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Michigan Corn Production Hybrids Compared
Michigan State University Extension Service
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1974

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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, Presque Isle and Alger county trials (Tables 10, 15, 19, 21, and 22).

Irrigated and non-irrigated comparisons were made in the Montcalm County trial (Table 16).

There were two locations in Cass County — upland soil with irrigation (Table 5) and muck soil (Table 6).

Five high lysine (opaque-2) and five normal endosperm hybrids were compared in Ingham and Kent Counties (Table 11). High lysine hybrids averaged 105.5 and normal hybrids averaged 125.5 bushels per acre at these two locations.

Hybrid x plant population trials conducted for seven years (1964-1970) at three locations (Monroe, Ingham, and Saginaw Counties) were omitted in 1973. 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 20, 5, and 14 bushels more than populations of 15,200, 19,000, 23,300 and 27,500 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 1973.

Hybrid x row width (36-, 30-, and 18-inch row spacings) trials conducted for six years at Ingham County were also omitted in 1973. 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 27 and June 11. Wet soils delayed planting at some locations. On May 19, 37% of the Michigan corn acreage was planted compared with the 10 year average of 49%. About 15% of the corn acreage was planted after June 15.

Temperatures during April and early May were 1-4 degrees below normal with above normal temperatures during the remainder of the growing season. Seasonal precipitation ranged from below normal at most testing locations to above normal at a few locations. Dry soils in August and September, along with extreme heat from August 25 through September 4 reduced yields at most locations. Average yield for all testing locations was 115 bushels in 1973 compared to 128 in 1972 and 116 in 1971.

Weather during most of October and November was favorable for harvest and "dry down" of grain in the field. Moisture content averaged 4% less than in 1972 at the testing locations.

Some killing frosts occurred in northern Michigan September 8-10 and over most of the State on October 20. A warm October with below normal rainfall reduced grain moisture and favored early harvest. 67% of the corn was harvested by November 4 compared with 21% in 1972 and 60% normally harvested at this date.

Blights (Northern, Yellow, and Leaf Spot) developed late and damage was minor. Monitor plots at all locations using hybrids with "T" cytoplasm developed heavy infection with Southern Corn Leaf Blight and some yield loss. Hybrids with "N" cytoplasm had considerably less SCLB and yields were relatively unaffected.

The Michigan Crop Reporting Service estimates that the 1973 average corn yield at 78 bushels compared to 83 (a record high) in 1972, 65 in 1971, and 79 in 1970. 1,650,000 acres were indicated for grain harvest and about 450,000 acres for silage in 1973. A grain corn crop of 128,700,000 bushels was forecast, 10% smaller than 1972, 9% larger than 1971.

HOW TO USE THIS BULLETIN

One-, two- and three-year averages are presented for all hybrids tested during 1973, 1972, and 1971. One-year data are less reliable than two- or three-year averages and should be interpreted with more caution. Confidence in corn performance data increases with the number of years and locations of testing. Two or more years' results are more desirable than one year of testing.

The tables tell you three things about the hybrids tested:

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

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

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

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

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

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

HOW TO CHOOSE A HYBRID

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

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

Planting Rate — High plant populations (20,000 or more per acre) should be considered only for soils consistently producing more than 100 bushels per acre. Rainfall deficiencies with high plant populations usually result in no increase and frequently a decrease in yield compared to 16,000 to 18,000 plants per acre. Lodging and harvest losses are often greater at higher populations.

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

Due to unusually rapid drying in the field in 1973, 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 mois-

ture 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.

SEED CYTOPLASM AND BLIGHT

Most seed corn is now produced with "N" cytoplasm and 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 higher price for the seed.

Hybrids in "T" cytoplasm had considerable SCLB and some yield reductions in 1972 and 1973. 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. Seed corn tags are labeled with "T" cytoplasm when this method of seed production is used. Tags for "N" cytoplasm seed may or may not identify the cytoplasm source. If there is no identification of the cytoplasm on the tag, you can assume that it is the "N" type seed.

"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 similar in the field.

There is usually no difference in resistance to Northern Corn Leaf Blight, Eyespot, or the new Northern Corn Leaf Spot due to seed type (cytoplasm source).

No one can be certain what the blight problem will be in 1974. 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 1974 will reduce the possibilities of infection with "T" race of SCLB.

A small amount of seed is now being produced in two new sterile cytoplasm, "C" and "R". They appear to be resistant to race "T" of SCLB.

Table A. Average, highest, and lowest moisture content, grain yield, and stalk lodging at 17 locations in 1973.

Location	No. of hybrids	% Moisture			Bushels per acre			% Stalk lodging		
		Avg.	Highest	Lowest	Avg.	Highest	Lowest	Avg.	Highest	Lowest
Monroe	78	22.4	27.1	18.4	131.4	158.7	80.5	2.6	12.2	0.0
Hillsdale	111	23.5	28.4	18.8	102.8	124.9	80.8	2.4	11.0	0.0
Branch	106	25.0	29.1	18.9	152.6	179.2	100.5	1.4	7.9	0.0
Kalamazoo	67	26.6	33.6	19.9	95.4	118.9	80.6	1.5	5.5	0.0
Cass — Upland Irrigated	70	21.3	25.0	18.2	145.6	168.2	110.5	4.8	11.7	0.0
Cass — Muck	61	23.0	27.1	18.9	130.6	159.5	99.1	4.3	12.1	0.0
Kent	50	24.2	28.4	20.1	132.5	151.4	113.8	0.8	5.2	0.0
Ottawa	59	30.9	37.7	23.9	115.4	135.9	83.6	1.1	5.0	0.0
Ingham	98	29.6	35.2	21.8	100.5	125.8	74.3	0.2	1.7	0.0
Sanilac	76	27.6	30.9	22.4	129.0	165.0	80.2	6.6	23.9	0.6
Saginaw	93	22.8	28.4	18.6	104.3	125.5	80.9	2.1	8.3	0.0
Huron	73	22.8	28.8	17.8	111.3	137.3	86.8	2.2	11.0	0.0
Montcalm — Irrigated	64	25.3	31.8	20.1	112.4	137.5	78.4	3.8	13.8	0.0
Montcalm — Not Irrigated	64	25.3	31.8	20.1	100.3	119.7	72.9	3.4	10.3	0.0
Oceana	41	22.1	28.7	18.3	107.2	130.7	83.4	6.6	16.2	2.2
Grand Traverse	41	22.9	29.8	19.2	90.6	116.3	63.3	21.9	52.0	8.3
Presque Isle	27	34.1	36.7	27.2	96.1	113.1	70.0	29.5	57.0	8.9
Average	—	25.3	30.5	20.2	115.2	139.3	84.7	5.6	15.6	1.0

Table B. Average yield, % moisture, and % stalk lodging at four plant populations at 16 locations in 1973.

Location	Bushels per acre				% Moisture in grain				% Stalk lodging			
	15,200	19,000	23,300	27,500	15,200	19,000	23,300	27,500	15,200	19,000	23,300	27,500
Monroe	136.4	148.9	145.0	142.5	19.1	19.3	19.3	19.7	2.3	2.1	2.2	4.0
Hillsdale	107.8	119.8	112.2	106.4	22.5	22.3	22.6	22.3	1.4	2.3	2.2	4.4
Branch	142.7	160.0	168.7	157.9	23.3	23.6	23.9	24.5	1.3	1.2	4.5	5.0
Kalamazoo	94.6	117.2	107.2	111.4	26.7	27.0	27.2	27.4	0.4	1.0	2.8	6.0
Cass — Irrigated	144.2	160.6	156.7	149.7	21.1	21.0	21.2	21.5	2.9	5.6	6.9	8.3
Cass — Muck	122.2	150.9	137.7	126.4	22.5	22.8	23.0	23.3	1.3	4.0	6.3	9.0
Kent	134.1	148.7	139.8	132.5	23.3	23.6	24.2	24.1	0.7	1.0	3.5	5.0
Ottawa	117.7	139.9	138.8	126.3	28.2	28.0	29.2	29.7	0.4	0.9	2.9	4.9
Ingham	102.9	121.0	117.3	106.3	27.3	27.8	27.9	28.8	0.5	1.0	2.0	4.3
Sanilac	120.9	150.4	153.6	137.2	26.0	26.2	26.4	26.3	3.8	3.9	8.7	10.7
Saginaw	102.0	118.4	112.6	101.9	18.9	18.9	19.2	19.5	2.2	3.3	7.0	8.9
Huron	106.5	131.3	125.2	116.8	20.7	20.8	20.7	20.9	2.6	4.3	5.4	7.1
Montcalm — Irrigated	107.5	134.3	127.6	108.0	25.0	25.2	26.3	26.5	2.1	4.4	4.4	6.8
Montcalm — Not Irrigated	97.1	115.5	105.5	101.8	24.2	24.0	24.7	25.2	2.6	3.7	5.3	7.2
Oceana	108.9	127.2	126.7	113.2	21.9	22.6	22.4	23.1	5.7	6.4	6.4	8.2
Grand Traverse	89.4	112.6	105.1	100.9	21.7	22.2	22.5	22.9	16.0	20.3	23.4	27.0
Average	114.7	134.8	130.0	121.2	23.3	23.5	23.8	24.1	2.9	4.0	5.9	7.9

TO AVOID MOLDY CORN IN 1974

The following recommendations will help avoid a moldy corn problem in 1974:

1. Plant early.
2. Plant early to medium-early maturing hybrids.
3. Harvest early — during October. Weather problems 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 —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Michigan 280 (4X)	18.4	21	19	90.4	103	102	7.5	6	5
Michigan 333-3X (3X)	18.7	21	—	105.2	119	—	2.5	2	—
Michigan 396-3X (3X)	18.8	21	20	129.9	134	126	0.6	1	1
Blaney BX-AA (2X)	19.5	22	—	142.5	138	—	0.5	1	—
*Super Crost S25 (2X)	19.8	23	22	148.9	145	135	2.8	2	2
Funk G4404 (2X)	19.8	—	—	125.7	—	—	1.6	—	—
*Wolverine W172 (2X)	19.9	23	—	147.7	143	—	2.1	2	—
Taylor Evans Profitmaker (2X)	20.0	—	—	80.8	—	—	1.2	—	—
Migro M-1101 (2X)	20.1	23	—	122.2	130	—	3.4	2	—
Gutwein 10A (2X)	20.2	22	21	106.6	107	110	4.3	2	2
Gutwein 116 (3X)	20.3	—	—	112.0	—	—	4.5	—	—
*Gutwein 40 (2X)	20.4	23	21	154.4	149	137	0.6	1	1
Pioneer 3784 (2X)	20.4	—	—	106.8	—	—	1.6	—	—
*Pioneer 3780 (2X)	20.5	—	—	146.4	—	—	3.8	—	—
Adler 23X (2X)	20.5	23	—	133.1	133	—	0.5	1	—
*Michigan 410-2X (2X)	20.6	23	21	147.6	148	140	2.2	1	1
*Michigan 407-2X (2X)	20.7	—	—	155.5	—	—	3.7	—	—
Taylor Evans Suremaker (3X)	20.9	23	—	95.9	100	—	8.7	4	—
Funk G4343 (2X)	20.9	—	—	120.5	—	—	1.7	—	—
OYO 220 (2X)	21.0	23	—	92.2	111	—	6.3	3	—
Taylor Evans Hastymaker (4X)	21.1	23	22	80.5	87	90	12.2	10	7
Migro M-1212 (2X)	21.2	23	—	129.1	120	—	2.7	2	—
Garno S94 (2X)	21.2	—	—	130.8	—	—	1.7	—	—
Funk 26215 (3X)	21.3	—	—	139.3	—	—	2.2	—	—
P.A.G. SX69 (2X)	21.5	—	—	133.2	—	—	2.7	—	—
Acco DC394 (3X)	21.6	—	—	104.5	—	—	5.1	—	—
Trojan TXS102 (2X)	21.6	24	23	133.0	133	130	3.2	4	3
*Acco UC3201 (2X)	21.8	25	—	144.8	135	—	4.5	3	—
Wolverine W176 (2X)	21.8	25	23	122.4	127	124	1.1	1	1
*Michigan 575-2X (2X)	21.8	25	24	152.5	153	143	2.9	2	2
Funk G4444 (2X)	21.9	25	24	142.4	137	132	3.8	2	1
Acco UC3301 (2X)	21.9	25	24	142.1	134	132	0.5	1	1
Gutwein 128 (3X)	21.9	—	—	130.8	—	—	0.5	—	—
Taylor Evans Timemaster (4X)	22.0	24	23	106.4	108	108	1.1	1	1
Gutwein 27 (2X)	22.0	25	—	139.7	148	—	3.4	2	—
Super Crost S29 (2X)	22.1	25	23	125.4	134	122	1.2	1	1
Funk G4384 (2X)	22.1	—	—	133.3	—	—	5.2	—	—
Migro M-1130 (2X)	22.2	—	—	142.7	—	—	0.5	—	—
*Michigan 572-3X (3X)	22.3	24	23	147.3	150	139	3.8	4	3
Bayless SX1795 (2X)	22.3	24	—	134.6	140	—	0.0	1	—
Pride R450 (2X)	22.3	26	25	126.7	131	132	1.1	1	1
Super Crost 2772 (2X)	22.3	—	—	143.8	—	—	1.6	—	—
Super Crost 2572 (2X)	22.3	—	—	132.5	—	—	0.6	—	—
Blaney B701 (2X)	22.5	25	—	126.0	134	—	1.7	1	—
Migro M-1010 (2X)	22.6	25	24	137.5	131	129	2.3	1	2
Acco DC441 (4X)	22.6	24	—	117.1	119	—	2.8	2	—
*Gutwein 48 (2X)	22.7	—	—	155.4	—	—	3.4	—	—
*Michigan 511-3X (3X)	22.8	25	24	155.0	150	141	5.4	4	3
Michigan 500-2X (2X)	22.9	25	24	142.5	142	140	6.7	5	3
Pioneer 3518 (Sp.)	22.9	26	25	138.3	141	141	0.6	0	0

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Stewart 3-3301 (3X)	23.1	—	—	125.7	—	—	1.7	—	—
Pride R728 (3X)	23.1	26	—	139.8	140	—	1.1	1	—
Adler 413 (3X)	23.2	25	—	127.7	131	—	0.0	0	—
Funk G4366 (3X)	23.3	—	—	135.1	—	—	8.2	—	—
*Garno S106X (2X)	23.3	—	—	151.5	—	—	1.1	—	—
Super Crost 4242 (2X)	23.5	25	25	128.2	137	134	2.3	2	1
*Super Crost S27 (2X)	23.5	27	25	154.1	139	134	0.0	0	0
Migro M-5040 (4X)	23.6	25	—	128.9	132	—	7.3	4	—
Funk G4445 (2X)	23.7	26	—	140.4	135	—	1.7	1	—
*Super Crost S63 (2X)	23.7	25	24	151.6	147	136	1.1	2	1
*Gutwein 70A (2X)	23.7	24	—	156.3	148	—	2.2	2	—
Acco Exp. 4201 (2X)	24.0	—	—	132.0	—	—	2.3	—	—
Acco UC4561 (2X)	24.0	26	—	129.1	132	—	0.0	1	—
Garno S110 (2X)	24.1	—	—	138.7	—	—	0.6	—	—
Taylor Evans Marketmaker (2X)	24.2	27	25	137.0	138	133	1.1	1	1
Trojan TXS111 (2X)	24.2	26	—	128.4	141	—	0.0	0	—
Blaney B773 (Sp.)	24.3	26	—	114.3	127	—	3.5	3	—
*Gutwein 69A (2X)	24.3	26	25	151.3	149	139	1.1	1	0
Pioneer 3731 (3X)	24.5	—	—	101.7	—	—	1.7	—	—
Migro M-3020 (4X)	24.7	27	—	135.4	143	—	2.8	2	—
Migro M-0501 (2X)	24.9	27	26	137.8	146	138	1.1	1	1
OYO 333 (2X)	25.0	27	—	130.5	136	—	8.3	5	—
OYO 435A (4X)	25.5	26	—	104.2	117	—	3.6	2	—
*Blaney B705 (2X)	25.5	—	—	157.3	—	—	0.6	—	—
Pride X3500 (2X)	25.8	—	—	111.2	—	—	1.2	—	—
Super Crost 5440 (2X)	26.1	—	—	143.7	—	—	2.8	—	—
*Trojan TXS113 (2X)	27.1	30	28	158.7	157	147	1.6	1	1
Average	22.4	25	23	131.4	134	130	2.6	2	2
Range	18.4	21	19	80.5	87	90	0.0	0	0
	to	to	to	to	to	to	to	to	to
	27.1	30	28	158.7	157	147	12.2	10	7
Least significant difference	0.9	0.6	0.6	12.9	7	6			

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 7	May 12	May 10
Harvested	Oct. 20	Nov. 8	Oct. 26
Soil type	Pewamo	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	18,800	19,800	19,900
Rows	30"	38"	38"
Fertilizer	120-80-90	166-126-126	126-144-144
Soil test: pH	6.3	7.2	7.2
P	34 (medium)	43 (high)	57 (high)
K	250 (high)	194 (high)	198 (high)
Farm Cooperators:	Ernest LaPointe, Ottawa Lake (1973) Harley Lievens, Riga (1972 and 1971)		
County Extension Director:	Paul Nevel, Monroe		

**Table 2. SOUTHERN MICHIGAN Zone 1
HILLSDALE COUNTY TRIAL**
One, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Blaney B200 (2X)	18.8	—	—	94.3	—	—	3.0	—	—
Michigan 280 (4X)	19.0	22	21	93.8	103	97	2.4	7	7
Warwick SL416 (2X)	19.6	25	24	101.7	101	95	1.5	5	3
Garno S85 (2X)	19.6	—	—	97.8	—	—	1.5	—	—
Blaney B302 (2X)	19.9	23	—	104.6	113	—	0.0	2	—
Michigan 333-3X (3X)	19.9	22	—	102.6	110	—	2.2	5	—
Todd 1528 (2X)	19.9	—	—	91.2	—	—	3.8	—	—
Michigan 396-3X (3X)	20.0	23	22	105.6	119	118	0.8	3	2
Blaney B401 (2X)	20.2	—	—	87.8	—	—	1.5	—	—
Funk G4252 (3X)	20.6	—	—	105.2	—	—	4.7	—	—
Super Crost W-1900 (2X)	20.6	—	—	103.1	—	—	3.6	—	—
Migro M-1101 (2X)	20.7	25	—	106.6	120	—	2.4	7	—
Gutwein 40 (2X)	20.8	—	—	104.6	—	—	3.7	—	—
Funk G4404 (2X)	20.9	—	—	106.2	—	—	3.7	—	—
Todd M20 (2X)	20.9	24	—	80.8	93	—	0.0	3	—

(Continued)

TABLE 2. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Warwick 405 (4X)	20.9	24	24	83.7	96	92	2.3	4	5
Jacques JX162A (2X)	21.0	—	—	98.0	—	—	3.0	—	—
Todd 1526 (2X)	21.2	—	—	93.0	—	—	5.4	—	—
Adler 23X (2X)	21.5	26	—	98.1	114	—	5.1	6	—
OYO 220 (2X)	21.6	28	—	84.9	110	—	1.4	4	—
*Super Crost S25 (2X)	21.6	27	25	123.2	135	121	0.8	3	4
Funk G4343 (2X)	21.7	24	—	104.4	117	—	2.9	5	—
Blaney BX-AA (2X)	21.7	—	—	104.6	—	—	2.3	—	—
Warwick TX60 (Sp.)	21.8	25	23	97.2	100	98	3.7	1	4
*Wolverine W170 (2X)	21.8	—	—	120.4	—	—	0.7	—	—
Super Crost S19 (2X)	21.8	24	24	113.0	123	117	4.4	7	5
*Michigan 410-2X (2X)	21.9	25	23	118.4	127	126	4.6	5	4
*Michigan 407-2X (2X)	22.0	25	—	123.1	136	—	5.6	5	—
Todd M330 (3X)	22.1	24	—	81.9	103	—	4.7	8	—
Pride R407 (2X)	22.1	26	—	81.2	110	—	2.3	4	—
Blaney B701 (2X)	22.2	26	—	88.9	108	—	3.6	5	—
Warwick SL501 (Sp.)	22.3	24	—	103.9	117	—	2.3	3	—
Gutwein 116 (3X)	22.4	—	—	94.4	—	—	0.0	—	—
Todd M50 (2X)	22.5	—	—	87.1	—	—	2.4	—	—
Pioneer 3773 (2X)	22.6	26	25	94.3	115	116	0.7	4	3
Lowe LTX-1 (3X)	22.6	—	—	103.6	—	—	1.4	—	—
Funk 26215 (3X)	22.6	—	—	109.0	—	—	3.0	—	—
Blaney B501A (2X)	22.6	26	—	88.8	110	—	5.3	5	—
Muncy Chief SX440 (2X)	22.7	29	—	89.9	114	—	1.5	1	—
Migro M-1212 (3X)	22.7	—	—	105.9	—	—	2.3	—	—
Northrup King PX545 (3X)	22.8	28	—	99.6	119	—	1.6	3	—
*Michigan 572-3X (3X)	22.9	25	25	118.3	131	125	1.6	3	2
Pioneer 3780 (2X)	23.0	—	—	104.8	—	—	2.4	—	—
Blaney 6616 (Sp.)	23.2	—	—	101.4	—	—	1.5	—	—
Michigan 500-2X (2X)	23.2	27	26	113.7	124	128	1.6	3	2
Wyckoff 2414SC (2X)	23.2	29	—	109.4	123	—	5.8	5	—
*Michigan 511-3X (3X)	23.4	27	25	116.9	123	130	1.5	3	3
*Trojan TXS102 (2X)	23.4	27	26	116.9	131	123	3.6	3	2
Hulting X9770 (3X)	23.5	29	29	97.8	113	110	11.0	6	4
Super Crost S29 (2X)	23.5	—	—	107.5	—	—	4.6	—	—
Gutwein 27 (2X)	23.5	—	—	90.1	—	—	1.5	—	—
Dekalb XL45A (2X)	23.6	28	27	107.2	112	112	1.5	3	2
Pride R522 (2X)	23.7	—	—	89.9	—	—	5.1	—	—
Migro M-1010 (2X)	23.7	29	27	104.2	117	120	2.2	3	2
Garno S96 (2X)	23.7	—	—	85.1	—	—	3.0	—	—
*Hulting X770 (2X)	23.7	29	28	121.5	132	128	3.1	5	4
Todd 1648 (2X)	23.7	—	—	112.0	—	—	4.7	—	—
Acco UC4561 (2X)	23.8	28	—	96.7	117	—	5.2	6	—
Cowbell SX209 (2X)	23.8	—	—	100.2	—	—	3.0	—	—
Funk G4444 (2X)	23.8	29	26	103.6	121	118	1.5	3	2
*Cowbell SX7440 (2X)	23.9	—	—	121.2	—	—	1.5	—	—
*Funk G4384A (2X)	24.0	—	—	119.8	—	—	1.5	—	—
Acco UC3301 (2X)	24.1	29	28	99.3	118	123	1.5	6	6
Blaney B-AA (2X)	24.1	27	26	114.0	127	127	3.0	5	4
Gutwein 48 (2X)	24.2	—	—	97.1	—	—	2.2	—	—
Super Crost 4242 (2X)	24.3	29	28	111.3	124	122	1.5	2	2
*Northrup King PX50A (2X)	24.3	28	26	114.8	128	124	4.5	3	2
Tewales TXT80 (3X)	24.3	—	—	96.3	—	—	2.2	—	—
*Pride R728 (3X)	24.3	—	—	122.0	—	—	0.7	—	—
*Pioneer 3516 (2X)	24.3	29	28	116.4	121	122	2.3	1	1
Hulting X537 (2X)	24.3	27	26	82.9	103	101	1.4	2	2
Todd M35W (2X)	24.4	—	—	91.9	—	—	2.3	—	—
P.A.G. SX69 (2X)	24.4	—	—	88.1	—	—	0.0	—	—
Dekalb XL22 (2X)	24.5	28	26	98.3	118	118	3.8	3	3
*Funk G4366 (3X)	24.5	—	—	114.7	—	—	1.5	—	—
Gutwein 128 (3X)	24.6	—	—	87.6	—	—	0.0	—	—
Super Crost S27 (2X)	24.7	28	26	106.8	126	126	3.0	3	2
Adler 413 (3X)	24.7	30	—	99.7	105	—	4.5	5	—
*Super Crost 2772 (2X)	24.7	—	—	121.1	—	—	4.5	—	—
*Lowe SX2TP (2X)	24.7	30	28	116.0	125	119	8.9	6	5
Northrup King PX610 (3X)	24.7	29	28	90.5	109	109	0.0	2	2
Migro M-1130 (2X)	24.8	—	—	106.8	—	—	0.0	—	—
Migro M-5040 (4X)	24.9	30	28	100.6	116	116	2.3	4	3
Michigan 575-2X (2X)	24.9	28	26	112.9	130	131	0.0	1	1
Dekalb XL44 (2X)	24.9	29	29	109.3	109	110	3.9	4	3
Tewales SXT24 (2X)	25.1	—	—	102.5	—	—	1.5	—	—
Cowbell 3X314 (3X)	25.1	—	—	108.4	—	—	0.7	—	—
Migro M-3020 (4X)	25.1	29	—	95.4	117	—	2.1	2	—
Stewart 3-3301 (3X)	25.1	—	—	110.7	—	—	0.7	—	—
Pride R450 (2X)	25.1	30	28	102.6	115	115	1.5	2	1
Super Crost 2572 (2X)	25.2	—	—	93.3	—	—	5.1	—	—
OYO 333 (2X)	25.3	29	—	96.9	115	—	1.5	2	—
*Pioneer 3518 (Sp.)	25.3	30	28	119.2	127	127	2.2	4	3
Muncy Chief SX550 (2X)	25.3	30	—	110.2	105	—	0.7	3	—
OYO 435A (2X)	25.4	28	—	87.0	107	—	0.8	3	—

