Michigan Corn Production Hybrids Compared
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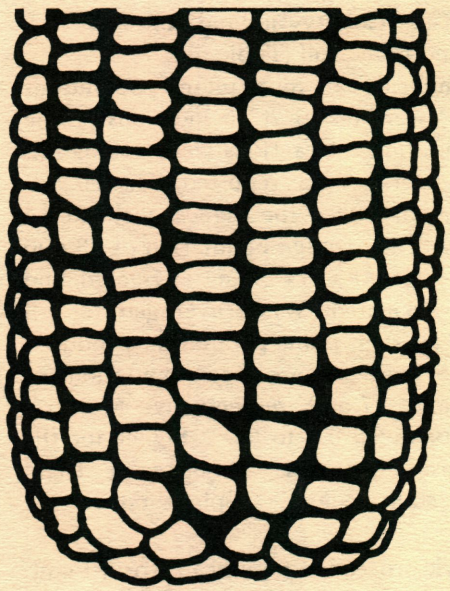

Michigan Corn Production

HYBRIDS COMPARED 1978

Cooperative Extension Service
Michigan State University

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

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

Highest yielding corn hybrids in the 1977 trials produced 31 bushels more corn per acre than the average of 355 hybrids tested and 67 bushels more than the lowest yield hybrids tested (Table A, page 5). The respective yields were 151, 120 and 84 for the highest, average and lowest yielding hybrids at the 18 testing locations. The driest hybrids at harvest contained 5% less moisture than the average and 11% less moisture than the wettest hybrids tested. Stalk breakage averaged 11%, 2% and 0% for hybrids with highest, average and lowest amounts of stalk lodging.

Corn Maturity Zones and Locations (★) of Trials

ENTRIES

Two groups of entries are included in the trials:

1. **Voluntary entries**—all seed companies are invited each year to enter hybrids in the trials. A fee is charged to cover some of the direct expenses.
2. **Extension entries**—Extension entries are included to provide performance data on some of the hybrids not entered as voluntary entries. They are hybrids suggested by County Extension personnel on the basis of extent of use in the various areas of the state.

No distinction between, or identification of, Voluntary and Extension entries is made in reporting the results. All hybrids were randomized and compared in the same field using the same procedures for all.

Table 25 presents an index of all hybrids entered in the 1977 trials. 355 hybrids were tested as 1,902 entries at 18 testing locations. Company names used in association with hybrid numbers refer to the brand, and the number is the hybrid designation.

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

Michigan experimental hybrids are not listed unless seed is 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 all 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 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 yeilds 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, Sanilac, Huron, Missaukee, Alpena, Alger and Menominee Counties trails (Tables 10, 12, 15, 19, 21, 22 and 24). The Sanilac County silage trial was on a different farm from the grain trial.

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 adapted hybrids at four plant populations (15,300 to 27,500) were tested at 16 locations (Table B). Hybrid X population interactions were not significant, so only the averages are reported. The 19,200 average population produced the highest yield at 14 of the 16 locations. The average population of 23,400 gave the highest yield at Cass County-irrigated and Montcalm County-irrigated. When averaged for all locations, 19,200 average plant population produced 14.2, 3.5 and 10.9 bushels more than populations of 15,300, 23,400 and 27,500 respectively. Moisture content of grain averaged 0.2 to 0.9% higher for the higher populations. There was a noticeable trend toward increased stalk lodging as plant population was increased.

Spring field work proceeded rapidly in April. Planting of all trials was completed between April 21 and May 19. About 10% of the state corn acreage was planted by May 1, more than the average of 4%. May was the driest on record and unusually warm in most areas of Michigan. Emergence of seedlings was erratic and delayed due to dry soil conditions following planting. Corn planting was 95% completed by the end of May compared to 70% in the average year.

Moderate to light rains in early June temporarily relieved critically dry soil conditions. Only light showers fell during the following two weeks and soils became extremely dry again. Thunderstorms in late June brought some relief to southern Michigan and most of the upper peninsula. Early planted corn was waist high by late June and averaged 30 inches in height, 10 inches taller than normal.

