to	to	to	to	to	to
	33.5	30	29	119.9	121	123	9.5	4	5	6.1
Least significant difference	0.9	0.7	0.6	11.3	7	5				

*Significantly better than average yield in 1972.

	1972	1971	1970
Planted	May 10	May 8	April 29
Harvested	Nov. 3	Oct. 26	Oct. 15
Soil type	Nester loam	Nester loam	Nester loam
Previous crop	Corn	Corn	Corn
Population	19,400	19,900	19,600
Rows	30"	30"	30"
Fertilizer	116-72-20	118-72-20	122-48-117
Soil test: pH	6.0	5.7	5.9
P	69 (very high)	125 (very high)	41 (high)
K	286 (high)	386 (very high)	191 (high)

Farm Cooperator: Bob and Tom Campbell, Scottville (1972);
William Courtland, Scottville (1971 and 1970)

County Extension Director: Dean Raven, Scottville

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

One and Two Year Averages — 1972 and 1971

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging		% Root lodging		1972	
	1972		2 Yrs		1972		2 Yrs			
	1972	1971	1972	1971	1972	1971	1972	1971		
DeKalb DK007 (4X)	24.5	—	103.8	—	4.6	—	0.0	—		
Michigan 200 (4X)	24.8	25	109.5	100	1.2	1	0.0	—		
A.E.S. 202 (4X)	24.9	24	102.2	95	3.1	2	0.0	—		
Jacques 755E (4X)	26.1	27	75.1	82	10.7	6	0.0	—		
Trojan M70 (4X)	26.5	—	83.2	—	1.7	—	3.4	—		
Trojan M80 (4X)	26.8	27	102.8	89	7.1	4	1.2	—		
Michigan 275-2X (2X)	26.9	28	114.0	105	3.7	2	0.6	—		
Northrup King KE408 (4X)	26.9	—	87.0	—	9.0	—	0.0	—		
Garno S70 (2X)	27.4	—	109.0	—	0.0	—	0.0	—		
Michigan 250 (4X)	27.5	28	106.8	101	6.7	3	0.0	—		
*Northrup King PX420 (3X)	28.0	—	119.2	—	1.1	—	0.0	—		
Jacques JX902 (2X)	28.1	30	107.1	97	0.0	0	0.0	—		
Pride R121 (3X)	28.4	29	92.8	96	1.2	1	0.0	—		
*Michigan 280 (4X)	28.4	29	116.8	108	6.5	4	1.1	—		
*Michigan 300 (4X)	28.5	29	117.8	107	3.4	2	0.0	—		
DeKalb DK22 (4X)	28.6	—	81.5	—	0.6	—	0.6	—		
Jacques JX863 (3X)	28.6	28	102.0	99	0.6	0	0.0	—		
Pride R113 (3X)	28.9	—	99.7	—	2.4	—	0.0	—		
Funk Bros. G5150 (4X)	29.1	28	114.3	104	1.2	1	0.0	—		
*Jacques JX22 (2X)	29.2	29	116.9	100	1.7	1	0.0	—		
*Michigan 333-3X (3X)	29.6	—	119.7	—	0.0	—	0.0	—		
Trojan TX85 (2X)	29.8	28	101.2	97	1.7	1	0.0	—		
Pioneer 3956 (2X)	30.6	31	111.3	106	2.2	1	0.5	—		
*Garno S85 (2X)	30.8	—	117.0	—	0.6	—	0.0	—		
Pioneer 3873 (4X)	30.9	28	110.8	92	3.5	3	0.0	—		
*DeKalb XL304 (3X)	31.3	—	123.0	—	1.6	—	1.1	—		
Pride X1191 (2X)	31.3	—	109.1	—	0.0	—	0.0	—		
Pioneer 3959 (4X)	31.9	—	115.4	—	0.6	—	0.0	—		
*Michigan 396-3X (3X)	32.0	33	119.0	109	0.0	0	0.0	—		
Garno S87 (2X)	34.6	—	101.1	—	1.2	—	0.6	—		
Pioneer 385 (4X)	35.8	—	109.6	—	2.8	—	0.0	—		
Pioneer 3937 (3X)	36.3	—	101.7	—	0.6	—	0.0	—		
Garno S90 (2X)	39.4	—	98.5	—	0.6	—	0.0	—		
Average	29.4	28	106.2	99	2.4	2	0.2	—		
Range	24.5	24	75.1	82	0.0	0	0.0	—		
	to	to	to	to	to	to	to	to		
	39.4	33	123.0	109	10.7	6	3.4	—		
Least significant difference	1.2	0.8	10.5	6						

*Significantly better than average yield in 1972.