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Gutwein 69A (2X)	25.4	—	—	106.2	—	—	5.3	—	—
Dekalb XL43 (2X)	25.4	—	—	93.6	—	—	0.0	—	—
Super Crost S65 (2X)	25.5	30	28	98.7	117	118	2.2	3	2
Hulting X534 (2X)	25.8	28	—	85.8	112	—	0.8	2	—
Cowbell X7310 (2X)	26.0	—	—	96.0	—	—	1.5	—	—
*Super Crost S63 (2X)	26.1	28	27	120.0	132	132	3.6	5	3
Renk RK55 (2X)	26.1	—	—	113.0	—	—	2.2	—	—
*Trojan TXS113 (2X)	26.2	31	29	123.5	136	131	2.2	4	3
*Acco Exp. 4201 (2X)	26.3	—	—	124.9	—	—	0.0	—	—
Funk G4445 (2X)	26.4	30	28	110.3	115	124	1.4	4	3
Trojan TXS111 (2X)	26.7	30	—	82.8	107	—	3.6	2	—
Blaney B705 (2X)	26.8	—	—	88.2	—	—	0.0	—	—
Migro M-0501 (2X)	27.1	31	29	86.4	117	117	0.7	1	1
*P.A.G. SX7 (2X)	27.3	—	—	118.3	—	—	1.4	—	—
Muncy Chief SC662 (2X)	27.8	32	—	110.3	123	—	0.7	3	—
Super Crost 5440 (2X)	28.4	—	—	106.4	—	—	0.8	—	—
Average	23.5	27	26	102.8	117	118	2.4	4	3
Range	18.8 to 28.4	22 to 32	21 to 29	80.8 to 124.9	93 to 136	92 to 132	0.0 to 11.0	1 to 8	1 to 7
Least significant Difference	0.8	0.7	0.6	11.4	7	5			

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 14	May 23	May 5
Harvested	Oct. 17	Nov. 11-29	Oct. 29
Soil type	Griffin	Griffin	Griffin
	sandy loam	sandy loam	sandy loam
Previous crop	Corn	Corn	Corn
Population	19,800	19,800	19,700
Rows	30"	30"	30"
Fertilizer	18-72-72	116-65-185	180-80-14
Soil test: pH	6.5	5.9	5.8
P	63 (high)	60 (high)	96 (very high)
K	154 (medium)	170 (medium)	235 (very high)

Farm Cooperator: Dean Shamplo, Pittsford

County Extension Agent: E. A. Netherton, Hillsdale

Table 3. SOUTHERN MICHIGAN Zone 1
BRANCH COUNTY TRIALOne, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging	
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs
Michigan 280 (4X)	18.9	21	20	123.6	110	114	7.5	24	17	11.7	
Michigan 333-3X (3X)	19.9	21	—	138.1	129	—	0.0	13	—	0.0	
Michigan 396-3X (3X)	20.5	22	21	143.6	136	139	0.8	14	11	0.0	
Taylor Evans											
Profitmaker (2X)	21.0	—	—	100.5	—	—	0.0	—	—	4.0	
Michigan 407-2X (2X)	21.3	—	—	165.2	—	—	3.1	—	—	6.2	
Moews SM220 (2X)	21.4	—	—	134.5	—	—	0.0	—	—	0.0	
Garno S85 (2X)	21.5	—	—	121.4	—	—	0.0	—	—	1.5	
Bayless 3X219-3 (3X)	21.6	—	—	143.4	—	—	3.8	—	—	0.0	
*Gutwein 40 (2X)	21.9	—	—	167.8	—	—	0.0	—	—	0.0	
Wyckoff 1212SC (2X)	21.9	23	—	147.1	138	—	3.0	14	—	10.6	
Moews WM220 (2X)	21.9	—	—	156.3	—	—	0.7	—	—	2.2	
Super Crost 1712 (2X)	22.0	23	—	131.6	129	—	0.7	15	—	0.0	
Super Crost S25 (2X)	22.0	25	23	161.3	154	159	0.0	12	9	4.5	
Michigan 410-2X (2X)	22.0	23	22	160.4	150	152	0.0	15	12	0.0	
Moews SM223 (2X)	22.3	—	—	143.5	—	—	2.2	—	—	6.7	
Migro M-1101 (2X)	22.7	25	—	137.8	139	—	2.4	17	—	8.8	
Pride R407 (2X)	23.1	26	25	145.8	139	147	3.2	17	12	5.6	
Lowe LTX-2 (3X)	23.2	26	25	151.9	145	143	1.5	13	10	1.5	
Pioneer 3773 (2X)	23.2	25	—	139.2	129	—	0.0	18	—	0.0	
Taylor Evans											
Hastymaker (4X)	23.3	25	23	115.8	93	96	2.4	32	25	4.9	
Cowbell SC7310 (2X)	23.3	—	—	153.6	—	—	2.3	—	—	9.9	
*Funk 26215 (3X)	23.3	—	—	170.5	—	—	0.7	—	—	0.0	
Super Crost S27 (2X)	23.4	26	—	150.9	138	—	1.5	9	—	6.0	
Blaney B-AA (2X)	23.5	—	—	129.9	—	—	1.5	—	—	3.8	
Migro M-1212 (2X)	23.5	—	—	160.1	—	—	0.0	—	—	0.0	

TABLE 3. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
*Trojan TXS102 (2X)	23.5	26	25	172.0	151	156	0.7	9	7	0.7		
*Michigan 572-3X (3X)	23.5	25	24	171.6	157	161	3.9	16	12	4.9		
Gutwein 116 (3X)	23.6	—	—	142.2	—	—	1.6	—	—	1.6		
Funk G4343 (2X)	23.7	—	—	159.9	—	—	2.2	—	—	0.7		
Funk G4404 (2X)	23.7	—	—	154.9	—	—	6.6	—	—	3.0		
Pioneer 3780 (2X)	23.7	—	—	146.3	—	—	4.8	—	—	7.1		
Pride R522 (2X)	23.8	—	—	159.9	—	—	2.3	—	—	0.0		
*Michigan 575-2X (2X)	23.9	26	25	177.4	160	165	0.0	7	5	7.1		
Wyckoff 2414SC (2X)	24.0	26	—	165.4	150	—	0.8	9	—	5.5		
Acco UC3301 (2X)	24.0	—	—	165.2	—	—	3.8	—	—	0.8		
Lowe SX2TP (2X)	24.0	26	25	146.2	141	143	0.0	12	9	5.1		
Moews SM229 (2X)	24.2	26	26	153.7	138	142	0.0	12	8	2.1		
Renk RK44 (2X)	24.3	26	25	161.8	153	153	2.2	11	9	2.9		
Wyckoff W10X (4X)	24.3	26	—	141.7	137	—	0.0	13	—	0.0		
*Funk G4366 (3X)	24.4	—	—	176.5	—	—	3.2	—	—	1.6		
DeKalb XL22 (2X)	24.4	—	—	155.6	—	—	1.5	—	—	2.9		
Cargill 870 (2X)	24.5	—	—	161.5	—	—	2.3	—	—	6.9		
Taylor Evans Marketmaker (2X)	24.5	26	26	155.7	137	138	1.6	10	8	3.1		
Bayless SX4395 (2X)	24.5	25	—	138.2	130	—	0.0	11	—	0.0		
Migro M-1010 (2X)	24.6	26	25	159.1	134	145	0.7	6	5	0.7		
Michigan 500-2X (2X)	24.6	26	25	164.4	153	156	0.0	15	11	5.4		
Hulting X770 (3X)	24.7	26	26	155.3	151	156	0.8	13	9	3.1		
Funk G4444 (2X)	24.7	27	25	165.6	153	161	0.7	10	8	6.7		
Cargill 449 (3X)	24.8	—	—	164.2	—	—	0.8	—	—	3.1		
Hulting X537 (2X)	24.9	26	25	143.8	138	140	2.2	8	6	0.0		
Acco UC3201 (2X)	24.9	27	—	153.0	140	—	0.8	8	—	0.0		
Cargill 875 (2X)	25.0	—	—	134.8	—	—	0.7	—	—	0.7		
*Hulting X9970 (3X)	25.0	28	28	172.1	156	161	1.4	17	12	2.2		
Michigan 511-3X (3X)	25.0	26	25	165.6	154	160	1.5	13	10	2.3		
Gutwein 48 (2X)	25.2	—	—	150.1	—	—	0.0	—	—	3.0		
*Pride R728 (3X)	25.2	28	—	172.1	146	—	2.3	18	—	0.0		
DeKalb XL45A (2X)	25.2	27	26	154.1	140	147	1.6	14	10	0.0		
*Super Crost S63 (2X)	25.2	26	26	167.2	159	164	0.8	11	9	0.0		
P.A.G. SX69 (2X)	25.3	27	—	144.5	144	—	2.9	10	—	4.4		
Pride R552 (2X)	25.4	—	—	149.0	—	—	0.0	—	—	0.0		
*Bayless SX434 (2X)	25.5	27	25	179.2	145	149	0.7	13	10	0.0		
Super Crost S29 (2X)	25.5	25	—	147.3	139	—	0.0	15	—	1.5		
*Super Crost 4242 (2X)	25.5	27	—	170.8	152	—	0.0	16	—	1.5		
Taylor Evans Suremaker (3X)	25.5	26	—	134.1	118	—	1.6	11	—	0.0		
Hulting X9761 (3X)	25.7	29	29	154.4	130	148	1.6	12	8	4.7		
*Migro M-5040 (4X)	25.7	27	—	167.3	148	—	0.0	13	—	0.0		
Hulting X539 (2X)	25.8	27	26	139.3	127	139	0.0	22	16	0.0		
Blaney B701 (2X)	25.8	—	—	151.7	—	—	2.3	—	—	0.0		
*Migro M-3020 (4X)	25.9	27	—	173.7	159	—	0.0	12	—	4.0		
Acco UC3601 (2X)	25.9	—	—	163.2	—	—	1.5	—	—	0.0		
*Trojan TXS107 (2X)	26.0	27	27	171.4	153	161	2.2	12	9	2.2		
Gutwein 128 (3X)	26.1	—	—	144.4	—	—	0.0	—	—	0.0		
Taylor Evans Timemaster (4X)	26.1	27	26	133.8	122	124	4.0	17	12	1.6		
Pride R501 (3X)	26.1	—	—	135.5	—	—	0.0	—	—	0.8		
Adler 23X (2X)	26.1	27	—	140.3	132	—	0.0	9	—	0.0		
Bayless SX1795 (2X)	26.2	26	25	164.8	156	165	1.6	12	9	3.1		
Migro M-1130 (2X)	26.3	—	—	137.7	—	—	0.7	—	—	0.0		
*Gutwein 69A (2X)	26.4	27	26	174.4	155	161	2.2	13	9	3.6		
Bayless SX434-3 (2X)	26.5	—	—	138.0	—	—	2.9	—	—	4.4		
Acco UC4561 (2X)	26.6	—	—	155.3	—	—	5.1	—	—	0.0		
*P.A.G. SX7 (2X)	26.6	30	28	173.8	158	164	5.3	20	14	12.1		
DeKalb XL44 (2X)	26.6	29	—	134.7	127	—	3.9	17	—	12.6		
Garno S96 (2X)	26.7	—	—	151.0	—	—	0.0	—	—	0.0		
Acco U370 (3X)	27.0	—	—	161.4	—	—	0.0	—	—	0.0		
Cowbell SC7440 (2X)	27.1	—	—	152.0	—	—	0.7	—	—	2.2		
Blaney B773 (2X)	27.1	—	—	144.3	—	—	3.0	—	—	3.0		
Pioneer 3518 (Sp.)	27.3	30	29	161.5	149	156	0.0	13	9	3.7		
*Funk G4384A (2X)	27.4	—	—	179.2	—	—	0.7	—	—	0.7		
Blaney 6616 (Sp.)	27.6	—	—	138.4	—	—	0.0	—	—	0.0		
Acco U378 (3X)	27.9	29	28	135.8	142	151	0.7	13	9	2.9		
Hulting X534 (2X)	28.0	27	—	138.2	140	—	0.8	14	—	2.4		
Gutwein 27 (2X)	28.0	28	—	149.5	149	—	2.3	16	—	0.8		
*Super Crost 5440 (2X)	28.1	—	—	171.7	—	—	0.0	—	—	0.0		
Adler 413 (3X)	28.1	29	—	163.8	144	—	0.7	15	—	0.0		
Bayless SX3771 (2X)	28.2	28	—	164.2	148	—	0.7	19	—	2.2		
Teweles SCT35 (Sp.)	28.2	—	—	146.2	—	—	6.2	—	—	5.4		
*Cowbell 3X314 (3X)	28.2	—	—	172.3	—	—	2.1	—	—	0.0		
Trojan TXS111 (2X)	28.3	29	—	166.4	159	—	1.5	7	—	2.3		
Blaney B705 (2X)	28.3	—	—	157.4	—	—	0.0	—	—	0.0		
Cowbell SX209 (2X)	28.4	28	26	156.9	142	144	0.0	16	12	0.0		

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
P.A.G. SX454 (2X)	28.5	—	—	147.6	—	—	0.0	—	—	0.0		
Migro M-0501 (2X)	28.6	30	29	161.5	155	163	0.8	9	6	3.9		
Funk G4445 (2X)	28.8	30	—	143.0	134	—	0.0	11	—	0.0		
Teweles SXT34 (Sp.)	29.0	—	—	151.0	—	—	0.0	—	—	0.0		
Pride X3500 (2X)	29.1	—	—	136.9	—	—	1.5	—	—	3.8		
Pride R450 (2X)	29.1	31	29	138.0	130	139	0.0	9	7	0.0		
Average	25.0	26	25	152.6	142	149	1.4	13	10	2.6		
Range	18.9	21	20	100.5	93	96	0.0	6	5	0.0		
	to	to	to	to	to	to	to	to	to	to		
	29.1	31	29	179.2	160	165	7.9	32	25	12.4		
Least significant difference	0.8	0.7	0.5	14.2	8	5						

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 11	May 22	April 30
Harvested	Oct. 18	Nov. 30	Oct. 14
Soil type	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
Previous Crop	Corn	Corn	Corn
Population	20,100	20,000	19,800
Rows	30"	30"	30"
Fertilizer	167-69-0	128-55-60	170-101-60
Soil test: pH	6.8	6.6	6.7
P	190 (very high)	151 (very high)	154 (very high)
K	332 (very high)	384 (very high)	342 (very high)

Farm Cooperator: George Matthews, Union City
County Extension Director: Paul Thompson, ColdwaterTable 4. SOUTHERN MICHIGAN Zone 1
KALAMAZOO COUNTY TRIALOne, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging	
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	
Michigan 280 (4X)	19.9	22	22	92.9	111	100	2.0	5	6	0.0	
Michigan 333-3X (3X)	21.4	23	—	96.1	117	—	0.0	3	—	0.0	
Moews MW220 (2X)	22.5	—	—	91.5	—	—	3.6	—	—	0.6	
Michigan 396-3X (3X)	22.5	25	25	101.5	129	124	3.1	3	3	0.0	
Funk G4252 (3X)	23.3	25	25	83.4	112	110	0.7	3	5	0.0	
*Funk G4404 (2X)	23.7	—	—	118.9	—	—	0.6	—	—	0.0	
Migro M-1101 (2X)	23.8	27	—	96.3	104	—	2.4	3	—	2.4	
Funk G4195 (3X)	23.9	—	—	83.0	—	—	1.2	—	—	11.0	
*Michigan 410-2X (2X)	23.9	26	26	113.0	134	129	0.0	2	1	1.2	
Pioneer 3784 (2X)	24.0	26	26	82.9	114	107	0.6	2	3	1.2	
Moews SM220 (2X)	24.0	26	—	84.3	120	—	3.0	2	—	0.0	
Pioneer 3780 (2X)	24.5	—	—	99.6	—	—	0.6	—	—	0.0	
Funk G4343 (2X)	24.5	28	—	102.5	119	—	1.3	3	—	1.9	
*Michigan 407-2X (2X)	25.0	—	—	116.8	—	—	2.5	—	—	0.0	
Adler 23X (2X)	25.0	29	—	81.2	111	—	0.6	1	—	0.0	
Migro M-1212 (2X)	25.0	28	—	89.5	115	—	5.5	7	—	2.5	
Moews SM223 (2X)	25.0	—	—	81.8	—	—	0.6	—	—	0.6	
Acco UC2301 (2X)	25.2	28	28	88.3	111	111	2.4	5	3	0.6	
Asgrow RX53 (2X)	25.5	29	28	88.0	118	119	2.5	3	2	0.0	
Funk G4444 (2X)	25.6	29	—	93.8	125	—	1.2	5	—	0.6	
*Funk G4366 (2X)	25.7	—	—	115.7	—	—	0.6	—	—	0.0	
*Super Crost S63 (2X)	25.7	31	32	117.5	129	129	1.9	2	2	0.0	
Super Crost S25 (2X)	26.1	29	30	92.3	116	113	0.0	1	1	3.2	
Cowbell Ex. 7310 (2X)	26.1	—	—	80.6	—	—	0.0	—	—	1.9	
Wyckoff 2414SX (2X)	26.2	31	—	89.1	114	—	1.2	1	—	0.0	
Funk G25792 (2X)	26.2	—	—	95.1	—	—	1.2	—	—	0.6	
Cowbell SC7300 (2X)	26.3	—	—	87.9	—	—	2.5	—	—	0.0	
Super Crost S29 (2X)	26.3	31	31	99.5	114	108	0.6	3	2	0.6	
Pride R501 (3X)	26.4	30	—	92.3	124	—	1.8	2	—	0.6	
Michigan 511-3X (3X)	26.6	30	31	97.6	122	121	0.7	2	1	0.7	
*Acco UC3301 (2X)	26.7	—	—	116.4	—	—	1.2	—	—	3.0	
Pride X2400 (2X)	26.7	—	—	90.1	—	—	4.9	—	—	0.6	
Trojan TXS108A (2X)	26.7	—	—	89.0	—	—	2.5	—	—	0.0	
*Michigan 572-3X (3X)	26.9	29	29	111.4	133	124	3.6	5	4	0.0	
Wyckoff W-5X (4X)	26.9	29	—	101.4	119	—	3.0	7	—	0.6	

TABLE 4. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging			% Root lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
*Asgrow RX58 (2X)	26.9	32	32	106.4	118	121	3.1	3	4	3.1		
Migro M-5040 (4X)	26.9	30	31	82.8	112	116	1.3	2	1	0.6		
DeKalb XL45A (2X)	26.9	32	32	87.9	107	106	0.6	7	7	1.2		
Super Crost 4242 (2X)	27.1	32	—	97.4	123	—	2.5	6	—	0.0		
Michigan 500-2X (2X)	27.1	30	31	98.6	124	120	1.2	3	4	0.0		
Funk G4384A (2X)	27.1	—	—	96.3	—	—	0.6	—	—	3.6		
P.A.G. SX69 (2X)	27.2	—	—	102.5	—	—	0.6	—	—	2.4		
*Trojan TXS102 (2X)	27.2	31	31	109.9	127	117	0.6	1	2	0.0		
Migro M-1130 (2X)	27.4	—	—	92.8	—	—	0.6	—	—	1.3		
Cowbell SX7440 (2X)	27.5	—	—	91.6	—	—	3.0	—	—	0.6		
Teweles SXT28 (2X)	27.6	30	—	85.1	113	—	2.5	5	—	8.0		
Moews SM229 (2X)	27.8	—	—	102.9	—	—	0.6	—	—	0.6		
Acco UC4561 (2X)	27.8	—	—	94.7	—	—	1.2	—	—	0.6		
Acco UC3201 (2X)	27.8	32	—	89.0	114	—	1.9	2	—	3.8		
Cowbell 3X314 (3X)	27.8	33	—	83.2	107	—	0.6	2	—	2.4		
Super Crost S27 (2X)	27.9	32	—	97.9	121	—	1.3	3	—	1.9		
Cowbell SX112 (2X)	28.0	—	—	83.7	—	—	1.2	—	—	0.0		
Northrup King PX50A (2X)	28.1	32	—	90.5	113	—	1.8	—	3	1.2		
*Migro M-3020 (4X)	28.2	33	—	106.7	130	—	0.8	4	—	1.5		
*Pioneer 3518 (Sp.)	28.2	—	—	107.0	—	—	0.6	—	—	0.6		
Michigan 575-2X (2X)	28.3	32	32	104.0	129	125	0.6	2	2	1.9		
Migro M-1010 (2X)	28.5	31	31	85.3	113	111	0.6	2	3	2.6		
Acco Exp. 4201 (2X)	28.6	—	—	97.7	—	—	4.4	—	—	1.3		
Teweles SXT35 (Sp.)	28.7	—	—	94.5	—	—	0.6	—	—	0.0		
Funk G4445 (2X)	28.7	—	—	96.2	—	—	1.8	—	—	1.8		
Super Crost 5440 (2X)	29.2	—	—	92.0	—	—	2.5	—	—	0.0		
Teweles SXT34 (Sp.)	29.4	—	—	89.5	—	—	1.3	—	—	2.5		
Trojan TXS111 (2X)	29.5	—	—	90.7	—	—	0.6	—	—	0.6		
Teweles SXT24 (Sp.)	29.6	—	—	96.5	—	—	1.8	—	—	4.3		
Adler 413 (3X)	30.6	33	—	84.4	112	—	1.2	1	—	0.0		
Migro M-0501 (2X)	30.8	34	34	88.0	118	116	0.0	1	1	0.0		
Trojan TXS113 (2X)	33.6	—	—	103.7	—	—	0.6	—	—	2.5		
Average	26.6	29	29	95.4	118	116	1.5	3	3	1.2		
Range	19.9	22	22	80.6	104	100	0.0	1	1	0.0		
	33.6	34	34	118.9	134	129	5.5	7	7	11.0		
Least significant difference	1.0	0.8	0.6	10.2	7	5						