Rainfall during July was highly variable from one locality to another and soil moisture continued to be deficient in most areas. Some fields were tasseled by July 11 when average plant height was 45 inches, 15 inches ahead of normal. Average plant height was highest in recent memory at this date. By July 25, 60% of the crop was silked compared to 40% normal.

Moderate to heavy early August rains relieved moisture stress in much of the state. More rain in late August raised soil moisture to adequate or surplus in most areas. August rains improved yield prospects except on critically dry sandy soils.

Rains continued during most of September. One third of the crop was mature by September 19 compared to 24% normally. Light frosts had occurred by October 11, but the crop was generally matured well ahead of killing frost.

More rain during October and November delayed corn harvest. Some moldy corn developed and stalk

lodging increased where harvest was delayed. By Nov. 1, 40% was harvested compared to 65% in 1976 and a normal 43%. By Nov. 21, 75% had been harvested compared to 90% in 1976 and 76% normally. Yields were generally better than expected in most areas.

The Michigan Crop Reporting Service estimates the 1977 average corn yield at 85 bushels per acre (a record high) compared to 69 in 1976, 80 in 1975, 63 in 1974, 79 in 1973 and 83 (previous record high) in 1972. A total of 2,500,000 acres were planted in 1977, 2% more than in 1976. 2,050,000 acres were harvested for grain and 450,000 for silage. The total crop is estimated at 174 million bushels, 23% more than the 1976 crop.

HOW TO USE THIS BULLETIN

One-, two- and three-year averages are presented for all hybrids tested during 1977, 1976, and 1975. 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.
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 chopped silage (fodder plus grain) 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 bushes per acre. Rainfall deficiencies with high plant populations usually result in no increase and frequently a decrease in yield compared to 18,000 to 19,000 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. Differences 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. 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 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.

TO REDUCE STALK LODGING

Several stalk-rotting fungi may cause broken stalks at harvest and create a major problem in corn production. Stalk rot is a disease of old age in that these fungi increase rapidly after the plant has matured or when the plant has died prematurely. Highest incidence of stalk rot occurs in years when corn matures early and when harvest is delayed. Infection and disease development are favored by warm humid weather with abundant rainfall during the latter part of the growing season.

Hybrid resistance to stalk rot is only one of several factors that determine the extent of stalk breakage. There are no clear-cut cases of specific hybrids that can be depended upon consistently to resist stalk rot under all conditions of soil fertility, plant population, plant stress and maturity. A major part of the difference in resistance to lodging appears to be mechanical, in that stiffer stalks do not break as soon when disease attacks.

The most effective practice to reduce losses from stalk rot is to harvest as soon as possible after maturity. Stalk breakage continues to increase rapidly in warm, damp weather when harvest is delayed. Early-maturing hybrids that mature in September will have more stalk breakage than later-maturing hybrids harvested in November and December. There may be little or no advantage to planting early-maturing hybrids if harvest is delayed.

To avoid problems, the best combination is to choose high yielding early maturing hybrids, plant early and harvest early.

TO AVOID MOLDY CORN IN 1978

The following recommendations will help avoid moldy corn in 1978:

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.

SEED SUPPLIES FOR 1978

A good supply of high-quality hybrid seed corn is available for 1978 planting. Most of the seed-producing areas had a fair to good growing season with no early killing frost and fair harvest conditions. Some areas had dry conditions reducing seed supplies of some hybrids. However, the total supply for 1978 is adequate.