	1972	1971
Planted	May 18	May 18
Harvested	Nov. 8	Oct. 28
Soil type	Coventry Newaygo loam	Emmett sandy loam
Previous crop	Corn	Corn
Population	19,400	19,000
Rows	30"	38"
Fertilizer	36-96-0	106-40-40
Soil test: pH	6.8	6.2
P	249 (very high)	59 (very high)
K	449 (very high)	187 (high)
Farm Cooperators:	George Svec, Buckley (1972)	
	Karl Wagner, Grawn (1971)	
County Extension Director:	George McManus, Traverse City	

Table 18. NORTHERN MICHIGAN (Zone 4)
SILAGE — MISSAUKEE COUNTY TRIAL
One and Two Year Averages — 1972 and 1971

Hybrid (Brand — Variety)	% Moisture in ear		Tons per acre				% Ears in dry weight	
	2 1972 Yrs		Green weight 2 1972 Yrs		Dry weight 2 1972 Yrs		2 1972 Yrs	
	2 1972	Yrs	1972	Yrs	1972	Yrs	1972	Yrs
Jacques 755E (4X)	36.6	43	15.5	14.6	5.5	4.8	59	60
Northrup King PX420 (3X)	36.9	—	16.6	—	5.6	—	59	—
Trojan M70 (4X)	36.9	—	16.4	—	5.9	—	56	—
Northrup King KE408 (4X)	38.5	—	16.5	—	5.9	—	57	—
DeKalb DX007 (4X)	39.8	44	19.2	16.8	6.3	5.3	57	59
A.E.S. 202 (4X)	39.9	42	18.2	15.9	5.9	5.2	57	60
DeKalb DK22 (4X)	40.0	44	16.8	15.6	5.5	4.8	56	57
Michigan 200 (4X)	41.3	44	18.9	16.7	6.3	5.5	58	58
Jacques JX863 (3X)	42.9	47	19.5	16.9	6.3	5.3	59	60
Trojan M80 (4X)	42.2	45	15.9	14.0	5.4	4.6	60	60
Trojan TX85 (3X)	42.7	47	20.2	17.3	6.1	5.1	53	54
Jacques JX22 (2X)	44.0	47	18.2	16.1	5.4	4.7	54	57
Michigan 275-2X (2X)	44.6	49	19.7	17.3	6.2	5.4	55	56
Funk Bros. G5150 (4X)	45.4	48	16.1	14.2	5.4	4.6	61	58
Michigan 250 (4X)	46.1	52	20.5	18.8	6.5	5.4	52	51
Pioneer 3873 (4X)	48.0	52	19.6	17.2	5.8	5.0	49	52
DeKalb XL304 (3X)	49.0	—	23.5	—	6.9	—	54	—
Michigan 280 (4X)	49.1	52	23.2	20.0	7.0	5.9	54	55
Jacques JX902 (2X)	49.1	52	17.3	15.9	5.4	4.8	53	53
Michigan 300 (4X)	49.7	54	23.9	21.3	7.0	5.8	51	52
Funk Bros. G4180 (3X)	50.9	—	19.7	—	5.3	—	48	—
Michigan 333-3X (3X)	51.4	—	23.0	—	7.0	—	49	—
Pioneer 3937 (3X)	52.0	—	21.9	—	6.5	—	46	—
Funk Bros. G4082 (3X)	52.5	51	19.2	16.8	5.7	5.0	51	53
Pride R221 (3X)	53.5	—	19.8	—	5.7	—	48	—
Michigan 396-3X (3X)	53.6	57	21.7	20.5	6.5	5.5	48	51
Northrup King PX442 (3X)	54.9	—	20.5	—	6.2	—	45	—
Taylor Evans Profitmaker	56.8	—	21.5	—	6.0	—	46	—
Taylor Evans Hastyemaker	56.9	—	19.8	—	5.5	—	44	—
Average	46.3	48	19.5	17.2	6.1	5.2	53	58
Range	36.6	42	15.5	14.0	5.3	4.6	44	60
	to	to	to	to	to	to	to	to
	56.9	57	23.9	21.3	7.0	5.9	61	51
Least significant difference	1.6	1.1	1.1	0.7	.5	.4	3	3

	1972	1971
Planted	May 19	May 12
Harvested	Sept. 14	Sept. 10
Soil type	Kent silt loam	Kent silt loam
Previous crop	Corn	Grass sod
Population	18,600	19,400
Rows	28"	30"
Fertilizer	224-96-96	227-108-108

Farm Cooperator: Robert DeBoer, M.S.U. Lake City Experiment Station, Lake City
 County Extension Director: Vern VandePol, Lake City
 Cooperator: L. V. Nelson, Crop and Soil Sciences Dept., M.S.U.