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 17	May 22	May 12
Harvested	Oct. 20	Oct. 27	Oct. 18
Soil type	Fox sandy loam	Warsaw loam	Warsaw loam
Previous Crop	Corn	Corn	Corn
Population	18,200	19,900	20,000
Rows	30"	30"	30"
Fertilizer	129-48-144	131-63-127	139-72-152
Soil test: pH	6.7	6.3	6.0
P	83 (very high)	45 (high)	46 (high)
K	240 (high)	243 (high)	242 (high)

Farm Cooperator: Richard VanVrancken, Climax

County Extension Agents: Vern Hinz and Dick Bailey, Kalamazoo

Table 5. SOUTHERN MICHIGAN Zone 1
IRRIGATED UPLAND SOIL — CASS COUNTY TRIAL
One, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Moews SM220 (2X)	18.2	22	22	121.7	130	139	6.0	12	8
Michigan 280 (4X)	18.3	21	21	110.5	109	112	5.4	10	9
Moews SM223 (2X)	18.4	—	—	154.8	—	—	5.9	—	—
Michigan 333-3X (3X)	18.4	21	—	128.6	129	—	4.6	5	—
Super Crost W-1900 (2X)	18.5	—	—	135.0	—	—	6.8	—	—
*Super Crost S25 (2X)	18.5	23	—	158.2	161	—	4.3	4	—
*Michigan 407-2X (2X)	18.5	—	—	163.7	—	—	7.2	—	—
*Funk G4404 (2X)	18.6	—	—	159.3	—	—	1.5	—	—
Funk G4252 (3X)	18.8	—	—	121.1	—	—	6.7	—	—
Michigan 396-3X (3X)	18.9	22	22	152.8	151	144	4.3	5	4

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Moews WM220 (2X)	19.0	—	—	118.0	—	—	4.3	—	—
Migro M-1101 (2X)	19.2	23	—	113.3	128	—	4.4	7	—
Garno S94 (2X)	19.3	—	—	148.7	—	—	5.1	—	—
Adler 23X (2X)	19.6	23	—	152.7	152	—	5.1	4	—
Michigan 410-2X (2X)	19.6	22	22	154.1	156	154	4.8	3	3
Funk G4343 (2X)	19.7	—	—	141.8	—	—	5.9	—	—
Prairie Stream SX3 (2X)	20.2	24	24	144.7	153	151	4.4	3	3
Pioneer 3780 (2X)	20.2	—	—	136.0	—	—	4.3	—	—
Acco UC3301 (2X)	20.2	24	24	134.6	140	145	9.3	6	5
Migro M-1212 (2X)	20.3	—	—	141.9	—	—	2.2	—	—
*Cowbell SX7440 (2X)	20.3	—	—	159.0	—	—	4.3	—	—
Northrup King PX529 (3X)	20.9	24	—	135.0	129	—	3.5	4	—
Funk G25792 (2X)	20.9	—	—	156.3	—	—	11.7	—	—
Cowbell SX7310 (2X)	20.9	—	—	133.0	—	—	6.7	—	—
Pioneer 3729 (3X)	20.9	24	—	125.6	128	—	5.3	5	—
Northrup King PX50A (2X)	20.9	—	—	140.8	—	—	3.6	—	—
Northrup King PX545 (3X)	21.0	—	—	136.5	—	—	3.7	—	—
DeKalb XL22 (2X)	21.0	24	—	136.1	142	—	6.2	4	—
Renk RK44 (2X)	21.1	25	24	140.4	134	140	3.7	2	3
*Asgrow RX58 (2X)	21.3	—	—	165.8	—	—	5.9	—	—
Michigan 511-3X (3X)	21.3	25	25	149.5	150	151	3.6	5	4
Michigan 572-3X (3X)	21.4	25	24	154.8	154	152	0.0	3	4
Funk G4444 (2X)	21.4	25	24	156.8	148	151	6.1	3	5
Super Crost S29 (2X)	21.4	—	—	129.7	—	—	5.1	—	—
*Bayless SX434-3 (2X)	21.4	—	—	160.0	—	—	4.2	—	—
*Michigan 575-2X (2X)	21.5	26	24	166.4	157	158	6.6	4	3
Trojan TXS102 (2X)	21.5	—	—	145.2	—	—	5.8	—	—
Moews SM229 (2X)	21.6	25	25	139.6	140	138	7.4	6	5
*Funk G4366 (3X)	21.7	—	—	159.4	—	—	6.2	—	—
Super Crost 2772 (2X)	21.7	—	—	129.7	—	—	5.6	—	—
Acco UC3201 (2X)	21.9	26	—	150.4	145	—	7.4	4	—
Super Crost S27 (2X)	21.9	26	—	142.3	132	—	4.5	3	—
*Migro M-1130 (2X)	22.0	—	—	168.2	—	—	3.6	—	—
Migro M-1010 (2X)	22.0	26	25	150.6	140	144	8.0	4	4
Garno S96 (2X)	22.0	26	—	151.7	148	—	4.3	5	—
Michigan 500-2X (2X)	22.0	25	25	148.1	148	149	5.0	5	4
Super Crost S63 (2X)	22.2	25	25	148.5	149	155	3.5	3	2
DeKalb XL45A (2X)	22.3	—	—	143.8	—	—	3.7	—	—
Migro M-3020 (4X)	22.4	25	—	150.1	150	—	5.1	6	—
Garno S106X (2X)	22.4	—	—	154.1	—	—	3.5	—	—
Cowbell SX209 (2X)	22.5	—	—	157.1	—	—	5.7	—	—
Super Crost 4242 (2X)	22.5	26	25	145.4	153	150	3.0	2	3
Funk G4445 (2X)	22.6	26	—	148.9	147	—	2.3	4	—
*Pioneer 3518 (Sp.)	22.6	27	26	158.1	153	152	0.7	1	1
*Garno S110 (2X)	22.9	—	—	159.5	—	—	0.7	—	—
DeKalb XL44 (2X)	22.9	26	—	151.7	146	—	6.4	6	—
*Funk G4384A (2X)	23.0	—	—	158.2	—	—	2.9	—	—
Bayless SX1795 (2X)	23.0	25	—	145.7	152	—	2.8	4	—
Prairie Stream SX1B (2X)	23.0	26	26	156.1	149	148	4.9	7	7
Pioneer 3516 (2X)	23.1	27	27	154.8	156	154	3.6	4	3
*Migro M-5040 (4X)	23.2	26	25	164.2	155	153	3.6	3	2
Northrup King PX610 (3X)	23.2	26	26	143.3	146	144	6.8	11	11
Migro M-0501 (2X)	23.6	27	27	154.1	154	146	1.4	1	1
Adler 413 (3X)	23.6	27	—	131.9	137	—	2.2	5	—
*Acco UC3601 (2X)	23.6	—	—	166.7	—	—	7.2	—	—
Parker 500 (2X)	23.7	—	—	139.7	—	—	5.2	—	—
Super Crost 5440 (2X)	23.9	—	—	148.8	—	—	1.5	—	—
Trojan TXS111 (2X)	23.9	27	—	131.5	143	—	0.0	0	—
Acco Exp. 4201 (2X)	24.5	—	—	130.5	—	—	4.9	—	—
Northrup King PX611 (3X)	25.0	—	—	132.0	—	—	5.6	—	—
Average	21.3	25	24	145.6	145	146	4.8	4	4
Range	18.2	21	21	110.5	109	112	0.0	0	1
	25.0	27	27	168.2	161	158	11.7	12	11
Least significant difference	0.7	0.5	0.5	12.2	7	5			

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 26	May 17	May 10
Harvested	Oct. 23	Nov. 1	Oct. 20
Soil type	Kalamazoo sandy loam	Kalamazoo sandy loam	Kalamazoo sandy loam
Previous crop	Soybeans	Soybeans	Corn
Population	23,300	22,900	23,000
Rows	28"	28"	28"
Fertilizer	200-63-9	214-54-18	218-54-138
Irrigation	7.5 inches	8 inches	8.5 inches
Soil test: pH	6.3	6.5	5.9
P	95 (very high)	67 (very high)	121 (very high)
K	294 (high)	274 (high)	330 (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, Three Year Averages —
 1973, 1971, 1970
 No results from 1972

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Michigan 280 (4X)	18.9	20	19	104.3	123	110	5.9	8	12
Funk G4195 (3X)	19.6	—	—	99.1	—	—	5.7	—	—
Michigan 275-2X (2X)	20.0	20	19	105.1	113	104	8.8	9	14
Acco UC1901 (2X)	20.1	—	—	112.6	—	—	1.4	—	—
Asgrow RX42 (2X)	20.4	—	—	134.3	—	—	3.7	—	—
Michigan 333-3X (3X)	20.4	21	—	126.0	136	—	3.7	3	—
Moews SM220 (2X)	20.9	—	—	109.3	—	—	8.4	—	—
Michigan 396-3X (3X)	21.0	21	21	138.7	139	128	2.9	3	5
Pioneer 3956 (2X)	21.1	22	21	103.5	123	111	5.7	4	13
Moews WM220 (2X)	21.2	22	—	124.5	140	—	3.0	4	—
*Funk G4404 (2X)	21.3	—	—	150.4	—	—	4.9	—	—
Moews SM223 (2X)	21.4	—	—	116.7	—	—	4.2	—	—
*Michigan 407-2X (2X)	21.5	—	—	153.2	—	—	7.8	—	—
Migro M-1101 (2X)	21.5	—	—	125.2	—	—	1.5	—	—
Cowbell SX102 (2X)	21.6	22	—	126.2	131	—	2.8	9	—
Wyckoff 1212SX (2X)	21.6	—	—	111.6	—	—	2.9	—	—
Acco UC2301 (2X)	21.6	23	—	139.6	150	—	5.1	5	—
Pride R200A (2X)	21.8	—	—	104.0	—	—	12.1	—	—
Funk G4252 (3X)	22.3	—	—	112.6	—	—	5.0	—	—
Pioneer 3909 (2X)	22.3	24	—	118.2	133	—	5.0	3	—
Northrup King PX30 (2X)	22.3	—	—	128.0	—	—	9.1	—	—
Super Crost S25 (2X)	22.4	24	—	135.6	151	—	4.9	5	—
*Michigan 410-2X (2X)	22.4	23	23	145.5	155	147	3.7	5	10
*Garno S96 (2X)	22.5	—	—	147.2	—	—	2.8	—	—
Garno S94 (2X)	22.6	—	—	138.4	—	—	5.4	—	—
Bayless 3X219-3 (3X)	22.7	—	—	113.9	—	—	6.6	—	—
Cowbell SC7300 (2X)	22.7	—	—	127.5	—	—	10.8	—	—
*Funk G4343 (2X)	22.8	—	—	149.0	—	—	3.6	—	—
*DeKalb XL21 (2X)	22.9	—	—	144.8	—	—	2.2	—	—
Bayless SX4395 (2X)	23.0	24	—	136.0	151	—	2.1	5	—
Super Crost 1712 (2X)	23.2	—	—	117.9	—	—	4.3	—	—
Migro M-1212 (2X)	23.3	—	—	130.6	—	—	2.1	—	—
*Funk G4444 (2X)	23.3	24	24	156.2	155	149	9.2	6	11
Wyckoff W-5X (4X)	23.4	—	—	118.0	—	—	2.9	—	—
Michigan 500-2X (2X)	23.5	25	23	138.7	149	137	4.1	4	9
Acco UC3201 (2X)	23.7	—	—	131.5	—	—	2.2	—	—
Trojan TXS102 (2X)	23.7	—	—	132.0	—	—	4.3	—	—
*Michigan 572-3X (3X)	23.8	24	23	145.6	152	145	1.5	3	7
Acco UC3301 (2X)	23.8	25	—	139.1	154	—	3.5	3	—
Pioneer 3780 (2X)	23.9	—	—	140.6	—	—	5.6	—	—
*Super Crost S27 (2X)	23.9	25	24	150.0	145	132	6.5	6	13
*Michigan 575-2X (2X)	23.9	—	—	151.0	—	—	0.7	—	—
Migro M-1010 (2X)	24.1	25	23	139.1	154	134	4.4	2	6
Moews SM229 (2X)	24.1	25	—	131.6	146	—	5.7	4	—
Michigan 511-3X (3X)	24.3	25	23	141.1	148	136	4.3	2	8
*Trojan TXS107 (2X)	24.5	—	—	144.6	—	—	2.1	—	—
Prairie Stream SX3 (2X)	24.6	—	—	130.4	—	—	0.0	—	—
Funk G4366 (3X)	24.7	—	—	142.0	—	—	1.4	—	—
*Migro M-1130 (2X)	25.0	—	—	150.7	—	—	4.3	—	—
*Funk G4384A (2X)	25.0	—	—	149.3	—	—	5.0	—	—
Pioneer 3722 (2X)	25.1	—	—	131.5	—	—	1.4	—	—
Super Crost S28 (2X)	25.1	26	—	113.6	132	—	2.9	3	—
*Pioneer 3518 (Sp.)	25.1	—	—	148.5	—	—	1.5	—	—
Trojan TXS111 (2X)	25.3	—	—	114.3	—	—	4.2	—	—
Parker 360 (2X)	25.5	26	24	129.7	140	129	7.4	5	9
Migro M-3020 (4X)	25.6	—	—	142.0	—	—	7.0	—	—
Migro M-0501 (2X)	26.1	27	—	123.9	137	—	1.4	1	—
Super Crost 2572 (2X)	26.4	—	—	106.8	—	—	1.4	—	—
DeKalb XL44 (2X)	26.4	—	—	129.2	—	—	7.4	—	—
Migro M-5040 (4X)	26.5	—	—	112.4	—	—	3.5	—	—
*Pioneer 3516 (2X)	27.1	28	26	159.5	163	151	2.1	2	2
Average	23.0	24	23	130.5	143	132	4.3	4	8
Range	18.9 to 27.1	20 to 28	19 to 26	99.1 to 159.5	113 to 163	104 to 151	0.0 to 12.1	1 to 9	2 to 14
Least significant difference	0.8	0.6	0.6	12.7	7	5			

*Significantly better than average yield in 1973.

	1973	1971	1970
Planted	May 26	May 17	May 18
Harvested	Oct. 22	Oct. 19	Oct. 27
Soil type	Carlisle muck	Carlisle muck	Carlisle muck
Previous crop	Corn	Corn	Corn
Population	20,900	21,000	19,700
Rows	30"	30"	30"
Fertilizer	87-69-105	87-69-60	107-69-100
Soil test: pH	5.5	5.4	5.4
P	60 (very high)	85 (very high)	69 (very high)
K	483 (very high)	515 (very high)	570 (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, Two, Three Year Averages —
 1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Northrup King PX20 (2X)	20.1	22	—	121.4	116	—	0.7	14	—
Michigan 280 (4X)	20.4	22	21	123.3	124	130	4.4	17	15
Funk G4195 (3X)	20.5	—	—	130.3	—	—	3.0	—	—
Michigan 333-3X (3X)	20.8	22	22	127.3	126	137	2.9	9	7
Michigan 275-2X (2X)	20.9	21	21	119.7	114	124	2.2	11	10
Pioneer 3956 (2X)	21.4	23	23	117.8	121	127	0.7	17	15
Cowbell SX102 (2X)	21.8	23	23	124.4	123	132	0.7	3	4
Acco UC2301 (2X)	22.0	24	23	134.1	141	148	0.0	10	7
Funk G4252 (3X)	22.1	23	22	118.1	110	126	0.8	14	11
Migro M-1101 (2X)	22.3	24	—	139.2	143	—	0.7	9	—
Pioneer 3784 (2X)	22.8	25	24	125.8	127	139	0.0	8	7
Michigan 396-3X (3X)	23.0	24	23	134.2	136	144	0.0	10	8
Funk G4288 (3X)	23.0	—	—	140.9	—	—	0.7	—	—
Northrup King PX525 (3X)	23.0	25	—	119.8	120	—	0.0	14	—
Michigan 410-2X (2X)	23.3	24	23	143.8	144	150	0.0	5	4
Acco U334 (3X)	23.4	25	—	137.9	135	—	0.0	5	—
Funk G4404 (2X)	23.5	—	—	138.1	—	—	0.7	—	—
*Michigan 407-2X (2X)	23.6	25	—	149.3	156	—	0.0	5	—
Funk G4343 (2X)	23.7	25	—	139.6	144	—	0.0	14	—
Trojan TXS102 (2X)	24.0	26	—	139.1	132	—	0.7	5	—
Funk G4321 (2X)	24.1	—	—	133.4	—	—	0.0	—	—
Michigan 572-3X (3X)	24.3	27	26	141.1	145	155	0.7	12	8
Renk RK11AA (2X)	24.4	—	—	135.0	—	—	0.7	—	—
Blaney B-AA (2X)	24.5	27	26	142.3	145	142	1.4	8	6
Migro M-5040 (4X)	24.6	27	—	127.1	142	—	0.0	5	—
Migro M-3020 (4X)	24.6	27	—	136.9	144	—	0.7	8	—
DeKalb XL22B (Sp.)	24.6	—	—	123.2	—	—	0.0	—	—
*Pioneer 3780 (2X)	24.7	26	—	149.3	149	—	0.7	3	—
Cowbell SX7300 (2X)	24.7	—	—	136.6	—	—	0.7	—	—
*Michigan 575-2X (2X)	24.8	28	27	151.4	148	161	0.0	6	5
Pioneer 3773 (2X)	24.8	26	26	121.7	125	134	0.0	16	14
Michigan 500-2X (2X)	24.9	27	26	131.0	133	142	0.7	13	10
Funk G4366 (2X)	25.0	—	—	141.4	—	—	0.0	—	—
Migro M-1010 (2X)	25.1	27	26	138.1	139	139	2.1	4	3
*Cowbell SX7440 (2X)	25.1	—	—	146.1	—	—	0.0	—	—
Migro M-1130 (2X)	25.2	—	—	129.0	—	—	0.7	—	—
Michigan 511-3X (3X)	25.2	27	27	133.2	138	149	0.7	3	3
Funk G4384A (2X)	25.4	—	—	134.8	—	—	1.4	—	—
Trojan TXS92 (2X)	25.4	—	—	113.8	—	—	0.0	—	—
Migro M-1212 (2X)	25.4	—	—	131.3	—	—	0.7	—	—
Acco UC3201 (2X)	25.5	27	—	132.3	134	—	0.7	3	—
Renk R235A (3X)	25.7	—	—	122.0	—	—	0.0	—	—
Trojan TXS94 (2X)	25.8	26	—	121.4	120	—	0.0	14	—
Super Crost S27 (2X)	25.8	—	—	120.5	—	—	0.0	—	—
Cowbell SX209 (2X)	25.9	—	—	130.8	—	—	0.7	—	—
DeKalb XL45A (2X)	26.1	27	27	122.9	127	141	0.0	14	10
Cowbell SX7310 (2X)	26.3	—	—	130.7	—	—	0.7	—	—
Funk G4444 (2X)	26.4	28	27	140.1	146	151	5.2	12	8
Northrup King PX50A (2X)	27.3	29	28	132.4	144	152	0.0	2	2
*Migro M-0501 (2X)	28.4	29	29	148.4	154	149	0.7	2	1
Average	24.2	26	25	132.5	135	142	0.8	9	7
Range	20.1 to 28.4	21 to 29	21 to 29	113.8 to 151.4	110 to 156	124 to 161	0.0 to 5.2	2 to 17	1 to 15
Least significant difference	0.8	0.6	0.5	12.6	7	5			

*Significantly better than average yield in 1973.

TABLE 7. (Continued)

	1973	1972	1971
Planted	May 17	May 11	May 5
Harvested	Nov. 2	Oct. 31	Oct. 21
Soil type	Belville loam	Belville loam	Belville loam
Previous crop	Corn	Corn	Corn
Population	22,300	21,800	22,300
Rows	30"	30"	36"
Fertilizer	123-58-120, manure	123-58-120, manure	225-64-120, manure
Soil test: pH	7.2	6.9	6.4
P	53 (very high)	28 (medium)	34 (medium)
K	337 (very high)	301 (high)	156 (medium)

Farm Cooperator: Gerald Kayser, Caledonia

County Extension Agent: Robert Knisely, Grand Rapids

Table 8. SOUTH CENTRAL MICHIGAN Zone 2
OTTAWA COUNTY TRIAL
One, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Michigan 275-2X (2X)	23.9	23	22	92.9	91	89	3.6	21	14
Michigan 333-3X (3X)	24.8	24	23	99.9	103	101	0.6	17	12
Blaney B200 (2X)	25.2	—	—	83.6	—	—	5.0	—	—
Michigan 280 (4X)	25.4	25	23	88.7	89	87	2.8	21	17
Funk G4195 (3X)	26.2	—	—	102.5	—	—	3.3	—	—
Blaney B302 (2X)	26.9	26	—	118.7	116	—	0.6	19	—
Cowbell SX102 (2X)	27.9	28	26	115.8	109	102	0.5	14	10
*Blaney B401 (2X)	28.0	—	—	132.0	—	—	1.1	—	—
Michigan 396-3X (3X)	28.0	26	25	124.6	124	118	1.7	13	10
Funk G4343 (2X)	28.7	29	—	120.7	123	—	1.1	11	—
*Michigan 407-2X (2X)	28.7	28	—	131.4	138	—	2.4	14	—
*Acco UC2301 (2X)	28.8	28	26	133.8	127	121	0.0	22	15
Pioneer 3909 (2X)	28.8	28	—	103.2	98	—	1.1	23	—
Funk G4252 (3X)	29.3	27	25	113.9	101	99	0.0	20	13
Trojan TXS92 (2X)	29.9	—	—	86.8	—	—	2.2	—	—
*Michigan 410-2X (2X)	29.9	28	26	126.6	132	128	1.6	16	11
Blaney B501A (2X)	30.0	30	—	116.9	128	—	0.6	15	—
Migro M-1101 (2X)	30.2	28	—	109.9	122	—	2.2	20	—
Super Crost W1900 (2X)	30.3	—	—	108.2	—	—	0.0	—	—
Wolverine W166 (2X)	30.4	—	—	110.4	—	—	1.8	—	—
Michigan 572-3X (3X)	30.5	29	28	126.1	128	124	1.8	19	13
Acco U334 (3X)	30.7	29	—	120.9	121	—	0.6	21	—
Renk RK11AA (2X)	30.7	—	—	116.5	—	—	2.7	—	—
*Migro M-1212 (2X)	30.8	—	—	132.1	—	—	1.1	—	—
Acco UC2901 (2X)	30.9	29	—	115.2	112	—	1.1	19	—
Michigan 500-2X (2X)	31.4	30	28	125.3	127	124	0.0	19	13
Jacques JX162A (2X)	31.5	29	—	120.3	129	—	0.0	16	—
Northrup King PX525 (3X)	31.6	29	—	109.7	95	—	4.8	27	—
*Pioneer 3780 (2X)	31.6	29	—	132.2	138	—	0.0	18	—
Super Crost S25 (2X)	31.6	30	—	107.3	125	—	0.0	15	—
Jung JX104A (2X)	31.6	—	—	116.3	—	—	0.2	—	—
*Funk G4384A (2X)	31.7	—	—	127.6	—	—	1.1	—	—
Funk G4321 (2X)	31.8	—	—	121.6	—	—	0.0	—	—
Acco UC3301 (2X)	31.8	31	30	123.8	128	123	0.0	15	11
Funk G4444 (2X)	31.8	32	30	123.8	130	128	1.7	11	7
DeKalb XL21 (2X)	31.8	—	—	112.0	—	—	1.2	—	—
Funk G4404 (2X)	32.0	—	—	114.8	—	—	1.1	—	—
Trojan TXS102 (2X)	32.2	—	—	115.8	—	—	2.7	—	—
DeKalb XL22B (Sp.)	32.2	30	29	116.9	120	119	0.5	19	14
Cowbell SX7440 (2X)	32.4	—	—	113.4	—	—	0.0	—	—
Michigan 511-3X (3X)	32.4	31	29	123.0	130	126	0.0	12	8
*Migro M-5040 (4X)	32.5	33	—	135.9	133	—	0.5	12	—
Acco UC3201 (2X)	32.5	31	—	104.0	120	—	4.5	16	—
Wolverine W172 (2X)	32.6	—	—	123.5	—	—	0.5	—	—
*Cowbell SC209 (2X)	32.7	—	—	127.9	—	—	0.0	—	—
P.A.G. SX69 (2X)	32.7	—	—	115.4	—	—	2.8	—	—
Cowbell SX7310 (2X)	32.9	—	—	104.3	—	—	0.0	—	—
Super Crost S27 (2X)	32.9	31	—	108.6	123	—	0.5	13	—
Northrup King PX50A (2X)	32.9	30	29	106.9	124	115	0.0	14	9
Migro M-3020 (4X)	33.0	31	—	109.4	125	—	0.0	15	—
Super Crost 2772 (2X)	33.2	—	—	121.0	—	—	0.0	—	—
Migro M-1130 (2X)	33.3	—	—	119.9	—	—	1.1	—	—
Jung JX111 (2X)	33.3	31	—	117.4	130	—	0.0	9	—
Cowbell SX7300 (2X)	33.5	—	—	113.7	—	—	0.0	—	—
Migro M-1010 (2X)	33.9	33	31	107.6	125	111	2.2	12	8