Table 19. NORTHERN MICHIGAN (Zone 4)
GRAIN — ALPENA COUNTY TRIAL
One, Two, and Three Year Averages —
1971, 1970, 1969
No results from 1972

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging	
	2 1971 Yrs		3 1971 Yrs		2 1971 Yrs	
	2 1971	Yrs	3 1971	Yrs	2 1971	Yrs
Trojan TX68	22.0	30	31	77.5	85	71
Michigan 200 (4X)	24.4	25	29	146.8	130	124
A.E.S. 202 (4X)	25.4	26	29	144.2	130	123
Renk R70 (3X)	25.9	—	—	124.7	—	—
Seneca XR17 (2X)	25.9	—	—	148.1	—	—
Warwick SL209 (2X)	26.4	—	—	147.7	—	—
Funk Bros. G4082 (3X)	26.4	—	—	157.3	—	—
Northrup King PX442 (Sp.)	28.7	32	35	143.3	120	124
Funk Bros. G5150 (4X)	29.0	—	—	126.0	—	—
*Michigan 250 (4X)	29.0	29	33	166.3	146	129
DeKalb XL302 (3X)	29.3	—	—	142.4	—	—
Seneca XX155 (3X)	29.5	31	34	144.0	126	125
Northrup King PX446 (Sp.)	29.5	34	37	132.4	115	117
Pioneer 3873 (4X)	29.7	28	—	137.6	119	—
DeKalb XT138 (4X)	30.0	33	35	122.5	106	107
*Michigan 280 (4X)	30.1	30	34	170.7	148	144
Warwick 214 (4X)	30.1	—	—	147.5	—	—
DeKalb DK22 (4X)	30.4	32	—	147.6	131	—
Jacques 854E (4X)	30.6	—	—	131.0	—	—
*Michigan 275-2X (2X)	31.0	31	34	182.9	150	146
Renk Ex. 2 (2X)	31.4	—	—	146.3	—	—
Pioneer 3956 (2X)	31.6	37	39	155.9	129	124
Bayless SX210 (2X)	32.2	—	—	154.2	—	—
*Michigan 300 (4X)	32.9	36	38	197.2	146	139
Pride 137 (4X)	33.2	36	38	139.4	120	121
Michigan 380-3X (3X)	33.7	—	—	151.2	—	—
*Michigan 396-3X (3X)	34.4	—	—	176.5	—	—
Jacques 951E (4X)	36.0	32	—	132.9	116	—
Average	29.6	31	34	146.2	126	123
Range	22.0	24	29	77.5	85	71
	to	to	to	to	to	to
	36.0	37	39	197.2	150	146
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
Rows	28"	28"	28"
Population	20,200	19,700	19,200
Fertilizer	32-128-64	121-84-84	200-80-136