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Michigan 575-2X (2X)	33.9	32	30	121.5	132	131	0.0	11	7
Funk G4366 (3X)	34.4	—	—	112.3	—	—	0.6	—	—
Trojan TXS108A (2X)	34.9	—	—	110.8	—	—	1.1	—	—
Migro M-0501 (2X)	37.7	36	33	119.2	129	121	0.0	11	8
Average	30.9	29	27	115.4	121	115	1.1	16	11
Range	23.9 to 37.7	23 to 36	22 to 33	83.6 to 135.9	89 to 138	87 to 130	0.0 to 5.0	9 to 27	7 to 17
Least significant difference	1.2	1.0	0.7	10.2	7	5			

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	June 11	May 16	May 6
Harvested	Oct. 31	Dec. 5-12	Oct. 23
Soil type	Allendale fine sandy loam	Allendale fine sandy loam	Allendale fine sandy loam
Previous crop	Corn	Corn	Corn
Population	20,100	20,200	19,600
Rows	30"	30"	30"
Fertilizer	100-80-40, manure	110-80-40, manure	16-72-20, manure
Soil test: pH	7.1	6.6	6.4
P	78 (very high)	74 (very high)	80 (very high)
K	234 (high)	325 (very high)	330 (very high)

Farm Cooperator: James Busman, Coopersville

County Extension Director: Lawrence Stebbins, Grand Haven

Table 9. SOUTH CENTRAL MICHIGAN Zone 2
GRAIN — INGHAM COUNTY TRIAL
One, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Michigan 280 (4X)	21.8	22	22	84.0	95	98	0.9	2	1
Michigan 275-2X (2X)	21.9	23	22	86.8	97	100	0.0	2	2
Michigan 333-3X (3X)	23.2	24	24	104.2	119	117	0.0	1	1
Blaney B302 (2X)	23.7	—	—	107.5	—	—	0.0	—	—
Super Crost 1692 (2X)	24.1	—	—	91.0	—	—	0.0	—	—
Taylor Evans Profitmaker (2X)	24.5	—	—	83.2	—	—	0.0	—	—
Funk G4195 (3X)	25.3	—	—	91.9	—	—	0.0	—	—
Garno S85 (2X)	25.4	—	—	91.4	—	—	0.8	—	—
Stewart 2-3102 (2X)	25.6	—	—	104.2	—	—	0.8	—	—
Funk G4252 (3X)	26.1	26	26	85.1	91	93	0.0	2	1
Michigan 396-3X (3X)	26.1	26	26	107.8	123	121	0.0	1	1
Warwick SL416 (2X)	26.2	27	27	80.2	99	98	0.9	1	1
Taylor Evans Timemaster (4X)	26.6	27	28	90.4	97	92	0.0	3	2
Migro M-1101 (2X)	26.8	27	—	83.2	108	—	0.8	1	—
Taylor Evans Hastymaker (4X)	26.9	26	26	74.5	81	78	0.0	0	0
Garno S85X (2X)	26.9	—	—	92.0	—	—	0.8	—	—
Warwick 405 (4X)	27.0	26	26	74.5	82	93	0.0	1	1
Taylor Evans Suremaker (3X)	27.1	27	—	74.3	87	—	0.0	0	—
Blaney BX-AA	27.1	—	—	97.4	—	—	0.0	—	—
Acco UC2301 (2X)	27.2	—	—	99.5	—	—	0.0	—	—
*Michigan 410-2X (2X)	27.3	27	26	112.5	130	127	0.0	1	1
*Michigan 407-2X (2X)	27.4	28	—	118.7	139	—	0.0	1	—
Warwick TX60 (Sp.)	27.5	28	28	84.9	95	95	0.0	2	2
Gutwein 10A (2X)	27.5	—	—	87.0	—	—	0.0	—	—
Stewart 2913 (2X)	27.9	—	—	84.1	—	—	0.0	—	—
Funk G4288 (3X)	28.2	—	—	106.3	—	—	1.5	—	—
*Michigan 572-3X (3X)	28.3	28	28	114.6	132	126	0.0	1	1
Super Crost W-1900 (2X)	28.3	—	—	99.9	—	—	0.0	—	—
*Cargill 449 (3X)	28.4	—	—	122.6	—	—	0.0	—	—
*Jung JX104A (2X)	28.4	—	—	115.8	—	—	0.0	—	—
Warwick SL501 (Sp.)	28.4	28	—	95.7	116	—	0.0	1	—
Trojan TX100 (3X)	28.5	—	—	91.3	—	—	1.7	—	—
*Renk RK11AA (2X)	28.6	—	—	120.3	—	—	1.5	—	—
*Funk G4444 (2X)	28.7	28	28	118.6	134	129	0.0	2	1
Super Crost S25 (2X)	28.9	30	29	98.6	115	110	0.0	3	2

(Continued)

TABLE 9. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Gutwein 40 (2X)	29.0	—	—	109.1	—	—	0.0	—	—
Super Crost 1712 (2X)	29.1	28	—	82.6	99	—	0.8	4	—
Acco UC2901 (2X)	29.1	29	—	95.5	112	—	0.0	0	—
DeKalb XL22B (Sp.)	29.1	29	29	98.6	115	114	0.0	1	1
*Cargill 860 (2X)	29.1	—	—	116.0	—	—	0.7	—	—
Migro M-1212 (2X)	29.2	—	—	102.8	—	—	0.0	—	—
*Trojan TXS102 (2X)	29.3	—	—	116.6	—	—	0.0	—	—
DeKalb XL316 (3X)	29.3	—	—	82.7	—	—	0.0	—	—
Wolverine W116 (2X)	29.5	28	28	93.6	116	115	0.0	1	0
Funk G4343 (2X)	29.5	29	—	102.2	120	—	0.0	1	—
Funk G4404 (2X)	29.6	—	—	110.8	—	—	0.0	—	—
*Funk G4321 (2X)	29.7	—	—	120.5	—	—	0.0	—	—
Cargill 846 (2X)	29.8	—	—	90.1	—	—	0.0	—	—
Cowbell SC7310 (2X)	29.9	—	—	107.4	—	—	0.0	—	—
*Funk G4384A (2X)	29.9	—	—	125.8	—	—	0.7	—	—
Asgrow RX58 (2X)	30.0	29	28	100.7	121	115	0.0	1	1
Blaney B-AA (2X)	30.1	30	—	86.3	102	—	0.8	1	—
Wolverine W176 (2X)	30.2	30	29	107.5	119	116	0.0	0	0
Muncy Chief SX440 (2X)	30.2	32	—	77.4	102	—	0.8	0	—
Gutwein 116 (3X)	30.4	—	—	79.1	—	—	1.0	—	—
Funk G4366 (3X)	30.4	—	—	109.7	—	—	0.0	—	—
Garno S94 (2X)	30.7	—	—	93.0	—	—	0.0	—	—
*Michigan 407-2X (2X)	30.7	30	29	118.0	132	132	0.0	0	0
Pioneer 3773 (2X)	30.7	30	29	91.2	104	109	0.0	2	1
Super Crost S27 (2X)	30.7	30	29	107.8	124	117	0.0	1	1
*Jung JX111 (2X)	30.8	31	—	114.8	133	—	0.0	0	—
Acco UC3201 (2X)	30.8	32	—	101.3	112	—	0.8	2	—
Pioneer 3780 (2X)	30.9	30	—	103.3	116	—	0.0	0	—
Migro M-1010 (2X)	31.0	30	30	102.1	113	109	0.0	0	0
*Blaney B701 (2X)	31.0	30	—	116.1	134	—	0.8	2	—
Michigan 511-3X (3X)	31.0	30	29	107.2	126	124	0.0	1	1
P.A.G. SX69 (2X)	31.2	—	—	111.3	—	—	0.0	—	—
Michigan 500-2X (2X)	31.2	30	29	106.5	122	123	0.0	1	1
*Acco UC3301 (2X)	31.3	31	30	123.1	138	134	0.0	2	2
DeKalb XL45A (2X)	31.3	31	31	95.0	110	117	0.0	0	0
Pride R501 (3X)	31.4	31	29	87.4	106	109	0.0	0	0
Super Crost 2772 (2X)	31.5	—	—	108.3	—	—	0.0	—	—
Migro M-1130 (2X)	31.6	—	—	114.0	—	—	0.0	—	—
Taylor Evans Marketmaker	31.7	32	30	100.7	119	117	0.8	1	1
Super Crost S29 (2X)	31.8	31	30	109.1	127	127	0.0	0	0
Garno S96 (2X)	31.9	31	—	100.4	117	—	0.9	0	—
Gutwein 27 (2X)	31.9	—	—	101.7	—	—	0.0	—	—
Wolverine W172 (2X)	32.0	—	—	99.9	—	—	0.0	—	—
*Pioneer 3518 (Sp.)	32.1	—	—	122.7	—	—	0.0	—	—
Pride R450 (2X)	32.1	32	32	90.5	117	116	0.0	0	0
Gutwein 48 (2X)	32.2	—	—	98.0	—	—	0.0	—	—
Gutwein 128 (3X)	32.2	—	—	110.8	—	—	0.0	—	—
Funk G4445 (2X)	32.2	—	—	109.4	—	—	0.0	—	—
Pride R522 (2X)	32.2	—	—	87.3	—	—	0.0	—	—
Migro M-5040 (4X)	32.7	32	31	108.3	128	126	0.0	1	0
Trojan TXS111 (2X)	32.9	—	—	106.6	—	—	0.0	—	—
Super Crost S63 (2X)	32.9	—	—	105.8	—	—	0.8	—	—
Muncy Chief SX662 (2X)	33.0	32	—	94.5	118	—	0.0	1	—
Muncy Chief SX550 (2X)	33.0	33	—	89.9	111	—	0.0	1	—
*Migro M3020 (4X)	33.2	32	—	113.1	111	—	0.0	2	—
Blaney B773 (Sp.)	33.3	33	—	108.0	119	—	0.8	3	—
Cowbell SX209 (2X)	33.3	31	—	96.3	122	—	0.0	2	—
Muncy Chief SC878 (2X)	33.4	34	—	80.4	107	—	0.0	1	—
*Muncy Chief H764 (4X)	33.5	34	—	115.7	109	—	0.0	1	—
*Garno S106X (2X)	33.8	—	—	119.5	—	—	0.0	—	—
Blaney B705 (2X)	33.9	—	—	108.9	—	—	0.0	—	—
Funk G4567 (2X)	34.2	—	—	90.2	—	—	0.0	—	—
*Migro M-0501 (2X)	35.2	34	34	112.5	120	116	0.0	1	1
Average	29.6	29	28	100.5	114	112	0.2	1	1
Range	21.8	22	22	74.3	81	78	0.0	0	0
	to	to	to	to	to	to	to	to	to
	35.2	34	34	125.8	139	134	1.7	4	2
Least significant difference	1.1	0.7	0.5	11.2	7	5			

*Significantly better than average yield in 1973.

Planted Harvested Soil type	1973	1972	1971
	April 27 Oct. 1 Conover clay loam	May 1 Oct. 10 Conover clay loam	April 30 Sept. 30 Conover clay loam
Previous crop	Corn	Corn	Corn
Population	20,200	20,000	19,700
Rows	36"	36"	36"
Fertilizer	138-36-36	155-70-70	153-70-70
Soil test: pH	6.9	6.2	6.6
P	39 (high)	101 (very high)	68 (high)
K	172 (medium)	287 (high)	223 (high)

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

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

One, Two, Three Year Averages — 1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture in ear			Tons per acre						% Ears in dry weight		
	1973	2 Yrs	3 Yrs	Green weight			Dry weight			1973	2 Yrs	3 Yrs
				1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs			
Michigan 280 (4X)	28.6	31	35	11.6	14.5	15.3	5.0	6.0	5.8	53	55	53
Super Crost 1692 (2X)	29.4	—	—	11.5	—	—	5.3	—	—	54	—	—
Michigan 275-2X (2X)	29.8	31	34	11.2	13.5	13.3	4.9	5.4	5.2	62	60	59
Michigan 333-3X (3X)	30.8	33	37	12.0	14.5	15.4	5.5	6.2	6.1	58	58	57
Stewart 2913 (2X)	32.1	—	—	12.4	—	—	5.7	—	—	57	—	—
Warwick 405 (4X)	33.6	35	38	9.2	12.7	14.3	4.4	5.2	5.2	61	57	55
Stewart 2-3102 (2X)	33.8	—	—	12.6	—	—	5.6	—	—	62	—	—
Taylor-Evans Hastymaker (4X)	34.1	37	38	10.2	12.0	11.9	4.9	5.1	4.7	54	56	55
Michigan 396-3X (3X)	34.1	36	39	12.7	17.2	17.3	6.0	6.9	6.5	57	56	54
Garno S85 (2X)	34.2	—	—	10.3	—	—	4.6	—	—	58	—	—
Taylor-Evans Profitmaker (2X)	34.3	—	—	12.4	—	—	5.1	—	—	58	—	—
Blaney B302 (2X)	34.5	—	—	12.7	—	—	5.7	—	—	57	—	—
Garno S85X (2X)	34.9	—	—	12.4	—	—	5.9	—	—	59	—	—
Funk G4195 (2X)	35.0	—	—	12.1	—	—	5.6	—	—	57	—	—
Taylor-Evans Timemaker (4X)	35.0	37	41	12.8	15.0	15.2	5.7	5.9	5.6	59	57	54
Acco UC2301 (2X)	35.8	—	—	12.7	—	—	5.6	—	—	60	—	—
Warwick SL416 (2X)	35.9	39	41	13.6	16.5	16.5	5.7	6.1	5.8	57	54	55
Funk G4252 (3X)	36.0	35	39	12.3	13.9	14.1	5.6	5.8	5.5	55	53	52
Taylor-Evans Suremaker (3X)	36.5	37	—	12.5	14.4	—	5.5	5.8	—	58	59	—
Warwick SL501 (Sp.)	36.6	39	—	11.1	15.2	—	5.2	6.2	—	58	56	—
Michigan 410-2X (2X)	36.7	38	41	15.6	19.0	19.2	6.5	7.3	7.0	57	54	53
Migro M-1101 (2X)	37.0	37	—	15.1	18.2	—	6.1	7.0	—	56	54	—
Michigan 407-2X (2X)	37.1	40	—	14.9	18.4	—	6.3	7.0	—	61	59	—
Warwick TX60 (Sp.)	37.6	39	42	12.2	14.3	14.8	5.4	5.7	5.4	53	52	50
Cargill 449 (3X)	37.9	—	—	16.0	—	—	6.8	—	—	56	—	—
Asgrow RX58 (2X)	37.9	39	42	13.6	17.0	17.4	5.9	6.6	6.4	54	56	55
Renk RK11AA (2X)	37.9	—	—	16.3	—	—	6.8	—	—	59	—	—
Jung JX104A (2X)	37.9	—	—	12.9	—	—	5.7	—	—	60	—	—
Wolverine W166 (2X)	38.0	39	42	12.1	14.5	14.8	5.5	5.9	5.5	58	57	55
Gutwein 10A (2X)	38.0	—	—	13.8	—	—	6.0	—	—	58	—	—
Gutwein 40 (2X)	38.1	—	—	14.6	—	—	6.8	—	—	55	—	—
DeKalb XL316 (3X)	38.1	—	—	12.6	—	—	5.5	—	—	55	—	—
Cargill 846 (2X)	38.1	—	—	11.9	—	—	4.6	—	—	57	—	—
Wolverine W176 (2X)	38.1	41	43	15.6	18.6	17.8	6.7	7.1	6.5	55	53	52
Michigan 572-3X (3X)	38.2	40	42	16.0	18.2	19.3	6.5	6.8	6.6	58	58	55
Super Crost 1712 (2X)	38.2	39	—	12.0	14.6	—	5.3	6.1	—	59	57	—
Super Crost S25 (2X)	38.5	41	44	16.0	18.9	19.3	6.5	7.1	6.9	58	54	52
Super Crost W1900 (2X)	38.6	—	—	14.8	—	—	6.3	—	—	55	—	—
Blaney B-AA (2X)	38.6	40	—	13.9	17.4	—	6.0	6.7	—	56	56	—
Michigan 500-2X (2X)	38.7	40	42	14.1	17.0	17.6	6.0	6.3	6.1	61	59	57
Blaney BX-AA (2X)	38.8	—	—	16.7	—	—	6.7	—	—	54	—	—
Garno S94 (2X)	38.8	—	—	14.1	—	—	5.8	—	—	57	—	—
Pride R522 (2X)	39.1	—	—	14.3	—	—	5.9	—	—	56	—	—
Funk G4343 (2X)	39.2	39	—	15.1	17.9	—	6.4	7.2	—	56	54	—
Migro M-1212 (2X)	39.2	—	—	14.4	—	—	6.3	—	—	55	—	—
Muncy Chief SX440 (2X)	39.2	44	—	11.4	18.3	—	4.7	6.0	—	59	52	—
Funk G4288 (3X)	39.3	—	—	13.6	—	—	5.9	—	—	54	—	—
DeKalb 22B (Sp.)	39.3	41	44	14.9	17.4	17.3	6.5	6.8	6.5	56	54	53
Michigan 511-3X (3X)	39.4	41	44	15.5	18.8	19.3	6.3	7.0	6.8	57	56	54
Taylor-Evans Marketmaker (2X)	39.4	43	45	13.6	16.9	17.7	6.0	6.5	6.3	56	53	52

TABLE 10. (Continued)

Hybrid (Brand — Variety)	% Moisture in ear		Tons per acre						% Ears in dry weight		
			Green weight			Dry weight					
	1973	Yrs	2	3	Yrs	2	3	Yrs	2	3	Yrs
Trojan TX100 (3X)	39.5	—	—	12.7	—	—	5.5	—	55	—	—
Migro M-1010 (2X)	39.5	42	44	14.8	17.9	18.1	6.4	6.8	56	52	52
P.A.G. SX69 (2X)	39.6	—	—	15.3	—	—	6.7	—	53	—	—
Jung JX111 (2X)	39.6	41	—	16.5	19.0	—	6.9	7.1	57	58	—
Michigan 575-2X (2X)	39.6	41	44	16.6	19.3	19.6	6.8	7.3	57	56	55
Trojan TXS102 (2X)	39.6	—	—	16.3	—	—	7.1	—	56	—	—
Acco UC2901 (2X)	39.7	41	—	14.8	17.5	—	6.0	6.5	53	53	—
Super Crost S27 (2X)	39.7	42	44	14.4	16.9	16.8	6.5	6.6	58	56	53
Acco UC3201 (2X)	39.7	41	—	14.0	17.3	—	6.4	6.6	51	50	—
Gutwein 116 (3X)	39.7	—	—	13.1	—	—	5.3	—	57	—	—
DeKalb XL45A (2X)	39.8	42	45	14.6	17.0	18.3	5.6	6.0	58	57	55
Pioneer 3780 (2X)	39.8	43	—	13.3	15.7	—	5.5	5.9	55	56	—
Funk G4321 (2X)	39.8	—	—	15.7	—	—	6.7	—	55	—	—
Funk G4404 (2X)	39.9	—	—	16.0	—	—	7.2	—	53	—	—
Funk G4384A (2X)	40.1	—	—	15.1	—	—	6.5	—	60	—	—
Cargill 860 (2X)	40.1	—	—	14.1	—	—	6.1	—	54	—	—
Funk G4444 (2X)	40.3	42	44	15.1	17.7	18.4	6.7	6.8	55	54	54
Funk G4366 (3X)	40.4	—	—	14.0	—	—	6.1	—	54	—	—
Pride R450 (2X)	40.5	42	45	17.0	19.7	19.3	7.0	7.0	54	53	51
Pride R501 (3X)	40.6	42	44	12.9	16.3	16.1	5.3	5.9	52	51	—
Wolverine W172 (2X)	40.8	—	—	16.0	—	—	6.9	—	50	—	—
Cowbell SC7310 (2X)	40.9	—	—	13.5	—	—	5.8	—	53	—	—
Super Crost 2772 (2X)	41.0	—	—	17.7	—	—	7.1	—	54	—	—
Migro M-1130 (2X)	41.0	—	—	17.0	—	—	7.2	—	52	—	—
Pioneer 3773 (2X)	41.2	42	44	15.0	17.4	17.0	6.2	6.6	58	56	53
Funk G4445 (2X)	41.7	—	—	16.2	—	—	6.0	—	53	—	—
Super Crost S29 (2X)	41.8	42	—	16.0	18.9	—	5.7	6.5	53	51	—
Acco UC3301 (2X)	41.8	43	45	14.9	18.1	18.9	6.5	7.1	52	55	49
Gutwein 27 (2X)	41.8	—	—	17.8	—	—	7.1	—	55	—	—
Gutwein 128 (3X)	41.9	—	—	17.2	—	—	7.2	—	53	—	—
Muncy Chief SX662 (2X)	41.9	43	—	17.0	19.4	—	6.1	6.6	56	52	—
P.A.G. SS195	42.2	—	—	13.2	—	—	5.3	—	55	—	—
P.A.G. 315	42.2	—	—	15.2	—	—	6.0	—	47	—	—
Migro M-3020 (4X)	42.2	43	—	19.3	19.7	—	7.3	7.1	51	49	—
Migro M-5040 (4X)	42.2	45	48	18.5	21.0	20.0	7.4	7.5	52	50	47
Muncy Chief SX550 (2X)	42.6	44	—	13.6	17.3	—	5.1	5.9	55	55	—
Cowbell SX209 (2X)	42.6	43	—	17.7	18.4	—	6.8	6.7	52	51	—
Pioneer 3518 (Sp.)	43.1	—	—	16.6	—	—	6.3	—	58	—	—
Muncy Chief H764 (4X)	43.8	46	—	18.6	21.8	—	6.7	6.9	49	46	—
Garno S96 (2X)	44.1	46	—	15.8	18.9	—	5.6	6.4	56	49	—
Blaney B701 (2X)	44.9	42	—	18.2	19.9	—	6.6	7.0	52	53	—
Blaney B773 (Sp.)	45.2	45	—	15.0	19.2	—	5.6	6.8	56	51	—
Blaney B705 (2X)	45.6	—	—	20.9	—	—	7.4	—	50	—	—
Funk G4567 (3X)	45.7	—	—	17.3	—	—	6.1	—	46	—	—
Super Crost S63 (2X)	46.4	—	—	18.4	—	—	7.1	—	54	—	—
Garno S106X (2X)	46.5	—	—	20.1	—	—	7.0	—	48	—	—
Cargill HS50	46.5	—	—	16.9	—	—	5.6	—	48	—	—
Gutwein 48 (2X)	47.2	—	—	18.3	—	—	7.0	—	48	—	—
Muncy Chief SC878 (2X)	47.3	47	—	17.1	20.9	—	5.9	6.8	45	45	—
Trojan TXS111 (2X)	50.3	—	—	22.0	—	—	7.2	—	45	—	—
Migro M-0501 (2X)	53.0	53	55	22.6	23.6	23.5	7.3	7.5	43	42	40
Average	39.3	40	42	14.9	17.3	17.2	6.1	6.5	55	54	53
Range	28.6	31	34	9.2	12.0	11.9	4.4	5.1	43	42	40
	53.0	53	55	22.6	23.6	23.5	7.4	7.6	62	60	59
Least significant difference	1.4	0.9	0.7	1.5	0.8	0.6	0.5	0.4	3	2	3