Farm Cooperator: William Bartow, Alpena

County Extension Director: A. H. Nickels, Alpena

Table 20 NORTHERN MICHIGAN (Zone 4)
SILAGE — ALPENA COUNTY TRIAL
One, Two, and Three Year Averages —
1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture in ear			Tons per acre			% Ears in dry weight		
				Green weight		Dry weight			2
	1972	Yrs	Yrs	1972	Yrs	Yrs	1972	Yrs	3
Northrup King									
KE408 (4X)	54.3	—	—	15.2	—	—	3.8	—	52
Warwick SL209 (2X)	54.8	54	—	15.6	20.5	—	4.1	5.4	52
Trojan M70 (4X)	55.3	—	—	17.1	—	—	3.8	—	50
Trojan TX68 (3X)	55.4	49	45	14.0	14.1	14.2	3.2	3.9	4.1
A.E.S. 202 (4X)	55.5	53	49	21.9	22.9	22.0	5.4	5.9	5.9
DeKalb DK22 (4X)	56.1	55	52	18.3	19.6	19.8	4.9	5.2	5.2
Pride R102 (3X)	57.7	—	—	22.4	—	—	5.4	—	46
Funk Bros. G4082 (3X)	58.1	56	—	22.7	24.3	—	6.2	6.6	44
Michigan 200 (4X)	58.3	56	51	22.4	23.7	22.8	5.7	6.2	6.2
Pride R113 (3X)	59.3	—	—	20.6	—	—	4.5	—	55
Northrup King									
PX420 (3X)	59.4	—	—	22.1	—	—	5.1	—	48
Warwick TX22 (Sp.)	59.4	—	—	25.2	—	—	5.6	—	52
Renk RK2 (2X)	60.2	59	—	20.5	22.3	—	4.4	5.2	51
Funk Bros. G5150 (4X)	60.3	59	—	21.1	22.9	—	5.3	5.8	45
DeKalb DK007 (4X)	60.4	—	—	20.9	—	—	4.9	—	45
Warwick 215 (4X)	60.4	—	—	24.9	—	—	5.5	—	46
Northrup King									
PX446 (3X)	61.8	62	57	25.8	25.2	26.0	6.2	6.1	6.6
Michigan 275-2X (2X)	62.0	60	56	22.9	25.2	25.2	5.8	6.6	6.5
Pioneer 3873 (4X)	62.3	60	56	25.2	25.4	24.9	6.2	6.4	6.4
Pride R121 (3X)	63.5	—	—	25.8	—	—	5.3	—	50
Michigan 280 (4X)	63.6	62	56	26.6	28.3	28.0	6.0	6.4	6.7
Michigan 250 (4X)	63.8	62	57	25.3	26.7	26.0	5.6	6.2	6.2
Jacques 854E (4X)	63.9	61	—	24.9	24.2	—	6.0	5.8	41
Michigan 300 (4X)	65.0	63	59	26.0	28.4	28.4	5.9	6.7	6.7
Northrup King									
PX442 (3X)	66.3	63	58	25.1	24.4	24.1	5.2	5.6	5.8
Jacques 951E (4X)	66.4	64	59	20.3	23.0	23.9	4.7	5.4	5.8
Pride 137 (4X)	67.5	63	59	28.3	27.2	26.4	5.7	6.2	6.3
Michigan 333-3X (3X)	67.5	—	—	29.0	—	—	6.5	—	43
DeKalb XL304 (3X)	67.8	—	—	28.1	—	—	6.2	—	42
Michigan 396-3X (3X)	68.0	66	—	27.2	28.3	—	6.0	6.5	42
Average	61.5	59	55	22.8	24.1	24.0	5.2	5.9	6.0
Range	54.3	49	45	14.0	14.1	14.2	3.2	3.9	4.1
	to	to	to	to	to	to	to	to	45
	68.0	66	59	29.0	28.4	28.4	6.5	6.7	6.7
							55	55	58
Least significant difference	1.7	1.2	1.0	1.4	0.8	0.5	0.5	0.4	0.3
	3	3	2						
	1972		1971		1970				
Planted	May 18		May 14		May 12				
Harvested	Sept. 13		Sept. 9		Sept. 18				
Soil type	Onaway loam		Onaway loam		Onaway loam				
Previous crop	Corn		Cucumbers		Corn				
Population	18,700		20,400		19,700				
Rows	28"		28"		28"				
Fertilizer	224-152-48		232-128-212		121-84-84				

Farm Cooperator: William Bartow, Ossineke

County Extension Director: A. H. Nickels, Alpena

Cooperator: L. V. Nelson, Crop and Soil Sciences Dept., M.S.U.

Table 21. NORTHERN MICHIGAN (Zone 4)
SILAGE — ALGER COUNTY TRIAL
One, Two, and Three Year Averages —
1972, 1971, 1970

Hybrid (Brand — Variety)	% Moisture in ear			Tons per acre			% Ears in dry weight		
				Green weight		Dry weight			2
	1972	Yrs	Yrs	1972	Yrs	Yrs	1972	Yrs	3
Trojan TX68 (3X)	62.1	51	47	9.1	9.2	8.8	2.5	3.2	3.4
DeKalb DK22 (4X)	62.7	53	51	12.0	12.9	12.5	3.6	4.1	4.2
Wisconsin 240 (4X)	63.4	54	50	13.3	12.3	11.6	3.9	4.2	4.1
Northrup King									
KE408 (4X)	64.4	—	—	14.1	—	—	4.1	—	38
Pride R102 (3X)	64.5	—	—	11.3	—	—	3.2	—	38
A.E.S. 202 (4X)	64.6	54	52	14.9	13.5	12.9	4.0	4.3	4.5
Trojan M70 (4X)	66.8	—	—	11.2	—	—	3.3	—	39
Wisconsin 253 (3X)	66.9	55	52	13.1	12.6	12.2	3.4	3.7	3.9
Northrup King									
PX420 (3X)	67.9	—	—	12.1	—	—	3.5	—	32
Northrup King KC3 (4X)	67.9	56	53	13.5	12.4	11.7	3.6	3.8	3.9
Michigan 200 (4X)	67.9	57	54	14.5	13.9	13.8	3.9	4.2	4.4
Wisconsin 233 (3X)	71.0	58	53	12.5	10.7	11.1	3.3	3.2	3.6
Wisconsin 243 (3X)	72.1	58	53	12.3	11.9	11.2	3.0	3.5	3.5
Funk Bros. G4082 (3X)	73.5	60	57	13.7	13.1	12.2	3.8	3.9	3.9
Pioneer 3873 (4X)	74.5	62	58	15.3	13.1	13.0	4.1	4.0	4.4
Tweeles 201 (4X)	74.6	62	58	12.1	11.5	11.7	3.1	3.3	3.7
DeKalb DK007 (4X)	75.0	61	—	13.3	11.5	—	3.6	3.5	—
Michigan 275-2X (2X)	76.6	63	58	14.1	13.6	12.8	3.6	4.2	4.3
Michigan 250 (4X)	76.7	65	61	13.0	13.1	14.6	3.3	3.8	4.4
Michigan 280 (4X)	77.6	65	61	15.1	14.1	15.3	3.9	4.1	4.6
Michigan 300 (4X)	78.2	66	61	15.2	15.7	16.1	4.1	4.5	4.9
Average	69.7	59	55	13.2	12.7	12.8	3.5	3.9	4.1
	62.1	51	47	9.0	9.2	8.8	2.5	3.2	3.4
Range	to	to	to	to	to	to	to	to	to
	78.2	66	61	15.3	15.7	16.1	4.1	4.5	4.9
Least significant difference	2.0	1.6	1.2	1.4	0.8	0.6	.5	.4	.3
	3	3	2						
	1972		1971		1970				
Planted	May 26		May 27		May 21				
Harvested	Oct. 10-20		Oct. 13-15		Sept. 30-Oct. 8				
Soil type	Chatham		Chatham		Chatham				
Previous crop	stony loam		stony loam		stony loam				
Population	Corn		Corn		Corn				
Rows	18,300		16,900		17,200				
Rows	36"		36"		36"				
Fertilizer	48-48-48		46-46-46		118-72-72				
Soil test: pH	7.4								
P	108 (very high)								
K	354 (very high)								

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

ACCO Seed, Box 9, Belmond, Iowa

- Acco U333 (3X) (6, 9, 10, 13, 14)
- Acco U334 (3X) (7, 8, 15)
- Acco U348 (3X) (1, 2, 3, 4)
- Acco U369 (3X) (3)
- Acco U378 (3X) (3)
- Acco DC393 (4X) (1)
- Acco DC441 (4X) (1)
- Acco UC1900 (2X) (9, 10, 15)
- Acco UC1901 (2X) (8, 13, 14)
- Acco UC2300 (2X) (9, 10, 13, 14)
- Acco UC2301 (2X) (4, 6, 7, 8, 15)
- Acco UC2900 (2X) (6)
- Acco UC2901 (2X) (7, 8, 9, 10)
- Acco UC3201 (2X) (1, 3, 4, 5, 7, 8, 9, 10, 12, 15)
- Acco UC3300 (2X) (1, 3, 4, 6, 7, 9, 10, 12, 15)
- Acco UC3301 (2X) (1, 2, 5, 6, 8, 9, 10, 12, 15)
- Acco UC3600 (2X) (1, 4)
- Acco UC4400 (2X) (1)
- Acco UC4561 (2X) (1, 2, 5)
- Adler's Seeds, Inc., Rt. 1, Sharpsville, Ind.
- Adler 23X (2X) (1, 2, 3, 4, 5)
- Adler 413 (3X) (1, 2, 3, 4, 5)

Andersons, P.O. Box 119, Maumee, Ohio

Anderson AX-3 (2X) (9, 10)
Anderson AX-5 (2X) (1)
Anderson SW-35 (3X) (12)
Anderson A-90 (4X) (12)
Anderson A-95 (4X) (10)
Anderson A-100 (4X) (1)
Anderson 3W-100 (3X) (1)

Asgrow Seed Co., Oxford, Ind.