	1973	1972	1971
Planted	April 27	May 1	April 30
Harvested	Sept. 6	Sept. 7	Sept. 1
Soil type	Conover clay loam	Conover clay loam	Conover clay loam
Previous Crop	Corn	Corn	Corn
Population	19,600	19,200	20,000
Rows	36"	36"	36"
Fertilizer	138-36-36	155-70-70	183-66-66
Soil test: pH	6.9	6.2	6.6
P	39 (high)	101 (very high)	68 (high)
K	172 (medium)	287 (high)	223 (high)

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

Table 11. SOUTH CENTRAL MICHIGAN Zone 2
HIGH LYSINE vs. NORMAL HYBRIDS —
INGHAM AND KENT COUNTY TRIALS
1973

Hybrid (Brand — Variety)	% Moisture		Bushels per acre		% Stalk lodging	
	Ingham	Kent	Ingham	Kent	Ingham	Kent
High Lysine Hybrids						
Todd HL38 (2X)	35.3	26.9	95.6	124.8	0.0	1.0
Gutwein HL26 (2X)	35.9	26.5	82.2	125.1	3.5	0.0
Blaney B701-HL (2X)	36.2	27.6	70.6	125.4	0.0	5.0
Funk 24599-HL (3X)	36.5	30.6	89.2	124.6	0.0	2.0
Todd HL66 (2X)	38.0	33.6	88.9	128.6	1.0	0.0
Average — High Lysines	36.4	29.0	85.3	125.7	0.9	1.6
Normal Hybrids						
Gutwein 8 (2X)	28.9	23.2	108.5	138.4	1.0	2.0
Blaney B701 (2X)	31.7	25.1	97.9	145.6	3.6	3.0
Funk G4404 (2X)	32.9	24.0	109.9	146.1	0.0	1.0
Todd M38A (2X)	33.8	25.0	123.4	140.3	0.0	1.3
Todd M66A (2X)	35.0	29.2	102.6	141.7	0.8	0.0
Average — Normals	32.5	25.3	108.5	142.4	1.1	1.5
Least significant difference	1.3	1.0	9.7	12.6		

	Ingham	Kent
Planted	May 19	May 17
Harvested	Oct. 8	Nov. 2
Soil type	Conover loam	Belville loam
Previous Crop	Corn	Corn
Population	20,200	22,300
Rows	36"	30"
Fertilizer	143-45-45	123-58-120, manure
Soil test: pH	6.1	7.2
P	28 (medium)	53 (very high)
K	130 (medium)	337 (very high)

Farm Cooperators: Michigan State University, East Lansing
Gerald Kayser, Caledonia

TABLE 12. NORTH CENTRAL MICHIGAN Zone 3
SANILAC COUNTY TRIAL
One, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Michigan 280 (4X)	22.4	24	24	99.0	113	105	10.9	7	5
Asgrow RX35A (2X)	23.4	24	25	97.0	103	97	10.9	6	4
Funk G4195 (3X)	23.6	—	—	110.0	—	—	21.1	—	—
Michigan 275-2X (2X)	23.7	24	24	103.6	114	105	12.7	8	6
Garno S80-X (2X)	23.9	24	26	84.9	96	98	18.2	9	6
Acco U314 (3X)	24.3	—	—	85.6	—	—	20.1	—	—
Asgrow XX31	24.4	—	—	81.2	—	—	5.2	—	—
Michigan 333-3X (3X)	24.4	25	27	114.6	126	120	4.4	3	2
Blaney B200 (2X)	24.5	—	—	109.7	—	—	6.5	—	—
Asgrow RX30 (2X)	24.7	—	—	80.2	—	—	11.2	—	—
Pioneer 3909 (2X)	25.1	26	27	115.7	123	110	6.6	6	4
Garno S85 (2X)	25.1	26	27	112.4	124	116	15.3	8	5
Garno S85X (2X)	25.3	—	—	124.6	—	—	17.6	—	—
Trojan TX90 (3X)	25.3	—	—	94.4	—	—	6.5	—	—
Cargill 830 (2X)	25.4	—	—	117.7	—	—	4.0	—	—
Blaney B302 (2X)	25.4	26	—	122.4	126	—	2.3	2	—
Asgrow RX42 (2X)	25.4	26	—	118.3	128	—	4.5	3	—
Super Crost 1692 (2X)	25.6	—	—	123.4	—	—	6.1	—	—
P.A.G. SX67 (2X)	25.7	27	—	106.0	123	—	3.2	2	—
Blaney B401 (2X)	25.7	—	—	130.2	—	—	7.2	—	—
Pioneer 3956A (2X)	25.8	—	—	103.9	—	—	18.9	—	—
Cowbell SX102 (2X)	25.8	27	—	131.5	136	—	2.2	1	—
Pioneer X9379A (3X)	25.9	—	—	115.4	—	—	0.6	—	—
Pride R252 (2X)	26.0	—	—	90.0	—	—	1.2	—	—
DeKalb XL304 (3X)	26.2	27	—	111.0	127	—	23.9	13	—
Renk RK6 (2X)	26.3	27	—	117.9	132	—	1.8	1	—
Michigan 396-3X (3X)	26.3	27	28	137.0	141	130	9.3	5	3
Acco UC2301 (2X)	26.3	—	—	140.7	—	—	4.6	—	—
Acco UC1902 (2X)	26.3	—	—	115.4	—	—	8.8	—	—
Oxy 362 (2X)	26.3	27	29	112.6	118	107	8.6	5	3

(Continued)

TABLE 12. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Pioneer 3937 (3X)	26.3	27	—	128.5	130	—	5.1	3	—
Funk G4252 (3X)	26.5	—	—	130.8	—	—	3.5	—	—
Trojan TXS92 (2X)	26.5	—	—	109.7	—	—	5.4	—	—
Acco U326 (3X)	26.6	—	—	128.7	—	—	14.5	—	—
Super Crost 1712 (2X)	26.6	—	—	136.9	—	—	12.5	—	—
Migro M-1101 (2X)	26.6	29	—	121.2	132	—	1.2	1	—
*Michigan 410-2X (2X)	26.9	28	29	143.7	146	139	9.0	5	3
*Michigan 407-2X (2X)	27.1	30	—	154.0	157	—	10.3	6	—
DeKalb XL12 (2X)	27.2	27	27	103.4	113	111	5.9	3	2
Oxy E16 (4X)	27.2	29	29	105.7	104	95	18.8	10	7
*Asgrow RX53 (2X)	27.3	29	31	149.5	150	133	3.3	2	1
Cargill 846 (2X)	27.5	—	—	109.1	—	—	4.1	—	—
Pioneer 3784 (2X)	27.6	29	30	133.8	137	129	1.2	1	1
Funk G4343 (2X)	27.6	—	—	130.2	—	—	4.6	—	—
*Super Crost S25 (2X)	27.7	—	—	158.7	—	—	13.4	—	—
Blaney B501A (2X)	28.1	31	—	129.7	138	—	2.2	2	—
Trojan TX100 (3X)	28.1	—	—	136.1	—	—	8.6	—	—
Funk G4288 (3X)	28.1	—	—	131.1	—	—	10.8	—	—
*Pioneer 3773 (2X)	28.1	30	31	146.6	151	137	10.4	6	4
DeKalb XL21 (2X)	28.1	31	—	129.5	136	—	6.3	3	—
*Pride R290 (2X)	28.2	29	31	148.7	144	134	2.3	2	1
*Funk G4366 (3X)	28.4	—	—	152.4	—	—	5.1	—	—
Garno S94 (2X)	28.5	—	—	133.2	—	—	6.5	—	—
Oxy 26 (4X)	28.5	—	—	121.8	—	—	5.2	—	—
*Michigan 572-3X (3X)	28.7	31	32	149.5	150	138	1.2	1	1
*Funk G4404 (2X)	28.7	—	—	152.3	—	—	5.6	—	—
*Migro M-1212 (2X)	29.2	—	—	158.0	—	—	0.6	—	—
*Michigan 511-3X (3X)	29.5	31	32	149.1	150	138	5.1	3	2
*Funk G4321 (2X)	29.7	—	—	159.4	—	—	2.3	—	—
*Michigan 500-2X (2X)	29.8	31	32	143.7	144	134	2.4	2	1
*Funk G4384A (2X)	30.0	—	—	162.9	—	—	2.8	—	—
*Blaney 6616 (Sp.)	30.1	—	—	149.7	—	—	1.1	—	—
Blaney B-AA (2X)	30.2	33	—	134.0	143	—	3.6	2	—
Asgrow RX58 (2X)	30.2	32	—	132.4	131	—	1.1	1	—
P.A.G. SX69 (2X)	30.2	—	—	125.8	—	—	7.3	—	—
*Funk G4444 (2X)	30.4	33	33	149.7	149	137	1.7	1	1
*Cargill 863 (2X)	30.5	—	—	143.0	—	—	0.6	—	—
*Northrup King PX50A (2X)	30.5	—	—	145.4	—	—	3.5	—	—
DeKalb XL22 (2X)	31.1	—	—	116.9	—	—	2.4	—	—
*Migro M-1130 (2X)	31.6	—	—	161.8	—	—	4.6	—	—
*Super Crost S27 (2X)	31.7	—	—	162.6	—	—	1.1	—	—
P.A.G. SX53 (2X)	31.7	—	—	130.5	—	—	2.3	—	—
*Garno S94A (2X)	31.8	—	—	162.2	—	—	2.8	—	—
*Oxy 420 (2X)	31.8	—	—	158.8	—	—	3.4	—	—
*Acco UC3201 (2X)	32.7	—	—	165.0	—	—	4.7	—	—
*Migro M-0501 (2X)	33.0	—	—	162.5	—	—	1.6	—	—
Average	27.6	28	29	129.0	132	121	6.6	4	3
Range	22.4	24	24	80.2	96	95	0.6	1	1
	33.0	33	33	165.0	157	139	23.9	13	7

Least significant
difference

1.1 0.7 0.6 13.5 7 5

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 22	May 11	May 11
Harvested	Oct. 31	Nov. 3	Oct. 20
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	20,100	20,000	19,800
Rows	30"	30"	30"
Fertilizer	118-72-72	115-60-60	143-72-72
Soil test: pH	6.6	6.6	6.2
P	47 (very high)	46 (very high)	85 (very high)
K	229 (high)	267 (high)	214 (high)

Farm Cooperator: Orville Orchard, Applegate

County Extension Director: Rex Sieting, Sandusky

Table 13. NORTH CENTRAL MICHIGAN Zone 3
SAGINAW COUNTY TRIALOne, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Asgrow RX30 (2X)	18.6	—	—	84.9	—	—	1.2	—	—
Northrup King PX476 (3X)	19.0	22	—	82.0	104	—	0.6	3	—
Blaney B200 (2X)	19.0	—	—	101.8	—	—	7.4	—	—
Teweles SXT17 (2X)	19.2	—	—	103.2	—	—	1.1	—	—
Michigan 280 (4X)	19.2	21	21	100.4	116	106	5.2	8	5
Blaney B302 (2X)	19.3	22	—	108.8	127	—	0.0	1	—
Asgrow RX42 (2X)	19.3	22	—	101.1	129	—	2.8	5	—
Michigan 275-2X (2X)	19.4	21	21	99.4	110	101	8.3	11	8
Funk G4195 (3X)	20.0	—	—	95.4	—	—	1.6	—	—
Super Crost 1692 (2X)	20.0	—	—	97.7	—	—	1.6	—	—
Super Crost W-1900 (2X)	20.1	—	—	111.0	—	—	3.4	—	—
Garno S85X (2X)	20.2	—	—	104.4	—	—	2.7	—	—
Bayless SX4395 (2X)	20.2	24	—	90.2	121	—	0.0	0	—
Michigan 333-3X (3X)	20.5	22	23	106.8	122	114	1.3	2	1
Funk G4252 (3X)	20.5	23	22	94.2	120	110	7.1	5	4
Warwick TX27 (3X)	20.5	—	—	86.7	—	—	1.7	—	—
Blaney BX-AA (2X)	20.5	24	24	96.5	134	126	1.1	1	1
Jacques JX162A (2X)	20.6	25	25	109.9	139	132	0.0	0	0
Warwick SL416 (2X)	20.6	23	23	103.4	110	99	0.0	1	1
Migro M-1101 (2X)	20.8	24	—	112.6	130	—	0.0	0	—
Michigan 396-3X (3X)	20.8	22	23	109.4	128	118	2.4	6	4
Pioneer 3956A (2X)	20.8	—	—	94.5	—	—	7.0	—	—
Acco UC1902 (2X)	20.9	—	—	80.9	—	—	0.6	—	—
Gutwein 10A (2X)	20.9	23	23	97.5	121	104	2.2	3	2
Pioneer 3958 (2X)	21.2	—	—	93.7	—	—	0.0	—	—
Bayless 3X219-3 (3X)	21.2	24	—	90.5	127	—	1.1	2	—
Michigan 410-2X (2X)	21.2	23	24	112.5	131	125	3.2	2	1
Funk G4404 (2X)	21.3	—	—	94.5	—	—	1.1	—	—
Garno S94 (2X)	21.3	25	—	101.0	132	—	1.6	3	—
Acco UC2301 (2X)	21.3	—	—	107.4	—	—	0.0	—	—
Pioneer X9379A (3X)	21.4	—	—	94.8	—	—	1.1	—	—
Warwick SL501 (Sp.)	21.4	—	—	100.7	—	—	3.8	—	—
Warwick 405 (4X)	21.4	23	23	87.9	111	98	0.6	3	2
Northrup King PX519 (Sp.)	21.6	25	25	92.3	117	103	1.7	1	1
Super Crost 1712 (2X)	21.6	24	—	90.9	109	—	0.6	1	—
Renk RK6 (2X)	21.9	—	—	97.0	—	—	1.2	—	—
DeKalb XL21 (2X)	21.9	—	—	105.6	—	—	2.3	—	—
Funk G4343 (2X)	22.0	25	—	97.1	120	—	1.6	1	—
Wolverine W170 (2X)	22.1	26	26	106.6	127	117	1.7	1	1
*Michigan 407-2X (2X)	22.1	24	—	120.8	145	—	5.8	4	—
DeKalb XL12 (2X)	22.2	23	23	102.0	114	102	3.5	4	3
Super Crost S25 (2X)	22.2	25	25	111.5	142	126	1.1	1	0
Muncy Chief H401 (4X)	22.2	—	—	90.5	—	—	1.1	—	—
*Migro M-1212 (2X)	22.3	—	—	115.9	—	—	5.1	—	—
Acco UC2901 (2X)	22.3	—	—	93.7	—	—	3.9	—	—
Muncy Chief SX440 (2X)	22.3	28	—	83.3	122	—	3.0	2	—
Wolverine W172 (2X)	22.3	26	—	98.1	129	—	1.1	1	—
Funk G4288 (3X)	22.5	—	—	111.1	—	—	1.1	—	—
Asgrow RX53 (2X)	22.5	25	—	110.5	133	—	2.8	2	—
Pioneer 3784 (2X)	22.6	24	23	103.9	127	117	0.0	1	1
Northrup King PX525 (3X)	22.6	24	25	106.0	116	109	4.3	8	5
Muncy Chief H304 (4X)	22.7	25	—	87.4	113	—	5.5	4	—
*Pioneer 3773 (2X)	22.7	24	25	113.9	133	120	0.6	4	3
Funk G4366 (3X)	22.8	—	—	111.6	—	—	3.8	—	—
Northrup King PX47E (2X)	22.9	—	—	108.2	—	—	1.1	—	—
*Michigan 572-3X (3X)	23.0	25	25	113.1	142	133	3.0	3	2
Pride R501 (3X)	23.2	—	—	95.3	—	—	2.8	—	—
*Wolverine W166 (2X)	23.3	25	24	114.9	120	111	0.0	6	4
Pioneer 3780 (2X)	23.3	26	—	111.0	137	—	0.0	0	—
Teweles TXT61A (3X)	23.5	—	—	100.3	—	—	0.6	—	—
*Blaney B701 (2X)	23.5	25	—	124.5	143	—	9.4	7	—
DeKalb XL43 (2X)	23.5	—	—	101.5	—	—	1.2	—	—
Garno S92 (2X)	23.5	25	25	100.9	128	115	2.8	3	2
Michigan 511-3X (3X)	23.6	26	26	106.6	131	126	1.1	3	2
Wolverine W176 (2X)	23.9	27	27	100.2	126	114	0.0	1	1
Bayless SX1795 (2X)	24.1	26	—	111.9	141	—	0.0	1	—
*Bayless SX434 (2X)	24.3	27	—	118.6	141	—	1.1	1	—
Bayless SX434-3 (2X)	24.3	—	—	102.9	—	—	0.5	—	—
Funk G4321 (2X)	24.4	—	—	107.5	—	—	0.6	—	—
*Blaney B705 (2X)	24.4	—	—	123.8	—	—	2.8	—	—

(Continued)

TABLE 13. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	2		3	2		3	2		3
	1973	Yrs	Yrs	1973	Yrs	Yrs	1973	Yrs	Yrs
Garno S96 (2X)	24.4	27	26	106.3	131	116	1.2	2	1
*Funk G4444 (2X)	24.5	27	27	113.9	142	134	0.0	0	0
*Asgrow RX58 (2X)	24.5	—	—	123.5	—	—	1.7	—	—
*Super Crost S27 (2X)	24.8	28	27	116.1	139	128	1.1	1	1
*Funk G4384A (2X)	24.8	—	—	121.4	—	—	1.6	—	—
Pride R522 (2X)	24.8	—	—	89.6	—	—	2.2	—	—
*Trojan TXS102 (2X)	25.0	26	26	120.6	143	134	2.8	3	2
*Trojan TXS108A (2X)	25.1	—	—	114.1	—	—	1.7	—	—
*Michigan 575-2X (2X)	25.4	27	27	123.7	147	136	0.6	1	1
*Northrup King PX50A (2X)	25.4	27	28	119.6	146	130	2.1	1	1
Michigan 500-2X (2X)	25.5	27	26	109.0	132	129	5.5	6	4
*Migro M-0501 (2X)	25.6	—	—	119.7	—	—	0.0	—	—
*Acco UC3201 (2X)	25.6	28	—	114.3	136	—	0.6	1	—
Blaney B773 (Sp.)	25.7	28	—	100.2	127	—	2.3	2	—
Migro M-1130 (2X)	25.7	—	—	104.7	—	—	1.2	—	—
P.A.G. SX69 (2X)	25.8	—	—	106.2	—	—	2.2	—	—
Blaney B-AA (2X)	25.8	27	27	107.0	132	119	2.2	2	1
DeKalb XL22 (2X)	26.0	28	28	106.3	133	118	1.7	1	1
*King Row KRX501 (2X)	26.1	28	27	114.2	135	115	1.7	2	2
*Acco UC3301 (2X)	26.3	28	28	125.5	142	134	2.2	2	1
P.A.G. SX53 (2X)	26.4	28	28	104.6	117	117	1.1	3	2
DeKalb XL44 (2X)	26.6	29	29	110.7	117	115	1.2	1	1
Muncy Chief SC550 (2X)	28.4	30	—	89.2	109	—	1.7	2	—
Average	22.8	25	25	104.3	128	118	2.1	2	2
Range	18.6	21	21	80.9	104	98	0.0	0	0
	28.4	30	29	125.5	147	136	8.3	11	8
Least significant difference	0.8	0.7	0.7	8.7	6	4			

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 14	April 28	May 3
Harvested	Oct. 27	Oct. 31	Oct. 18
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Beets	Corn
Population	20,300	20,200	19,800
Rows	30"	30"	30"
Fertilizer	169-96-48	130-60-60	168-108-54
Soil test: pH	7.6	7.5	7.1
P	70 (very high)	53 (very high)	66 (very high)
K	348 (very high)	321 (very high)	299 (high)

Farm Cooperator: Walter Reinbold & Sons, Reese

County Extension Director: Ray Vasold, Saginaw

Table 14. NORTH CENTRAL MICHIGAN Zone 3
GRAIN — HURON COUNTY TRIAL
One, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	2		3	2		3	2		3
	1973	Yrs	Yrs	1973	Yrs	Yrs	1973	Yrs	Yrs
Stewart 2501 (2X)	17.8	—	—	86.8	—	—	1.7	—	—
Asgrow RX35A (3X)	18.0	—	—	95.3	—	—	5.6	—	—
Asgrow RX30 (2X)	18.1	—	—	88.2	—	—	3.2	—	—
Michigan 280 (4X)	18.3	22	22	101.1	111	119	4.2	6	4
Garno S80-X (2X)	18.6	—	—	103.4	—	—	1.6	—	—
Asgrow RX42 (2X)	19.2	23	—	105.1	118	—	3.1	3	—
Michigan 275-2X (2X)	19.4	22	22	107.0	105	108	4.4	8	7
Northrup King PX448 (3X)	19.8	—	—	90.1	—	—	2.4	—	—
Funk G4195 (3X)	19.9	—	—	94.3	—	—	3.2	—	—
Garno S85 (2X)	20.2	—	—	92.3	—	—	0.8	—	—
Northrup King PX20 (2X)	20.2	23	—	109.0	107	—	0.8	5	—
Jacques JX62 (2X)	20.2	24	—	106.6	114	—	3.9	3	—
Garno S85X (2X)	20.6	—	—	104.1	—	—	4.0	—	—
Super Crost 1692 (2X)	20.6	—	—	94.0	—	—	3.1	—	—
Michigan 333-3X (3X)	20.3	23	24	112.8	115	126	4.3	4	2
Mioneer X9379A (3X)	20.8	—	—	91.1	—	—	3.2	—	—
Oxy 362 (2X)	20.8	24	25	111.8	104	109	1.5	4	3
Funk G4252 (3X)	21.0	24	25	103.4	98	110	6.3	8	5
Super Crost W1900 (2X)	21.1	—	—	115.7	—	—	1.5	—	—
Michigan 396-3X (3X)	21.6	24	25	121.3	121	130	1.5	2	2

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	2		3	2		3	2		3
	1973	Yrs	Yrs	1973	Yrs	Yrs	1973	Yrs	Yrs
Pioneer 3956A (2X)	21.6	—	—	91.2	—	—	5.7	—	—
Gutwein 10A (2X)	21.7	—	—	87.3	—	—	2.4	—	—
Gutwein 40 (2X)	21.7	—	—	102.9	—	—	0.0	—	—
Acco UC2301 (2X)	21.7	—	—	109.3	—	—	11.0	—	—
DeKalb XL12 (2X)	21.8	25	26	100.2	111	121	2.3	2	2
Gutwein 8 (2X)	21.8	—	—	101.8	—	—	0.8	—	—
P.A.G. SX67 (2X)	21.9	—	—	119.6	—	—	2.4	—	—
Super Crost 1712 (2X)	21.9	—	—	97.2	—	—	9.0	—	—
*Michigan 407-2X (2X)	21.9	26	—	126.7	137	—	6.1	4	—
Asgrow RX53 (2X)	22.0	25	—	114.2	121	—	2.3	1	—
Migro M-1101 (2X)	22.1	26	—	102.5	113	—	1.6	6	—
*Michigan 410-2X (2X)	22.1	25	26	126.1	128	141	1.6	2	1
Acco UC2901 (2X)	22.2	—	—	113.3	—	—	0.0	—	—
*Super Crost S25 (2X)	22.2	27	28	131.8	138	144	1.6	2	1
Oxy E22 (4X)	22.5	24	—	89.8	100	—	5.4	4	—
Jacques JX162A (2X)	22.5	28	28	103.9	115	129	0.8	1	1
*Jacques JX122A (2X)	22.6	—	—	127.7	—	—	1.5	—	—
*Michigan 572-3X (3X)	22.6	26	27	133.4	137	148	1.6	3	2
Northrup King PX519 (3X)	22.8	28	—	122.2	125	—	0.0	0	—
*Migro M-1212 (2X)	22.8	—	—	128.1	—	—	5.4	—	—
Funk G4288 (3X)	22.8	—	—	117.4	—	—	0.8	—	—
P.A.G. SX53 (2X)	22.9	—	—	109.7	—	—	7.0	—	—
Pride X2400 (2X)	23.0	—	—	91.3	—	—	0.8	—	—
*Pioneer 3784 (2X)	23.0	26	—	123.6	131	—	0.0	0	—
Trojan TX100 (3X)	23.1	26	—	113.8	119	—	0.0	1	—
Garno S94 (2X)	23.1	—	—	101.0	—	—	0.0	—	—
Trojan TXS92 (2X)	23.2	—	—	117.8	—	—	0.8	—	—
Wolverine W172 (2X)	23.3	—	—	109.1	—	—	0.0	—	—
Funk G4343 (2X)	23.4	—	—	103.9	—	—	2.4	—	—
*Funk G4404 (2X)	23.6	—	—	135.4	—	—	0.0	—	—
Gutwein 48 (2X)	23.9	—	—	111.7	—	—	0.0	—	—
Garno S92 (2X)	24.1	—	—	102.1	—	—	2.3	—	—
Pioneer 3780 (2X)	24.1	28	—	116.8	116	—	0.0	1	—
Wolverine W176 (2X)	24.3	—	—	105.2	—	—	1.6	—	—
*Funk G4444 (2X)	24.3	28	29	137.3	143	142	4.0	7	5
Gutwein 116 (3X)	24.6	—	—	110.4	—	—	4.8	—	—
Super Crost S27 (2X)	24.8	29	29	120.1	134	145	2.4	3	2
Funk G4366 (3X)	24.8	—	—	118.1	—	—	0.8	—	—
Michigan 511-3X (3X)	24.9	28	29	117.6	126	135	3.1	2	1
*Gutwein 27 (2X)	25.0	—	—	128.9	—	—	1.4	—	—
*Funk G4321 (2X)	25.1	—	—	130.7	—	—	0.8	—	—
Oxy 420 (2X)	25.2	29	29	117.9	129	134	0.0	0	0
*Michigan 500-2X (2X)	25.3	29	29	124.5	134	145	2.3	2	1
*Gutwein 128 (3X)	25.4	—	—	125.6	—	—	0.8	—	—
Northrup King PX50A (2X)	25.5	—	—	116.3	—	—	0.0	—	—
Trojan TXS102 (2X)	25.6	29	—	119.8	133	—	0.0	0	—
Acco UC3201 (2X)	25.7	—	—	116.0	—	—	3.8	—	—
*Migro M-1130 (2X)	25.9	—	—	124.3	—	—	0.0	—	—
P.A.G. SX69 (2X)	25.9	27	—	104.3	113	—	0.0	3	—
Pride R501 (3X)	26.4	—	—	99.4	—	—	0.0	—	—
DeKalb XL22 (2X)	26.7	29	30	117.5	121	137	1.6	2	3
*Trojan TXS108A (2X)	27.4	—	—	133.8	—	—	4.0	—	—
Migro M-0501 (2X)	28.8	—	—	130.3	—	—	0.0	—	—
Average	22.8	26	27	111.2	121	131	2.2	3	2
Range	17.8	22	22	86.8	98	108	0.0	0	0
	28.8	29	30	137.3	143	148	11.0	8	7
Least significant difference	0.9	0.8	0.6	10.8	7	5			

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 16	April 29	May 4
Harvested	Oct. 24	Oct. 25	Oct. 14
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	19,900	19,000	20,000
Rows	30"	30"	30"
Fertilizer	198-115-120	165-80-0	168-92-120
Soil test: pH	7.0	7.2	6.9
P	74 (very high)	53 (very high)	72 (very high)
K	472 (very high)	255 (high)	292 (high)

Farm Cooperator: William McCrea, Bad Axe

County Extension Director: Lee Warschewsky, Bad Axe

Table 15. NORTH CENTRAL MICHIGAN Zone 3
SILAGE — HURON COUNTY TRIAL
 One, Two, Three Year Averages — 1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture in ear			Tons per acre						% Ears in dry weight		
				Green weight			Dry weight					
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Stewart 2501 (2X)	27.3	—	—	8.2	—	—	5.1	—	—	63	—	—
Asgrow RX30 (2X)	28.6	—	—	11.4	—	—	6.4	—	—	48	—	—
Michigan 280 (4X)	29.1	34	36	13.2	15.4	17.8	6.7	6.8	7.2	58	58	58
Michigan 275-2X (2X)	29.5	34	35	12.6	12.6	13.9	6.6	6.6	6.1	54	58	59
Northrup King PX20 (2X)	31.1	35	—	11.9	12.7	—	6.8	6.3	—	56	59	—
Pioneer 3956A (2X)	32.4	—	—	10.6	—	—	6.4	—	—	57	—	—
Asgrow RX35A (3X)	32.6	—	—	10.7	—	—	5.7	—	—	62	—	—
Northrup King PX448 (3X)	32.9	—	—	10.6	—	—	5.8	—	—	63	—	—
Garno S85 (2X)	33.3	—	—	11.3	—	—	6.1	—	—	58	—	—
Garno S80X (2X)	33.8	—	—	11.6	—	—	6.6	—	—	61	—	—
Oxy 362 (2X)	34.3	38	40	15.4	16.5	18.0	7.4	7.0	7.2	60	59	59
Pioneer X9379A (3X)	34.4	—	—	9.9	—	—	5.7	—	—	57	—	—
Michigan 333-3X (3X)	34.5	38	39	13.0	15.9	17.6	6.8	6.8	7.2	59	57	59
Asgrow RX42 (2X)	34.6	39	—	11.8	14.4	—	6.7	6.4	—	58	58	—
Garno S85X (2X)	34.8	—	—	11.8	—	—	6.3	—	—	64	—	—
P.A.G. SX67 (2X)	34.9	—	—	14.7	—	—	7.3	—	—	56	—	—
Funk G4195 (3X)	34.9	—	—	13.2	—	—	6.5	—	—	58	—	—
Funk G4252 (3X)	35.1	39	40	11.9	12.6	15.1	6.0	5.5	6.2	58	56	57
Super Crost 1692 (2X)	35.4	—	—	12.3	—	—	6.3	—	—	62	—	—
Michigan 396-3X (3X)	35.6	40	40	14.6	17.2	18.5	7.0	7.0	7.2	57	56	59
Oxy E22 (4X)	35.9	40	—	11.7	13.6	—	5.9	5.7	—	62	60	—
DeKalb XL12 (2X)	37.1	42	—	12.4	14.8	—	6.5	6.3	—	58	58	—
Gutwein 8 (2X)	37.2	—	—	11.7	—	—	6.0	—	—	62	—	—
Asgrow RX53 (2X)	37.3	41	—	14.8	16.6	—	7.1	6.8	—	60	57	—
Michigan 407-2X (2X)	37.3	41	—	14.7	17.3	—	7.3	7.1	—	60	58	—
Super Crost 1712 (2X)	37.4	—	—	12.2	—	—	5.9	—	—	56	—	—
Jacques JX162A (2X)	37.4	46	47	13.3	17.9	19.1	7.0	7.0	7.1	56	51	50
Michigan 410-2X (2X)	37.4	41	42	15.9	17.8	20.4	7.1	7.0	7.5	56	55	57
Super Crost W1900 (2X)	37.4	—	—	16.9	—	—	6.8	—	—	57	—	—
Oxy 420 (2X)	37.5	42	44	16.0	17.8	18.6	7.4	7.0	7.1	56	54	55
Migro M-1101 (2X)	37.7	41	—	13.6	16.7	—	6.4	6.7	—	56	54	—
Trojan TXS 92 (2X)	37.8	—	—	10.9	—	—	5.2	—	—	55	—	—
Jacques JX62 (2X)	37.9	40	—	13.7	15.5	—	6.5	6.7	—	61	58	—
Garno S92 (2X)	38.0	—	—	16.8	—	—	7.5	—	—	53	—	—
Funk G4343 (2X))	38.2	—	—	12.7	—	—	6.6	—	—	54	—	—
Acco UC2901 (2X)	38.2	—	—	16.5	—	—	7.5	—	—	55	—	—
Michigan 572-3X (3X)	38.2	43	44	16.9	19.3	21.5	7.7	7.5	7.9	53	55	54
Gutwein 10A (2X)	38.2	—	—	15.2	—	—	7.5	—	—	53	—	—
Funk G4288 (3X)	38.2	—	—	13.8	—	—	6.6	—	—	60	—	—
Jacques JX122A (2X)	38.2	—	—	16.2	—	—	7.5	—	—	61	—	—
Pioneer 3784 (2X)	38.3	42	—	13.9	16.2	—	6.9	6.9	—	58	57	—
Michigan 511-3X (3X)	38.3	—	—	15.9	—	—	7.3	—	—	55	—	—
Migro M-1130 (2X)	38.3	—	—	15.1	—	—	6.7	—	—	53	—	—
Acco UC2301 (2X)	38.3	—	—	14.6	—	—	6.8	—	—	59	—	—
Gutwein 40 (2X)	38.4	—	—	16.4	—	—	8.0	—	—	47	—	—

Hybrid (Brand — Variety)	% Moisture in ear			Tons per acre						% Ears in Dry Weight		
				Green weight			Dry weight					
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Super Crost S27 (2X)	38.9	42	43	12.5	16.6	19.0	6.2	6.7	7.3	57	56	55
Funk G4404 (2X)	39.0	—	—	15.6	—	—	7.3	—	—	56	—	—
Northrup King PX519 (3X)	39.3	44	—	14.3	17.2	—	6.7	6.6	—	56	53	—
Gutwein 128 (3X)	39.4	—	—	17.5	—	—	8.0	—	—	49	—	—
DeKalb XL22 (2X)	39.7	44	44	16.1	17.7	18.9	7.4	7.1	7.3	59	55	57
Funk G4444 (2X)	39.8	44	45	16.8	19.0	20.7	8.0	7.6	7.9	51	51	53
Acco UC3201 (2X)	39.8	—	—	13.8	—	—	6.3	—	—	56	—	—
Michigan 500-2X (2X)	39.9	44	44	15.2	17.2	19.5	6.9	6.8	7.1	59	58	58
Trojan TX100 (3X)	40.2	41	—	15.0	16.7	—	7.1	6.8	—	56	55	—
Wolverine W176 (2X)	40.3	—	—	15.6	—	—	7.0	—	—	49	—	—
Pride X2400 (2X)	40.4	—	—	14.4	—	—	6.4	—	—	50	—	—
Funk G4321 (2X)	40.5	—	—	17.0	—	—	7.5	—	—	56	—	—
Trojan TXS102 (2X)	40.6	44	—	14.3	18.1	—	6.7	7.1	—	58	58	—
Funk G4366 (3X)	40.6	—	—	15.3	—	—	7.0	—	—	52	—	—
Garno S94	41.1	—	—	15.8	—	—	7.1	—	—	55	—	—
Migro M-1212 (2X)	41.3	—	—	17.5	—	—	7.5	—	—	57	—	—
Northrup King PX50A (2X)	41.9	—	—	17.5	—	—	7.9	—	—	54	—	—
Pioneer 3780 (2X)	42.2	46	—	14.9	16.8	—	6.8	6.7	—	55	52	—
P.A.G. SX69 (2X)	42.3	—	—	13.4	—	—	5.8	—	—	54	—	—
Gutwein 116 (3X)	42.3	—	—	18.1	—	—	7.4	—	—	56	—	—
Pride R501 (3X)	42.7	—	—	15.4	—	—	6.9	—	—	53	—	—
Super Crost S25 (2X)	43.0	47	48	17.5	21.1	22.1	7.6	7.4	7.7	54	50	50
P.A.G. SX53 (2X)	43.1	—	—	16.2	—	—	6.7	—	—	55	—	—
Wolverine W172 (2X)	44.4	—	—	15.0	—	—	6.4	—	—	52	—	—
Gutwein 27 (2X)	45.5	—	—	18.6	—	—	7.3	—	—	51	—	—
Gutwein 48 (2X)	46.2	—	—	17.4	—	—	7.3	—	—	48	—	—
Trojan TXS108A (2X)	47.9	—	—	18.3	—	—	7.4	—	—	51	—	—
Migro M-0501 (2X)	54.5	—	—	20.0	—	—	7.7	—	—	45	—	—
Average	38.0	41	42	14.4	16.5	18.3	6.8	6.7	7.0	56	56	56
Range	27.3 to 54.5	34 to 47	35 to 48	8.2 to 20.0	12.6 to 21.1	13.9 to 22.1	5.1 to 8.0	5.5 to 7.6	6.0 to 7.9	45 to 64	50 to 60	50 to 59
Least significant difference	1.4	0.9	0.6	1.3	0.9	0.5	.5	.4	.3	3	2	2

	1973	1972	1971
Planted	May 16	April 29	May 4
Harvested	Sept. 11	Sept. 12	Sept. 7
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	19,900	19,000	20,100
Rows	30"	30"	30"
Fertilizer	198-115-120	165-80-0	168-92-60
Soil test: pH	7.0	7.2	6.9
P	74 (very high)	53 (very high)	72 (very high)
K	472 (very high)	255 (high)	292 (high)
Farm Cooperator: William McCrea, Bad Axe			
County Extension Director: Lee Warschewsky, Bad Axe			

Table 16. NORTH CENTRAL MICHIGAN Zone 3
MONTCALM COUNTY TRIAL — IRRIGATED vs. NOT IRRIGATED
 One, Two, Three Year Averages — 1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre						% Stalk lodging					
				1973		2 Years		3 Years		1973		2 Years		3 Years	
	1973	2 Yrs	3 Yrs	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig
Asgrow RX30 (2X)	20.1	—	—	90.9	81.2	—	—	—	—	4.0	5.9	—	—	—	—
Michigan 280 (4X)	20.5	23	24	99.6	93.0	118	108	130	81	3.4	3.9	8	8	8	6
Michigan 275-2X (2X)	20.7	23	23	103.7	95.9	115	98	126	75	5.2	7.2	10	4	9	3
Teweles TXT53X (3X)	20.8	—	—	83.2	73.7	—	—	—	—	4.1	6.7	—	—	—	—
DeKalb XL311 (3X)	21.5	—	—	103.3	87.4	—	—	—	—	4.9	4.6	—	—	—	—
Jacques JX863 (3X)	21.7	25	—	79.6	77.2	96	84	—	—	7.4	5.0	19	14	—	—
Funk G4195 (3X)	21.9	—	—	100.3	85.9	—	—	—	—	3.2	7.8	—	—	—	—
Blaney B200 (2X)	22.0	—	—	78.4	75.6	—	—	—	—	4.1	8.2	—	—	—	—
Wolverine 24 (4X)	22.0	—	—	89.7	77.1	—	—	—	—	0.0	3.2	—	—	—	—
Michigan 333-3X (3X)	22.3	25	25	117.2	105.8	131	121	143	94	4.3	2.0	8	2	6	1
Asgrow RX42 (2X)	22.8	—	—	117.8	106.9	—	—	—	—	1.7	2.0	—	—	—	—
Acco WC1901 (2X)	23.0	—	—	109.7	103.3	—	—	—	—	4.3	5.1	—	—	—	—
Super Crost 1692 (2X)	23.1	—	—	105.8	89.6	—	—	—	—	4.8	2.8	—	—	—	—
Michigan 396-3X (3X) ^{1,2}	23.2	26	26	129.1	111.2	141	129	154	92	3.1	2.8	4	4	5	3
Stanton SX1095N (3X)	23.5	—	—	92.1	81.0	—	—	—	—	2.7	2.2	—	—	—	—

(Continued)

TABLE 16. (Continued)

Hybrid (Brand — Variety)	% Moisture			Bushels per acre						% Stalk lodging					
				1973		2 Years		3 Years		1973		2 Years		3 Years	
	1973	2 Yrs	3 Yrs	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig
Stanton SX1090N (3X)	23.5	—	—	90.2	93.1	—	—	—	—	13.8	2.1	—	—	—	—
Wolverine W128 (2X)	23.8	—	—	106.0	86.3	—	—	—	—	0.0	2.9	—	—	—	—
DeKalb XL12 (2X)	24.1	—	—	104.6	94.6	—	—	—	—	4.0	2.1	—	—	—	—
Pioneer X9379A (3X)	24.2	—	—	100.7	90.9	—	—	—	—	0.9	2.2	—	—	—	—
Cowbell SX102 (2X)	24.2	27	26	118.2	108.4	127	117	133	90	4.7	2.8	6	4	7	3
Pride R252 (2X)	24.2	—	—	81.0	75.5	—	—	—	—	3.7	8.3	—	—	—	—
Michigan 410-2X (2X) ^{1,2}	24.5	28	27	132.6	110.9	144	127	162	95	4.3	6.5	5	5	7	3
Migro M-1101 (2X) ^{1,2}	24.7	28	—	135.4	112.7	143	125	—	—	3.1	2.0	3	1	—	—
Michigan 407-2X (2X) ^{1,2}	24.7	28	—	135.0	118.0	167	144	—	—	5.0	3.8	6	3	—	—
Blaney B401 (2X)	24.8	—	—	118.1	93.5	—	—	—	—	0.8	3.5	—	—	—	—
Pioneer 3958 (2X)	24.8	—	—	97.1	92.3	—	—	—	—	2.6	2.7	—	—	—	—
DeKalb XL15A (2X)	24.8	28	27	102.2	94.0	119	108	137	82	3.3	1.9	12	7	10	5
Teweles 263NBT (4X)	25.0	—	—	84.0	72.9	—	—	—	—	6.5	7.0	—	—	—	—
Jacques JX162A (2X) ¹	25.4	28	28	124.6	97.8	142	113	156	87	5.5	0.0	10	2	12	2
Funk G4343 (2X)	25.4	28	—	112.1	103.9	144	123	—	—	1.6	0.9	5	1	—	—
Super Crost S25 (2X)	25.6	31	29	118.0	101.8	152	127	164	90	0.8	0.0	4	4	4	3
Funk G4252 (3X)	25.6	27	—	86.4	85.9	121	107	—	—	3.2	4.5	7	3	—	—
Funk G4288 (3X) ^{1,2}	25.6	—	—	130.8	110.6	—	—	—	—	5.7	0.9	—	—	—	—
Teweles SXT14 (2X)	25.6	—	—	81.2	76.8	—	—	—	—	6.5	7.4	—	—	—	—
Blaney BX-AA (2X) ^{1,2}	25.6	29	29	125.1	115.0	152	135	163	100	1.5	2.8	4	5	4	3
Pride R290 (2X)	25.7	29	28	109.4	93.7	144	129	158	93	5.5	2.6	8	6	8	4
Asgrow RX53 (2X) ^{1,2}	25.8	—	—	132.0	119.7	—	—	—	—	0.7	3.5	—	—	—	—
Acco DC231 (4X)	25.8	—	—	88.4	86.5	—	—	—	—	8.8	4.0	—	—	—	—
Pioneer 3786 (2X)	26.2	—	—	111.6	98.5	—	—	—	—	4.0	1.1	—	—	—	—
Acco UC2301 (2X)	26.4	28	27	120.9	107.3	142	127	154	91	6.7	1.0	10	3	9	3
Migro M-1212 (2X) ^{1,2}	26.4	—	—	126.6	117.8	—	—	—	—	2.3	0.0	—	—	—	—
Super Crost 1712 (2X)	26.6	29	—	102.9	94.2	129	116	—	—	1.8	2.1	5	2	—	—
Pioneer 3773 (2X)	26.7	—	—	127.3	106.8	—	—	—	—	0.8	3.1	—	—	—	—
Acco U334 (3X)	26.7	29	—	99.7	91.8	132	112	—	—	2.6	1.3	6	1	—	—
Cowbell SC7300 (2X)	27.2	—	—	113.7	98.4	—	—	—	—	5.8	2.9	—	—	—	—
Pioneer 3780 (2X) ^{1,2}	27.2	30	—	126.2	111.3	154	134	—	—	4.9	3.2	8	2	—	—
Blaney B501A (2X)	27.3	30	—	109.2	102.3	138	118	—	—	3.1	1.1	6	2	—	—
Funk G4321 (2X) ^{1,2}	27.4	—	—	124.5	113.6	—	—	—	—	5.6	2.1	—	—	—	—
Michigan 572-3X (3X) ^{1,2}	27.4	29	29	133.8	116.8	160	137	168	100	2.4	4.1	6	4	6	3
DeKalb XL21 (2X)	27.4	—	—	116.3	106.4	—	—	—	—	3.6	5.1	—	—	—	—
Super Crost S27 (2X) ^{1,2}	27.7	31	30	134.6	118.2	154	139	165	102	4.6	3.9	6	3	5	2
Stanton SX10100 (3X)	27.8	—	—	110.5	101.1	—	—	—	—	4.8	1.0	—	—	—	—
Funk G4366 (3X) ^{1,2}	27.8	—	—	134.6	120.4	—	—	—	—	4.0	2.7	—	—	—	—
Renk R235A (3X)	27.9	—	—	110.8	103.0	—	—	—	—	2.5	6.3	—	—	—	—
Michigan 500-2X (2X) ¹	28.0	31	30	128.9	108.9	154	134	164	99	3.5	2.2	5	1	6	1
Acco UC3301 (2X) ^{1,2}	28.2	31	—	136.9	118.8	160	134	—	—	6.1	10.3	5	7	—	—
Blaney 6616 (Sp.)	28.3	—	—	104.3	94.7	—	—	—	—	3.0	3.2	—	—	—	—
Michigan 511-3X (3X) ^{1,2}	28.3	30	30	128.3	113.5	158	143	175	105	2.5	4.0	4	4	4	3
P.A.G. SX69 (2X) ^{1,2}	28.3	31	30	135.8	116.7	169	139	175	103	2.4	5.5	3	3	4	2
Migro M-1130 (2X) ^{1,2}	28.5	—	—	127.9	114.8	—	—	—	—	1.8	1.9	—	—	—	—
Cowbell SX112 (2X)	28.5	30	—	110.5	102.8	140	121	—	—	3.4	3.7	11	3	—	—
Funk G4444 (2X) ^{1,2}	28.8	31	30	133.9	116.9	169	140	178	105	4.8	1.7	5	4	6	3
Acco UC3201 (2X) ^{1,2}	28.8	31	—	137.5	117.8	155	131	—	—	2.3	1.7	3	3	—	—
Migro M-0501 (2X) ^{1,2}	31.8	—	—	133.6	110.9	—	—	—	—	0.0	0.0	—	—	—	—
Average	25.3	28	28	112.4	100.3	142	123	156	94	3.8	3.4	7	4	7	3
Range	20.1 to 31.8	23 to 31	23 to 30	78.4 to 137.5	72.9 to 119.7	96 to 169	84 to 144	126 to 178	75 to 105	0.0 to 13.8	0.0 to 10.3	3 to 19	1 to 14	4 to 12	1 to 6
Least significant difference	1.0	.7	.5	10.8	9.5	7	6	5	5						

¹Significantly better than average yield, irrigated 1973.²Significantly better than average yield, not irrigated 1973.