Asgrow RX35A (3X) (11)
Asgrow RX42 (2X) (11, 12, 13, 14)
Asgrow RX43A (Sp.) (11, 13, 14)
Asgrow RX53 (2X) (2, 3, 4, 9, 10, 11, 12, 13, 14)
Asgrow RX58 (2X) (2, 3, 4, 9, 10, 11, 12, 13, 14)
Bayless Hybrids, Inc., Rt. 1, Bluffton, Ind.

Bayless SX210 (2X) (19)
Bayless X219 (Sp.) (12, 17)
Bayless X219-3 (3X) (12)
Bayless X3415 (3X) (3)
Bayless X434 (2X) (2, 3, 4, 12)
Bayless X3485 (3X) (2, 3, 4, 5)
Bayless SX1795 (2X) (1, 2, 3, 4, 5, 12)
Bayless SX3771 (2X) (3)
Bayless SX4395 (2X) (3, 4, 6, 12)

Blaney Farms, Inc., Rt. 4, Madison, Wis.

Blaney B-AA (2X) (1, 2, 7, 9, 10, 11, 12, 15)
Blaney BX-AA (2X) (1, 12, 15)
Blaney B55A (2X) (1, 2, 11, 15)
Blaney B302 (2X) (2, 8, 11, 12, 15)
Blaney BS01A (2X) (2, 8, 11, 12, 15)
Blaney B601 (Sp.) (2)
Blaney B701 (2X) (1, 2, 9, 10, 12)
Blaney B773 (3X) (1, 2, 9, 10, 12)

Cowbell Seeds, Inc., 156 W. Superior St., Wayland, Mich.

Cowbell SX002 (2X) (4, 8, 11, 12, 15, 16)
Cowbell SX85 (2X) (16)
Cowbell SX102 (2X) (3, 4, 6, 7, 8, 11, 12, 15, 16)
Cowbell SX112 (2X) (2, 7, 9, 10, 11, 15)
Cowbell SX114 (2X) (2, 3, 4, 5, 9, 10)
Cowbell SX205 (2X) (1, 2, 3, 4, 5, 7, 8, 9, 10)
Cowbell SX209 (2X) (3, 9, 10)
Cowbell 3X314 (3X) (4, 9, 10)
Cowbell 3X300 (3X) (8)

DeKalb Ag Research, Inc., DeKalb, Ill.

DeKalb DK007 (4X) (17, 18, 20, 21)
DeKalb DK22 (4X) (17, 18, 19, 20, 21)
DeKalb XL12 (2X) (7, 8, 9, 10, 11, 12, 13, 14, 16)
DeKalb XL15A (2X) (15, 16)
DeKalb XL21 (2X) (9, 10, 11, 13, 14)
DeKalb XL22 (2X) (2, 5, 8, 12, 13, 14)
DeKalb XL22B (2X) (7, 8, 9, 10, 11, 12, 13, 14)
DeKalb XL24 (2X) (4, 7, 8, 9, 10, 12, 15)
DeKalb XL44 (2X) (1, 2, 3, 5, 12, 13, 14)
DeKalb XL45A (2X) (1, 2, 3, 4, 7, 8, 9, 10, 12)
DeKalb XL302 (3X) (19)
DeKalb XL304 (3X) (11, 15, 16, 17, 18, 20)
DeKalb XL311 (3X) (16)
DeKalb XL316 (3X) (9, 10)
DeKalb XL347 (3X) (1)
DeKalb XT138 (4X) (19)

Merrill Eady, Funk Seeds International, Inc., Grant, Michigan

Funk Bros. G4082 (3X) (18, 19, 20, 21)
Funk Bros. G4180 (3X) (11, 13, 14, 15, 16, 18)
Funk Bros. G4240 (2X) (7)
Funk Bros. G4252 (3X) (4, 7, 8, 9, 10, 12, 13, 14, 15, 16)
Funk Bros. G4263 (3X) (4, 15)
Funk Bros. G4343 (2X) (2, 4, 7, 9, 10, 12, 15)
Funk Bros. G4360 (3X) (1, 2, 12)
Funk Bros. G4444 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Funk Bros. G4445 (2X) (1, 2, 3, 5, 12)
Funk Bros. G5150 (4X) (16, 17, 18, 19, 20)
Funk Bros. G4195 (3X) (7, 9, 10, 13, 14)

Edward J. Funk and Sons, Kentland, Ind.*

Super Crost S14 (2X) (15)
Super Crost S19 (2X) (1, 2)
Super Crost S25 (2X) (1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 13, 14, 15)
Super Crost S27 (2X) (1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 13, 14, 15)
Super Crost S28 (2X) (1, 2, 3, 4, 6, 9, 10)
Super Crost S29 (2X) (1, 3, 4, 9, 10)
Super Crost S41 (2X) (1, 2, 5, 9, 10)
Super Crost S63 (2X) (1, 2, 3, 4)
Super Crost S65 (2X) (2, 3)
Super Crost 1712 (2X) (1, 3, 9, 10, 12, 15)
Super Crost 1782 (2X) (1)
Super Crost 2772 (2X) (1, 2, 5, 9, 10)
Super Crost 42442 (2X) (1, 2, 3, 4, 5)

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

Garno Seed Co., Inc., 8400 Deerfield Rd., Palmyra, Mich.

Garno S70 (2X) (11, 17)
Garno S85 (2X) (11, 17)
Garno S87 (2X) (17)
Garno S90 (2X) (11, 17)
Garno S92 (2X) (12)
Garno S94 (2X) (12)
Garno S96 (2X) (1, 5, 9, 10, 12, 13, 14)
Garno S106 (2X) (5, 9, 10)

Fred Gutwein & Sons, Inc., Francesville, Ind.

Gutwein 10A (2X) (1, 11, 12)
Gutwein 27 (2X) (1, 3)
Gutwein 40 (2X) (1, 3)
Gutwein 69A (2X) (1, 3)
Gutwein 70A (2X) (1)
Gutwein 125 (Sp.) (1, 3)

G.E. Hulting & Son, Geneseo, Ill.

Hulting X534 (2X) (2, 3)
Hulting X537 (2X) (2, 3)
Hulting X539 (2X) (3)
Hulting X770 (2X) (2, 3)
Hulting X2772 (3X) (3)
Hulting X3219 (3X) (3)
Hulting X9761 (3X) (2, 3)
Hulting X9770 (3X) (2, 3)
Hulting X9861 (3X) (3)

Jacques Seed Co., Prescott, Wis.

Jacques JX22 (2X) (17, 18)
Jacques JX62 (2X) (8, 13, 14)
Jacques JX62A (2X) (12, 13, 14, 15)
Jacques JX75E (4X) (17, 18)
Jacques JX84E (4X) (19, 20)
Jacques JX863 (3X) (15, 17, 18)
Jacques JX902 (2X) (17, 18)
Jacques 951E (4X) (19, 20)

Jung Farms, Inc., Randolph, Wis.

Jung EX99 (2X) (7, 8, 9, 10)
Jung JX107 (2X) (7, 8, 9, 10)
Jung JX111 (2X) (7, 8, 9, 10)

Paul Kaiser, Rt. 2, Hastings, Mich.

Hy Pro (open pollinated) (8, 9, 10)

King Row Hybrids, 2705 South Portsmouth Road, Rt. 1, Bridgeport, Mich.

King Row F535 (3X) (12)
King Row KR85 (4X) (16)
King Row KR90 (4X) (16)
King Row KRX501S (2X) (12)
Lowe Seed Co., Box 44, Kankakee, Ill.

Lowe SX2TP (2X) (2, 3)
Lowe TWX2 (3X) (3)
Lowe XM333 (2X) (2)

Michigan Crop Improvement Association, East Lansing, Mich.

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 300 (4X) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
Michigan 333-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
Michigan 396-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)

Michigan 400 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 410 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 500 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 511-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 560-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 572-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 400 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 410 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 500 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 511-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 560-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 572-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 400 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 410 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 500 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 511-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 560-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 572-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 400 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 410 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 500 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 511-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 560-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 572-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 400 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 410 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 500 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan 511-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

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