	1973	1972	1971
Planted	May 8	May 5	May 6
Harvested	Oct. 17	Oct. 25	Oct. 29
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	18,700	20,100	20,300
Rows	30"	30"	30"
Fertilizer	277-130-130	258-145-145	160-140-140
Soil test: pH	5.6	5.5	6.0
P	297 (very high)	420 (very high)	340 (very high)
K	175 (medium)	178 (medium)	246 (high)
Irrigation	5 inches	6 inches	12.5 inches

Farm Cooperator: Theron Comden, Lakeview

County Extension Director: James Crosby, Stanton

Table 17. **NORTH CENTRAL MICHIGAN** Zone 3
OCEANA AND MASON COUNTY TRIALS
One, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Funk G4082 (3X)	18.3	—	—	94.8	—	—	16.2	—	—
Jacques JX32 (2X)	18.4	—	—	94.0	—	—	2.9	—	—
Michigan 200 (4X)	18.6	21	20	93.9	86	89	5.1	4	3
Funk G5048 (3X)	19.3	—	—	104.7	—	—	5.4	—	—
Michigan 280 (4X)	19.5	23	23	105.1	107	112	7.1	7	5
Jacques JX22 (2X)	19.6	—	—	96.9	—	—	17.8	—	—
Funk G4195 (3X)	19.6	—	—	110.1	—	—	6.9	—	—
Funk G5150 (4X)	20.0	23	23	83.4	77	84	8.2	8	5
Michigan 275-2X (2X)	20.2	23	23	103.3	103	108	10.6	6	4
Northrup King PX446 (3X)	20.3	—	—	84.5	—	—	4.7	—	—
Northrup King PX476 (3X)	20.4	—	—	112.0	—	—	2.9	—	—
Pioneer 3850 (4X)	20.6	—	—	97.7	—	—	7.5	—	—
Michigan 333-3X (3X)	20.7	24	24	112.1	113	116	4.1	2	2
Cowbell SX102 (2X)	21.1	26	—	116.5	110	—	12.4	7	—
Pioneer X9379A (3X)	21.2	—	—	101.5	—	—	3.0	—	—
Trojan TXS92 (2X)	21.2	—	—	98.9	—	—	12.3	—	—
Trojan TXS94 (2X)	21.2	—	—	98.0	—	—	14.5	—	—
Jacques JX62 (2X)	21.3	—	—	103.5	—	—	4.0	—	—
Jacques JX902 (2X)	21.4	—	—	89.8	—	—	2.9	—	—
Jacques JX52 (2X)	21.4	—	—	85.7	—	—	9.9	—	—
Funk G4252 (3X)	21.6	26	25	106.0	101	108	10.2	8	5
Migro M-1101 (2X)	21.9	26	—	114.7	104	—	3.4	3	—
Pioneer 3956A (2X)	22.0	—	—	103.4	—	—	7.5	—	—
Bayless 3X219-3 (2X)	22.0	—	—	112.2	—	—	5.9	—	—
Trojan TXS99 (2X)	22.1	—	—	111.0	—	—	4.0	—	—
Cowbell 3X300 (3X)	22.1	—	—	117.3	—	—	4.2	—	—
*Michigan 396-3X (3X)	22.3	25	25	121.6	121	120	5.7	4	3
*Michigan 410-2X (2X)	22.7	26	26	124.4	120	122	4.5	4	3
Pioneer 3909 (2X)	22.7	26	26	108.1	112	111	3.5	2	1
*Pioneer 3780 (2X)	23.4	28	—	119.1	120	—	2.4	2	—
Funk G4343 (2X)	23.5	—	—	115.9	—	—	10.2	—	—
*Migro M-1212 (2X)	23.7	—	—	123.0	—	—	5.4	—	—
P.A.G. SX58 (3X)	23.8	—	—	110.7	—	—	7.3	—	—
Blaney B501A (2X)	24.1	—	—	103.5	—	—	5.8	—	—
Pioneer 3773 (2X)	24.4	28	28	105.8	105	109	4.1	3	2
*Cowbell SX7300 (2X)	24.6	—	—	119.8	—	—	6.4	—	—
Cowbell SX112 (2X)	25.4	—	—	98.5	—	—	5.7	—	—
*Migro M-1130 (2X)	25.4	—	—	125.7	—	—	6.6	—	—
*Funk G4444 (2X)	25.5	30	—	130.7	118	—	2.2	2	—
Blaney B-AA (2X)	26.6	—	—	115.1	—	—	8.7	—	—
Migro M-0501 (2X)	28.7	—	—	128.3	—	—	2.9	—	—
Average	22.1	25	24	107.2	108	108	6.6	4	3
Range	18.3	21	20	83.4	77	84	2.2	2	1
	to	to	to	to	to	to	to	to	to
	28.7	30	27	130.7	121	122	16.2	8	5
Least significant difference	0.9	0.7	0.5	9.8	6	4			

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 18	May 10	May 8
Harvested	Oct. 29	Nov. 3	Oct. 26
Soil type	Nester loam — Montcalm loamy sand	Nester loam	Nester loam
Previous crop	Corn	Corn	Corn
Population	20,600	19,400	19,900
Rows	30"	30"	30"
Fertilizer	105-60-75, manure	116-72-20	118-72-20
Soil test: pH	6.8	6.0	5.7
P	65 (very high)	69 (very high)	125 (very high)
K	167 (medium)	286 (high)	386 (very high)
Farm Cooperators:	Richard Kessler, Montague (1973) Bob and Tom Campbell, Scottville (1972) William Courtland, Scottville (1971)		
County Extension Directors:	Ed Strong, Hart 1973 Dean Raven, Scottville (1972, 1971)		

Table 18. **NORTHERN MICHIGAN** Zone 4
GRAND TRAVERSE COUNTY TRIAL
One, Two, Three Year Averages —
1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Stewart 2501 (2X)	19.2	—	—	84.8	—	—	23.3	—	—
Garno S80-X (2X)	19.9	24	—	83.7	96	—	26.9	13	—
Trojan TX70 (3X)	20.1	23	—	63.3	73	—	29.5	16	—
Payco 369	20.3	—	—	78.1	—	—	26.0	—	—
Jacques JX733 (3X)	20.3	—	—	74.3	—	—	45.2	—	—
Payco 3X433	20.5	—	—	79.1	—	—	27.0	—	—
DeKalb DK007 (4X)	20.6	23	—	69.3	87	—	45.8	25	—
Funk G4082 (3X)	20.6	—	—	79.3	—	—	47.4	—	—
Funk G5048 (3X)	21.0	00	00	94.9	—	—	23.4	—	—
Trojan TXS85 (2X)	21.0	25	26	95.3	98	97	12.8	7	5
Michigan 200 (4X)	21.5	23	24	94.0	102	98	8.4	5	4
Jacques JX32 (2X)	21.1	—	—	74.9	—	—	33.7	—	—
Anderson 85	21.1	—	—	65.0	—	—	21.0	—	—
*Pioneer 3975 (2X)	21.3	—	—	100.4	—	—	10.7	—	—
Garno S75 (2X)	21.3	—	—	79.8	—	—	21.8	—	—
Pioneer 3959 (3X)	21.5	27	—	81.5	98	—	19.2	10	—
*Trojan TX85 (3X)	21.6	25	—	105.5	98	—	15.8	7	—
*Michigan 280 (4X)	21.6	25	26	101.7	109	106	17.3	12	8
Pride R123 (2X)	21.9	—	—	77.1	—	—	21.5	—	—
*Pioneer 3965 (3X)	21.9	—	—	110.1	—	—	15.2	—	—
*Michigan 275-2X (2X)	21.9	24	26	112.0	113	107	17.2	10	7
*Garno S85 (2X)	22.3	27	—	98.1	108	—	22.6	12	—
Funk G5150 (4X)	22.5	26	26	91.1	103	99	34.7	18	12
*Garno S85X (2X)	22.9	—	—	106.6	—	—	22.5	—	—
Payco SX580 (2X)	23.0	—	—	104.5	—	—	24.0	—	—
DeKalb DK22 (4X)	23.3	26	—	68.0	75	—	52.0	26	—
DeKalb XL304 (3X)	23.4	27	—	87.8	105	—	19.9	11	—
Renk R82 (3X)	23.5	—	—	94.8	—	—	21.5	—	—
*Pioneer 3956 (2X)	23.5	27	28	110.8	111	107	12.2	7	5
Anderson 80	23.5	—	—	72.8	—	—	17.0	—	—
Funk G4195 (3X)	23.6	—	—	79.8	—	—	24.9	—	—
Garno S80 (2X)	23.6	—	—	77.8	—	—	25.2	—	—
Jacques JX62 (2X)	23.8	—	—	93.3	—	—	15.9	—	—
*Pride R173 (3X)	24.0	—	—	101.4	—	—	15.3	—	—
*Michigan 333-3X (3X)	24.3	27	—	115.8	118	—	8.3	4	—
*Jacques JX52 (2X)	25.1	—	—	116.3	—	—	15.6	—	—
Pioneer 385 (4X)	26.0	31	—	93.2	101	—	25.0	14	—
*Michigan 396-3X (3X)	26.3	29	30	116.5	118	112	12.8	6	4
Funk G4343 (2X)	28.2	—	—	78.6	—	—	19.0	—	—
Garno S87 (2X)	28.5	32	—	88.2	95	—	12.8	7	—
*Garno S90 (2X)	29.8	35	—	111.6	105	—	17.2	9	—
Average	22.9	26	26	90.6	100	102	21.9	12	7
Range	19.2	23	23	63.3	73	92	8.3	4	4
	to	to	to	to	to	to	to	to	to
	29.8	35	30	116.3	118	112	52.0	26	12
Least significant difference	1.0	0.8	0.7	7.1	6	4			

*Significantly better than average yield in 1973.

	1973	1972	1971
Planted	May 21	May 18	May 18
Harvested	Oct. 25	Nov. 8	Oct. 28
Soil type	Coventry Newaygo loam	Coventry Newaygo loam	Emmett sandy loam
Previous crop	Corn	Corn	Corn
Population	20,100	19,400	19,000
Rows	38"	30"	30"
Fertilizer	120-65-19, manure	36-96-0, manure	106-40-40
Soil test: pH	7.0	6.8	6.2
P	259 (very high)	249 (very high)	59 (very high)
K	312 (very high)	449 (very high)	187 (high)
Farm Cooperators:	George Svec, Buckley (1973, 1972) Karl Wagner, Grawn (1971)		
County Extension Director:	George McManus, Traverse City		

**Table 19. NORTHERN MICHIGAN Zone 4
SILAGE — MISSAUKEE COUNTY TRIAL**
One, Two, Three Year Averages — 1973, 1972, 1971

Hybrid (Brand — Variety)	% Moisture in ear			Tons per acre						% Ears in dry weight		
				Green weight			Dry weight					
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Trojan TX70 (3X)	36.4	37	—	14.1	15.2	—	6.5	6.2	—	55	55	—
DeKalb DK22 (4X)	37.9	39	42	14.5	15.6	15.2	6.5	6.0	5.4	52	54	55
Trojan TX85 (3X)	37.9	—	—	15.3	—	—	6.6	—	—	55	—	—
Jacques JX22 (2X)	37.9	41	44	15.6	16.9	15.9	7.0	6.2	5.5	55	54	56
Pioneer 3873 (4X)	38.0	—	—	15.9	—	—	7.0	—	—	56	—	—
Northrup King KE408 (4X)	38.1	38	—	11.7	14.1	—	5.3	5.6	—	58	57	—
DeKalb DK007 (4X)	38.2	39	42	16.0	17.6	16.5	7.1	6.7	5.9	57	57	58
Trojan TXS85 (2X)	38.4	41	44	15.0	17.6	16.5	6.4	6.2	5.5	55	54	54
Funk G4082 (3X)	38.6	46	47	14.0	16.6	15.8	6.1	5.9	5.4	61	56	56
Michigan 200 (4X)	38.7	40	42	16.3	17.6	16.5	6.9	6.6	6.0	58	58	58
Funk G5048 (3X)	39.3	—	—	15.0	—	—	6.4	—	—	55	—	—
Jacques JX863 (3X)	39.4	41	45	15.4	17.4	16.3	6.2	6.2	5.6	57	58	59
Pioneer 3965 (3X)	40.6	—	—	17.0	—	—	6.7	—	—	57	—	—
Funk G5150 (4X)	40.6	43	45	15.0	15.5	14.4	6.1	5.7	5.1	57	59	58
Michigan 275-2X (2X)	40.6	43	46	17.3	18.5	17.2	7.4	6.8	6.1	54	54	55
Michigan 280 (4X)	41.0	45	48	17.7	20.4	19.2	7.7	7.3	6.5	52	53	54
Northrup King PX420 (3X)	42.3	40	—	15.9	16.2	—	6.8	6.2	—	55	57	—
DeKalb XL304 (3X)	42.5	46	—	17.1	20.3	—	6.6	6.7	—	58	56	—
Northrup King PX442 (3X)	43.0	49	—	14.5	17.5	—	5.8	6.0	0.0	56	50	—
Pioneer 3975 (2X)	43.0	—	—	17.3	—	—	7.0	—	—	57	—	—
Michigan 333-3X (3X)	43.2	47	52	20.6	21.8	20.8	8.2	7.6	6.6	52	50	52
Pride R173 (3X)	43.4	—	—	16.9	—	—	6.5	—	—	56	—	—
Funk G4195 (3X)	43.5	—	—	18.5	—	—	7.5	—	—	47	—	—
Pride R252 (2X)	47.4	—	—	16.7	—	—	6.1	—	—	42	—	—
Jacques JX902 (2X)	47.5	48	50	19.6	18.4	17.1	7.5	6.4	5.7	47	50	51
Michigan 396-3X (3X)	48.2	51	54	20.8	21.2	20.6	8.0	7.2	6.3	48	48	50
Pioneer 3937 (3X)	49.4	51	—	18.7	20.3	—	7.0	6.7	—	46	46	—
Taylor-Evans Profitmaker (2X)	53.1	55	—	19.6	20.5	—	7.4	6.7	—	52	49	—
Taylor-Evans Hastymaker (4X)	54.3	56	—	20.2	20.0	—	7.6	6.5	—	44	44	—
Average	42.2	44	46	16.6	17.9	17.0	6.8	6.4	5.8	54	53	55
Range	37.9 to 54.3	37 to 56	42 to 54	11.7 to 20.8	14.1 to 21.8	14.4 to 20.8	5.3 to 8.2	5.6 to 7.6	5.1 to 6.6	42 to 63	44 to 59	50 to 60
Least significant difference	1.6	1.2	1.0	1.2	0.8	0.7	0.6	0.5	0.4	3	3	2

	1973	1972	1971
Planted	May 17	May 19	May 12
Harvested	Sept. 13	Sept. 14	Sept. 10
Soil type	Kent silt loam	Kent silt loam	Kent silt loam
Previous crop	Grass sod	Corn	Grass sod
Rows	19,800	18,600	19,400
Fertilizer	30"	28"	30"
	168-32-166	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 Department, Michigan State University			

**Table 20. NORTHERN MICHIGAN Zone 4
GRAIN —
PRESQUE ISLE AND ALPENA COUNTY TRIALS**
One, Two, Three Year Averages —
1973, 1971, 1970
No Results from 1972

Hybrid (Brand — Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs
Trojan TX70 (3X)	27.6	—	—	75.4	—	—	33.3	—	—
DeKalb DK007 (4X)	29.9	—	—	85.5	—	—	57.0	—	—
Warwick SL209 (2X)	29.9	28	—	90.1	119	—	56.9	47	—
Michigan 200 (4X)	30.0	27	27	98.0	122	119	31.2	26	20
Warwick 215 (4X)	30.8	—	—	86.9	—	—	29.3	—	—
Northrup King PX442 (3X)	31.4	30	32	93.0	118	111	26.6	16	15
Funk G4082 (3X)	31.7	—	—	98.3	—	—	45.2	—	—
Funk G5048 (3X)	32.4	—	—	92.4	—	—	18.5	—	—
Stewart 2501 (2X)	32.5	—	—	102.1	—	—	34.5	—	—
Stewart 3502 (3X)	32.7	—	—	85.9	—	—	29.9	—	—
Michigan 280 (4X)	32.9	32	31	99.8	135	132	29.0	20	17
*Pride R123 (2X)	33.5	—	—	104.8	—	—	30.2	—	—
DeKalb DK22 (4X)	33.6	32	32	86.5	117	116	19.6	24	19
Michigan 275-2X (2X)	33.6	32	32	98.9	141	133	20.6	19	17
*Pride R173 (3X)	34.0	—	—	111.4	—	—	27.3	—	—
*Pioneer 3975 (2X)	34.1	—	—	106.8	—	—	17.2	—	—
*Pioneer 3965 (3X)	34.2	—	—	108.4	—	—	16.9	—	—
Warwick TX27 (3X)	34.2	—	—	83.4	—	—	36.3	—	—
*Funk G4195 (3X)	34.7	—	—	109.6	—	—	41.6	—	—
Pride R137 (4X)	34.9	—	—	103.1	—	—	20.6	—	—
*Northrup King PX446 (3X)	34.9	32	34	108.1	120	113	17.4	12	11
Funk G5150 (4X)	35.1	32	—	83.4	105	—	30.6	25	—
DeKalb DL304 (3X)	35.1	—	—	102.8	—	—	38.4	—	—
Warwick TX22 (Sp.)	35.5	—	—	103.5	—	—	20.9	—	—
*Michigan 333-3X (3X)	35.6	—	—	113.1	—	—	23.2	—	—
*Michigan 396-3X (3X)	36.7	36	—	104.6	141	—	26.7	18	—
Jacques 951 (4X)	36.7	—	—	83.3	—	—	8.9	—	—
Average	33.0	31	31	94.3	124	120	27.9	24	17
Range	27.2 to 36.7	27 to 36	27 to 34	70.0 to 113.1	118 to 141	111 to 132	10.9 to 57.0	12 to 47	11 to 22
Least significant difference	1.1	1.0	1.0	10.0	7	6			

*Significantly better than average yield in 1973.

	1973	1971	1970
Planted	May 17	May 14	May 12
Harvested	Oct. 18	Oct. 28	Oct. 31
Soil type	Mackinaw and Onaway	Onaway loam	Onaway loam
Previous crop	Corn	Cucumbers	Corn
Population	20,500	20,200	19,700
Rows	28"	28"	28"
Fertilizer	24-96-96	232-128-212	121-84-84
Soil test: pH	7.3		
P	90 (very high)		
K	289 (high)		
Farm Cooperators: Louis and Leroy Woloszyk, Posen (1973) William Bartow, Alpena (1971, 1970)			
County Extension Directors: Jay Poffenberger, Rogers City (1973) A. H. Nickels, Alpena (1971, 1970)			
Cooperator: L. V. Nelson, Crop and Soil Sciences Department, Michigan State University			

Table 21. **NORTHERN MICHIGAN Zone 4**
SILAGE—PRESQUE ISLE AND ALPENA COUNTY TRIALS
One, Two, Three Year Averages—1973, 1972, 1971

Hybrid (Brand—Variety)	% Moisture in ear			Tons per acre						% Ears in dry weight		
	1973	2 Yrs	3 Yrs	Green weight			Dry weight			1973	2 Yrs	3 Yrs
				1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs			
Trojan TX70 (3X)	37.6	46	—	13.1	15.1	—	4.5	4.1	—	49	49	—
DeKalb DK007 (4X)	42.4	51	—	15.8	18.3	—	5.0	4.9	—	44	44	—
Warwick SL209 (2X)	42.4	49	50	16.4	16.0	19.1	5.3	4.7	5.3	49	50	53
DeKalb DK22 (4X)	43.4	50	51	14.6	16.4	17.9	4.7	4.8	5.0	49	49	50
Stewart 3502 (3X)	43.8	—	—	15.5	—	—	4.8	—	—	47	—	—
Stewart 2501 (2X)	44.5	—	—	14.4	—	—	4.6	—	—	47	—	—
Michigan 200 (4X)	45.7	52	53	16.6	19.5	21.3	5.5	5.6	5.9	43	46	48
Warwick 215 (4X)	46.1	53	—	17.0	20.9	—	5.3	5.4	—	43	44	—
Warwick TX22 (Sp.)	48.1	54	—	18.2	21.7	—	5.5	5.5	—	43	47	—
Funk G4082 (3X)	48.1	53	53	17.9	20.3	22.1	5.3	5.7	6.1	51	47	49
Funk G5048 (3X)	48.4	—	—	16.9	—	—	4.9	—	—	46	—	—
Pioneer 3965 (3X)	48.7	—	—	19.2	—	—	5.6	—	—	47	—	—
DeKalb XL304 (3X)	49.0	58	—	18.4	23.2	—	5.5	5.8	—	45	43	—
Pride R173 (2X)	49.5	—	—	20.0	—	—	5.4	—	—	42	—	—
Pride 137 (4X)	49.5	59	59	17.3	22.8	23.9	5.1	5.4	5.8	44	44	45
Michigan 275-2X (2X)	49.6	56	57	18.1	20.5	22.8	5.5	5.6	6.2	47	45	46
Michigan 280 (4X)	50.0	57	58	18.3	22.4	24.9	5.8	5.9	6.2	47	47	46
Funk G5150 (4X)	50.6	55	56	15.0	18.0	20.2	4.2	4.7	5.2	41	43	45
Pride R123 (2X)	50.8	—	—	18.9	—	—	5.9	—	—	40	—	—
Pioneer 3975 (2X)	51.6	—	—	18.6	—	—	5.6	—	—	42	—	—
Jacques 951 (4X)	51.9	59	60	17.6	18.9	21.1	5.2	4.9	5.3	45	44	44
Pioneer 333-3X (3X)	52.7	60	—	19.7	24.3	—	6.4	6.4	—	42	42	—
Northrup King PX446 (3X)	53.0	57	59	17.9	21.8	22.7	5.1	5.6	5.7	38	40	39
Northrup King PX442 (3X)	53.7	60	60	17.4	21.2	22.0	5.0	5.1	5.4	39	41	42
Funk G4195 (3X)	54.2	—	—	19.3	—	—	5.7	—	—	38	—	—
Warwick TX27 (3X)	55.8	—	—	20.4	—	—	5.7	—	—	34	—	—
Michigan 396-3X (3X)	57.5	63	63	20.9	24.0	25.8	6.4	6.2	6.4	36	39	—
Average	48.8	55	56	17.5	20.2	21.9	5.3	5.3	5.7	44	44	47
Range	37.6 to 57.5	46 to 63	50 to 63	13.1 to 20.9	15.1 to 24.3	17.9 to 25.8	4.2 to 6.7	4.1 to 6.4	5.0 to 6.4	34 to 51	39 to 50	39 to 53
Least significant difference	1.5	1.0	0.8	1.4	0.8	0.5	0.5	0.4	0.3	3	3	2

	1973	1972	1971
Planted	May 17	May 18	May 14
Harvested	Sept. 12	Sept. 13	Sept. 9
Soil type	Mackinaw and Onaway	Onaway loam	Onaway loam
Previous crop	Corn	Corn	Cucumbers
Population	20,300	18,700	20,400
Rows	28"	28"	28"
Fertilizer	24-96-96	224-152-48	232-128-212
Soil test: pH	7.3		
P	90 (very high)		
K	289 (high)		

Farm Cooperators: Louis and Leroy Woloszyk, Posen (1973);
William Bartow, Ossineke (1972, 1971)

County Extension Directors: Jay Poffenberger, Rogers City (1973);
A. H. Nickels, Alpena (1972, 1971)

Cooperator: L. V. Nelson, Crop and Soil Science Department, Michigan State University

Table 22. **NORTHERN MICHIGAN Zone 4**
SILAGE—ALGER COUNTY TRIAL
One, Two, Three Year Averages—1973, 1972, 1971

Hybrid (Brand—Variety)	% Moisture in ear			Tons per acre						% Ears in dry weight		
	1973	2 Yrs	3 Yrs	Green weight			Dry weight			1973	2 Yrs	3 Yrs
				1973	2 Yrs	3 Yrs	1973	2 Yrs	3 Yrs			
Wisconsin 240 (4X)	51.8	58	53	8.3	10.8	11.0	3.1	3.5	3.8	33	35	38
Pride R102 (3X)	52.3	58	—	7.0	9.1	—	2.3	2.7	—	44	41	—
DeKalb DK22 (4X)	53.6	58	53	8.8	10.4	12.1	2.8	3.2	3.7	27	32	36
Wisconsin 233 (3X)	54.3	63	—	8.3	10.4	—	2.9	3.1	—	25	31	—
Trojan TX70 (3X)	54.3	61	—	8.0	9.6	—	2.9	3.1	—	43	41	—
Wisconsin 243 (3X)	54.3	63	57	9.9	11.1	11.2	3.2	3.1	3.4	36	34	37
Wisconsin 253 (3X)	54.4	61	55	10.0	11.5	11.7	3.4	3.4	3.6	46	42	41
Cargill 185N	54.5	—	—	9.1	—	—	3.0	—	—	30	—	—
Northrup King KC3 (4X)	56.5	62	56	10.6	12.0	12.5	3.7	3.6	3.8	39	36	39
Funk G5048 (3X)	57.6	—	—	9.9	—	—	3.2	—	—	38	—	—
Northrup King PX420 (3X)	58.0	63	—	10.7	11.4	—	3.8	3.6	—	40	36	—
Pioneer 3873 (4X)	58.1	66	61	10.5	12.9	12.2	3.4	3.7	3.8	41	35	35
Michigan 200 (4X)	58.3	63	58	10.9	12.7	12.6	3.7	3.8	4.0	37	34	38
Funk G4082 (3X)	58.7	66	60	10.1	11.9	12.1	3.4	3.6	3.7	34	33	33
Northrup King KE408 (4X)	58.9	62	—	7.8	10.9	—	2.4	3.2	—	34	36	—
Pioneer 3975 (2X)	59.2	—	—	12.3	—	—	4.1	—	—	36	—	—
DeKalb DK007 (4X)	59.5	67	60	9.6	11.4	10.7	3.2	3.4	3.4	35	31	34
Pioneer 3965 (3X)	59.7	—	—	12.8	—	—	4.0	—	—	39	—	—
Michigan 275-2X (2X)	63.3	70	63	11.3	12.7	12.2	3.4	3.5	3.9	32	30	35
Funk G4195 (3X)	64.0	—	—	11.0	—	—	3.3	—	—	27	—	—
Michigan 280 (4X)	64.5	71	65	11.1	13.1	13.1	3.3	3.6	3.8	26	26	29
Michigan 333-3X (3X)	66.4	—	—	12.8	—	—	3.5	—	—	37	—	—
Average	57.8	63	58	10.0	11.3	12.1	3.3	3.4	3.8	35	35	37
Range	51.8 to 66.4	58 to 71	53 to 65	7.0 to 12.8	9.1 to 13.1	10.7 to 13.6	2.3 to 4.1	2.7 to 3.9	3.4 to 4.2	25 to 46	26 to 42	29 to 43
Least significant difference	1.7	1.4	1.0	1.0	0.7	0.6	0.6	0.4	0.3	4	3	3

	1973	1972	1971
Planted	May 3	May 26	May 27
Harvested	Sept. 16	Oct. 10-20	Oct. 13-15
Soil type	Chatham stoney loam	Chatham stoney loam	Chatham stoney loam
Previous crop	Corn	Corn	Corn
Population	16,700	18,300	16,900
Rows	36"	36"	36"
Fertilizer	57-57-57	48-48-48	46-46-46
Soil test: pH		7.4	
P		108 (very high)	
K		354 (very high)	

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

Table 23. Index for 328 hybrids entered as 1,440 entries in the 1973 Michigan Corn Performance Trials. Numbers within parentheses refer to table numbers in which the hybrid appears. (2X) indicates a single-cross hybrid, (3X) indicates a three-way hybrid, (Sp.) indicates a special-cross hybrid, and (4X) a double-cross hybrid. Company names used in association with hybrid numbers refer to the brand and the numbers are the variety (hybrid) designation.

ACCO Seed, Box 9, Belmont, Iowa

Acco DC221 (4X) (16)
Acco U314 (2X) (12)
Acco U326 (3X) (11)
Acco U334 (3X) (7, 8, 16)
Acco U370 (3X) (3)
Acco U378 (3X) (3)
Acco DC394 (3X) (1)
Acco DC441 (4X) (1)
Acco U3901 (2X) (6, 12, 13, 16)
Acco UC2301 (2X) (4, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16)
Acco UC3901 (2X) (8, 9, 10, 13, 14, 15)
Acco UC3201 (2X) (1, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16)
Acco UC3301 (2X) (1, 2, 3, 4, 5, 6, 8, 9, 10, 13, 14, 16)
Acco UC3601 (2X) (3, 5)
Acco Exp. 4201 (3X) (1, 2, 4, 5)
Acco UC4561 (2X) (1, 2, 3, 4)

Adler's Seeds, Inc., Sharpville, Indiana

Adler 23X (2X) (1, 2, 3, 4, 5)
Adler 413 (3X) (1, 2, 3, 4, 5)

Andersons, Maumee, Ohio

Anderson 80 (18)
Anderson 85 (18)

Angrow Seed, Oxford, Indiana

Angrow RX30 (2X) (12, 13, 14, 15, 16)
Angrow XK31 (12)
Angrow RX35A (2X) (12, 14, 15)
Angrow RX42 (2X) (6, 12, 13, 14, 15, 16)
Angrow RX 55 (2X) (4, 12, 13, 14, 15, 16)
Angrow RX58 (2X) (4, 5, 9, 10, 12, 13)

Bayless Hybrids, Bluffton, Indiana

Bayless SX219-3 (3X) (3, 6, 13, 17)
Bayless SX434 (2X) (12, 13)
Bayless SX434-3 (2X) (3, 5, 13)
Bayless SX1795 (2X) (1, 3, 5, 13)
Bayless SX 3771 (3X) (3)
Bayless SX4395 (2X) (3, 6, 13)

Blaney Farms, Inc., Madison, Wisconsin

Blaney 9-AA (2X) (2, 3, 7, 9, 10, 12, 13, 17)
Blaney BX-AA (2X) (1, 2, 9, 10, 13, 16)
Blaney 320A (2X) (2, 8, 12, 13, 16)
Blaney B302 (2X) (2, 8, 9, 10, 12, 13)
Blaney B401 (2X) (2, 8, 12, 16)
Blaney B501A (2X) (2, 8, 12, 16, 17)
Blaney B701 (2X) (1, 2, 3, 9, 10, 11, 13)
Blaney B705 (2X) (1, 2, 3, 9, 10, 13)
Blaney B773 (2X) (1, 3, 9, 10, 13)
Blaney 6616 (Sp.) (2, 3, 12, 16)
Blaney B701-HL (2X) (High lysine) (11)

Cargill, Inc., Minneapolis, Minnesota

Cargill 1850 (4X) (10)
Cargill 185N (2X)
Cargill 449 (3X) (9, 9, 10)
Cargill 830 (2X) (12)
Cargill 846 (2X) (9, 10, 12)
Cargill 863 (2X) (9, 10, 12)
Cargill 870 (2X) (3)
Cargill 878 (2X) (3)

Cowbell Seeds, Inc., Wayland, Michigan

Cowbell SX102 (2X) (6, 7, 8, 12, 16, 17)
Cowbell SX112 (2X) (4, 16, 17)
Cowbell SX209 (2X) (2, 3, 5, 7, 8, 9, 10)
Cowbell SX300 (2X) (17)
Cowbell SX314 (3X) (2, 3, 4)
Cowbell SX7300 (2X) (4, 6, 7, 8, 16, 17)
Cowbell SX7310 (2X) (2, 3, 4, 5, 7, 8, 9, 10)
Cowbell SX7440 (2X) (2, 3, 4, 5, 7, 8)

DeKalb Ag. Research, Inc., DeKalb, Illinois

DeKalb DK007 (4X) (18, 19, 20, 21, 22)
DeKalb XL12 (2X) (12, 13, 14, 15, 16)
DeKalb XL15A (2X) (16)
DeKalb XL21 (2X) (6, 8, 12, 13, 16)
DeKalb DK22 (2X) (18, 19, 20, 21, 22)
DeKalb XL22 (2X) (2, 3, 5, 12, 13, 14, 15)
DeKalb XL22B (2X) (7, 8, 9, 10)
DeKalb XL43 (2X) (4, 13)
DeKalb XL44 (2X) (2, 3, 5, 5, 13)
DeKalb XL45A (2X) (2, 3, 4, 5, 7, 9, 10)
DeKalb XL304 (3X) (12, 18, 19, 20, 21)
DeKalb XL311 (3X) (16)
DeKalb XL316 (3X) (9, 10)

Funk Seeds International, Bloomington, Illinois

Funk G4082 (3X) (17, 18, 19, 20, 21, 22)
Funk G4195 (3X) (4, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
Funk G4252 (3X) (2, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17)
Funk G4343 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18)
Funk G4366 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16)

Funk G4384A (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13)

Funk G4404 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)
Funk G4444 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17)
Funk G4465 (2X) (1, 2, 3, 4, 5, 9, 10)
Funk G4567 (2X) (9, 10)
Funk G5150 (4X) (17, 18, 19, 20, 21)
Funk 25792 (2X) (4, 5)
Funk UC3001 (2X) (7, 9, 10, 12, 13, 14, 15, 16)
Funk G4321 (2X) (8, 9, 10, 12, 13, 14, 15, 16)
Funk G5048 (3X) (17, 18, 19, 20, 21, 22)
Funk 2621S (3X) (1, 2, 3)
Funk 24559-HL (3X) (High lysine) (11)

Edward J. Funk and Sons, Kentland, Indiana

Super Crost S19 (2X) (2)
Super Crost S25 (2X) (1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 13, 14, 15, 16)
Super Crost S27 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16)
Super Crost S28 (2X) (6)
Super Crost S29 (2X) (1, 2, 3, 4, 5, 9, 10)
Super Crost S63 (2X) (1, 2, 3, 4, 5, 9, 10)
Super Crost S65 (2X) (2)
Super Crost L692 (2X) (9, 10, 12, 13, 14, 15, 16)
Super Crost L712 (2X) (3, 6, 9, 10, 12, 13, 14, 15, 16)
Super Crost W-1900 (2X) (2, 5, 9, 10, 13, 14, 15)
Super Crost 2572 (2X) (1, 2, 6)
Super Crost 2772 (2X) (1, 2, 5, 8, 9, 10)
Super Crost 4242 (2X) (1, 2, 3, 4, 5)
Super Crost 5440 (2X) (1, 2, 3, 4, 5)

Garno Seed Co., Palmyra, Michigan

Garno S70 (2X) (12, 14, 15, 18)
Garno S75 (2X) (18)
Garno S80 (2X) (18)
Garno S85 (2X) (2, 3, 9, 10, 12, 14, 15, 16)
Garno S85X (2X) (9, 10, 12, 13, 14, 15, 18)
Garno S87 (2X) (18)
Garno S90X (2X) (18)
Garno S92 (2X) (13, 14, 15)
Garno S94 (2X) (1, 5, 6, 9, 10, 12, 13, 14, 15)
Garno S94A (2X) (12)
Garno S96 (2X) (2, 3, 5, 6, 9, 10, 13)
Garno S106X (2X) (1, 5, 9, 10)
Garno S110 (2X) (1, 5)

Fred Gutwein & Sons, Inc., Francesville, Indiana

Gutwein 8(X) (11, 14, 15)
Gutwein 10A (2X) (1, 9, 10, 13, 14, 15)
Gutwein 27 (2X) (1, 2, 3, 9, 10, 14, 15)
Gutwein 40 (2X) (1, 2, 3, 9, 10, 14, 15)
Gutwein 48 (2X) (1, 2, 3, 9, 10, 14, 15)
Gutwein 69A (2X) (1, 2, 3)
Gutwein 70A (2X) (1)
Gutwein 116 (3X) (1, 2, 3, 9, 10, 14, 15)
Gutwein 128 (3X) (1, 2, 3, 9, 10, 14, 15)
Gutwein HL25 (2X) (High lysine) (11)

G. E. Huldug & Son, Geneseo, Illinois

Huldug X534 (2X) (2, 3)
Huldug X537 (2X) (2, 3)
Huldug X539 (2X) (3)
Huldug X770 (2X) (2, 3)
Huldug X9761 (3X) (6)
Huldug X9770 (3X) (2, 3)

Jacques Seed Co., Prescott, Wisconsin

Jacques JX22 (2X) (17, 19)
Jacques JX32 (2X) (17, 18)
Jacques JX52 (2X) (17, 18)
Jacques JX62 (2X) (14, 15, 17, 18)
Jacques JX122A (2X) (14, 15)
Jacques JX162A (2X) (2, 8, 13, 14, 15, 16)
Jacques JX733 (3X) (18)
Jacques JX863 (3X) (16, 19)
Jacques JX902 (3X) (17, 19)
Jacques 951 (4X) (20, 21)

Jung Farms, Inc., Randolph, Wisconsin

Jung JX104A (2X) (8, 9, 10)
Jung JX111 (2X) (8, 9, 10)

King Row Hybrids, Bridgeport, Michigan

King Row KRX501 (2X) (13)

Lowes Seed Co., Kankakee, Illinois

Lowes SX2TP (2X) (2, 3)
Lowes LTX-1 (3X) (2)
Lowes LTX-2 (3X) (3)

Michigan Crop Improvement Association, East Lansing

Michigan 200 (4X) (17, 18, 19, 20, 21, 22)
Michigan 276-2X (2X) (6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
Michigan 280 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
Michigan 333-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
Michigan 396-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
Michigan 410-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17)
Michigan 500-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16)
Michigan 511-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16)
Michigan 572-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16)
Michigan 407-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16)
Michigan 575-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13)

Michigan Hybrid Seed Co., East Lansing, Michigan

Wolverine 24 (4X) (16)
Wolverine W128 (2X) (16)
Wolverine W166 (2X) (8, 9, 10, 13)
Wolverine W170 (2X) (2, 13)
Wolverine W172 (2X) (1, 8, 9, 10, 13, 14, 15)
Wolverine W176 (2X) (1, 9, 10, 13, 14, 15)

Migro Hybrids, Mitchell, Indiana

Migro M-0501 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17)
Migro M-1010 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
Migro M-1101 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17)
Migro M-Exp. 1130 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17)
Migro M-1212 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17)
Migro M-3020 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
Migro M-5040 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)

Moews Seed Co., Granville, Illinois

Moews SM220 (2X) (3, 4, 5, 6)
Moews WM220 (2X) (3, 4, 5, 6)
Moews SM223 (2X) (3, 4, 5, 6)
Moews SM229 (2X) (3, 4, 5, 6)

Muncy Chief Hybrids, Muncy, Pennsylvania

Muncy Chief H304 (4X) (13)
Muncy Chief H403 (4X) (13)
Muncy Chief SX440 (2X) (2, 9, 10, 13)
Muncy Chief SX550 (2X) (2, 9, 10, 13)
Muncy Chief SX604 (2X) (2, 9, 10)
Muncy Chief H764 (4X) (9, 10)
Muncy Chief SX878 (2X) (9, 10)

Northrup King, Minneapolis, Minnesota

Northrup King KC3 (4X) (22)
Northrup King PX30 (2X) (7, 14, 15)
Northrup King PX30 (2X) (6)
Northrup King PX478 (2X) (13)
Northrup King PX50A (2X) (2, 4, 5, 7, 8, 12, 13, 14, 15)
Northrup King KB408 (4X) (19, 22)
Northrup King PX420 (3X) (19, 22)
Northrup King PX442 (3X) (19, 20, 21)
Northrup King PX446 (3X) (17, 20, 21)
Northrup King PX448 (3X) (14, 15)
Northrup King PX476 (3X) (13, 17)
Northrup King PX519 (Sp.) (13, 14, 15)
Northrup King PX525 (3X) (7, 8, 13)
Northrup King PX529 (3X) (8)
Northrup King PX545 (3X) (2, 3)
Northrup King PX610 (3X) (2, 5)
Northrup King PX611 (3X) (5)

Occidental Chemical Co., Bad Axe and Appleton, Michigan

Oxy 16 (4X) (12)
Oxy E22 (4X) (14, 15)
Oxy 26 (4X) (12)
Oxy 362 (2X) (12, 14, 15)
Oxy 420 (2X) (12, 14, 15)

OYO Seed Associates, Inc., Marysville, Ohio

OYO 220 (2X) (1, 2)
OYO 333 (2X) (1, 2)
OYO 435A (4X) (1, 2)

Roy Parker & Sons, Inc., Kimmell, Indiana

Parker 300 (2X) (6)
Parker 500 (3X) (5)

P.A.G. Seeds, Minneapolis, Minnesota

P.A.G. SX7 (2X) (2, 3)
P.A.G. S3 (3X) (12, 13, 14, 15)
P.A.G. SX58 (2X) (17)
P.A.G. SX67 (2X) (12, 14, 15)
P.A.G. SX69 (2X) (1, 2, 3, 4, 8, 9, 10, 12, 13, 14, 15, 16)
P.A.G. SX195 (10)
P.A.G. 315 (10)
P.A.G. SX454 (3)

Payco Seeds, Dassel, Minnesota

Payco 369 (18)
Payco SX433 (18)
Payco SX580 (18)

Pioneer Hi-Bred, Inc., Tipton, Indiana

Pioneer 385 (4X) (18)
Pioneer 3516 (2X) (2, 5, 6)
Pioneer 3518 (Sp.) (1, 2, 3, 4, 5, 6, 9, 10)
Pioneer 3722 (2X) (6)
Pioneer 3729 (3X) (5)
Pioneer 3731 (3X) (1)
Pioneer 3773 (2X) (2, 3, 7, 9, 10, 12, 13, 16, 17)
Pioneer 3780 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 15, 16, 17)
Pioneer 3784 (2X) (1, 4, 7, 12, 13, 14, 15)
Pioneer 3786 (2X) (16)
Pioneer 3853 (4X) (17)
Pioneer 3873 (4X) (19, 22)
Pioneer 3909 (2X) (6, 8, 12, 17)
Pioneer 3937 (3X) (12, 19)
Pioneer 3956 (2X) (6, 7, 18)
Pioneer 3956A (2X) (12, 13, 14, 15, 17)
Pioneer 3958 (2X) (13, 16)
Pioneer 3959 (3X) (18)
Pioneer 3965 (3X) (18, 19, 20, 21, 22)
Pioneer 3975 (2X) (18, 19, 20, 21, 22)
Pioneer X9379A (3X) (12, 13, 14, 15, 16, 17)

Prairie Stream Farms, Inc., Frankfort, Indiana

Prairie Stream SX18 (2X) (5)
Prairie Stream SX3 (2X) (5, 6)

Pride Seed Co., Quincy, Michigan

Pride R102 (3X) (22)
Pride R123 (2X) (18, 20, 21)
Pride 137 (4X) (20, 21)
Pride R173 (3X) (18, 19, 20, 21)
Pride R200A (2X) (6)
Pride R252 (2X) (12, 16, 19)
Pride R290 (2X) (12, 16)
Pride R407 (2X) (2, 3)
Pride R450 (2X) (1, 2, 3, 9, 10)
Pride R501 (2X) (3, 4, 9, 10, 13, 14, 15)
Pride R521 (2X) (2, 3, 9, 10, 13)
Pride R552 (2X) (3)
Pride R728 (3X) (1, 2, 3)
Pride X2400 (2X) (4, 14, 15)
Pride X3500 (2X) (1, 3)

Renk Seed Co., Sun Prairie, Wisconsin

Renk RK5 (2X) (12, 13)
Renk RK11A (2X) (7, 8, 9, 10)
Renk RK44 (2X) (3, 5)
Renk RK55 (2X) (2)
Renk R82 (3X) (18)
Renk R235A (3X) (7, 16)

Stanton Seeds, Stanton, Michigan

Stanton SX1090N (3X) (16)
Stanton SX1095N (3X) (16)
Stanton SX10100N (3X) (16)

Alex M. Stewart & Son, Ltd., Aileas Craig, Ontario, Canada

Stewart 2501 (2X) (14, 15, 18, 20, 21)
Stewart 2913 (2X) (9, 10)
Stewart 2-2102 (2X) (9, 10)
Stewart 3-3301 (3X) (1, 2)
Stewart 3502 (3X) (20, 21)

Taylor-Evans Seed Co., Tulla, Texas

Taylor-Evans Hasty-maker (4X) (1, 3, 9, 10, 19)
Taylor-Evans Market-maker (2X) (1, 3, 9, 10)
Taylor-Evans Profit-maker (2X) (1, 3, 9, 10, 19)
Taylor-Evans Sure-maker (3X) (1, 3, 9, 10)
Taylor-Evans Time-maker (4X) (1, 3, 9, 10)

L. Teweles Seed Co., Clinton, Wisconsin

Teweles SX114 (2X) (16)
Teweles SX117 (2X) (13)
Teweles SX174 (2X) (2, 4)
Teweles SX178 (2X) (4)
Teweles SX184 (Sp.) (2, 4)
Teweles SX185 (2X) (2, 4)
Teweles TX153H (3X) (16)
Teweles TX176A (3X) (16)
Teweles TX180 (2X) (16)
Teweles 263HBT (4X) (16)

Todd Hybrid Corn Co., Burlington, Indiana

Todd M20 (2X) (2)
Todd M35W (2X) (2)
Todd M38A (2X) (11)
Todd M50 (2X) (2)
Todd M66A (2X) (11)
Todd 330 (2X) (2)
Todd 1526 (2X) (2)
Todd 1528 (2X) (2)
Todd 1648 (2X) (2)
Todd HL38 (2X) (High lysine) (11)
Todd HL66A (2X) (High lysine) (11)

Trojan Seed Co., Windfall, Indiana

Trojan TX70 (3X) (18, 19, 20, 21, 22)
Trojan TX85 (3X) (18, 19)
Trojan TX88S (3X) (18, 19)
Trojan TX90 (3X) (12)
Trojan TX92 (2X) (12, 13, 14, 15, 17)
Trojan TX94 (2X) (7, 17)
Trojan TX99 (3X) (17)
Trojan TX100 (3X) (9, 10, 12, 14, 15)
Trojan TX102 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15)
Trojan TXS107 (2X) (3, 6)

Trojan TXS108A (2X) (4, 8, 13, 14, 15)
Trojan TXS111 (2X) (1, 2, 3, 4, 5, 6, 9, 10)
Trojan TXS113 (2X) (1, 2, 4)

Warwick Seed Co., Ltd., Blenheim, Ontario, Canada

Warwick TX22 (Sp.) (20, 21)
Warwick TX27 (3X) (13, 20, 21)
Warwick TX40 (Sp.) (2, 9, 10)
Warwick SL209 (3X) (20, 21)
Warwick 215 (4X) (20, 21)
Warwick 405 (4X) (2, 9, 10, 13)
Warwick SL415 (2X) (2, 9, 10, 13)
Warwick SL501 (Sp.) (2, 9, 10, 13)