Table A. **Average, highest, lowest moisture content, grain yield and stalk lodging at 18 locations in 1977.**

Location	No. of Hybrids	% Moisture			Bushels per acre			% Stalk lodging		
		Ave.	Highest	Lowest	Ave.	Highest	Lowest	Ave.	Highest	Lowest
Monroe	98	23.1	27.4	19.3	138.9	173.1	94.3	2.1	8.6	0.0
Hillsdale	105	25.6	31.3	19.5	100.1	127.0	71.0	0.3	3.3	0.0
Branch	121	25.6	31.3	20.2	156.1	202.4	91.1	2.9	13.4	0.0
Kalamazoo	68	30.2	34.5	23.7	116.9	146.8	84.9	0.8	14.8	0.0
Cass-upland irrigated	103	25.6	31.8	19.7	146.8	179.3	96.0	4.0	18.9	0.0
Cass-muck soil	81	28.2	33.0	22.2	126.3	158.2	90.2	2.9	10.8	0.0
Kent	86	24.6	28.1	20.6	120.0	152.9	91.1	1.9	9.2	0.0
Ottawa	62	27.5	32.8	21.5	129.0	154.0	101.3	0.6	6.0	0.0

(Continued)

Location	No. of Hybrids	% Moisture			Bushels per acre			% Stalk lodging		
		Ave.	Highest	Lowest	Ave.	Highest	Lowest	Ave.	Highest	Lowest
Ingham	119	24.2	28.9	20.0	132.4	163.3	94.9	2.2	19.1	0.0
Sanilac	98	27.2	31.2	22.2	141.9	165.8	104.4	0.2	2.8	0.0
Saginaw	96	29.1	33.7	23.5	94.6	131.2	68.0	0.4	3.4	0.0
Huron	111	29.1	34.9	23.8	131.7	174.9	76.9	2.6	21.0	0.0
Montcalm-irrigated	72	30.0	34.1	24.8	124.7	158.1	89.4	4.1	19.1	0.0
Montcalm-not irrigated	72	30.0	34.1	24.8	72.9	88.2	55.5	1.5	7.5	0.0
Mason	48	28.3	34.0	22.7	110.3	143.6	75.5	0.5	3.6	0.0
Grand Traverse	40	25.0	31.8	21.7	91.5	112.2	72.2	1.2	4.5	0.0
Alpena	50	33.2	44.8	26.5	110.8	134.0	66.2	4.7	20.7	0.0
Menominee	37	37.2	42.3	33.7	117.5	143.4	82.6	–	–	–
Average		28.0	33.3	22.9	120.1	150.5	83.6	2.0	11.0	0.0

Table B. **Average yield, % moisture and % stalk lodging at four plant populations for 16 locations in 1977.**

	Bushels per acre				% Moisture in grain				% Stalk lodging			
	15,300	19,200	23,400	27,500	15,300	19,200	23,400	27,500	15,300	19,200	23,400	27,500
Monroe	126.4	139.7	135.1	129.2	22.7	22.8	23.1	23.0	2.9	3.0	5.5	7.1
Hillsdale	119.1	132.0	129.4	121.7	24.4	24.3	24.9	25.1	0.6	2.2	4.7	5.2
Branch	150.3	168.7	162.4	159.5	24.1	24.4	24.4	24.8	1.2	3.5	7.9	11.4
Kalamazoo	119.9	137.2	132.3	124.4	28.4	28.0	28.9	29.3	1.8	2.0	5.1	9.8
Cass-upland irrigated	141.3	157.4	168.8	155.9	24.0	24.4	24.6	24.7	3.1	5.2	10.7	13.8
Cass-muck soil	139.4	147.0	141.6	135.3	26.5	26.9	26.9	27.2	1.9	4.1	6.5	9.4
Kent	124.8	141.9	137.2	128.5	23.7	23.9	24.4	24.8	0.5	2.6	7.0	7.8
Ottawa	132.6	147.3	145.7	137.7	26.7	26.5	27.2	27.2	0.7	0.9	3.1	5.5
Ingham	138.9	154.0	148.5	140.3	23.8	24.1	24.5	24.8	1.7	3.9	11.4	16.2
Sanilac	143.5	159.7	150.2	147.4	25.9	26.5	26.9	27.3	0.5	0.4	1.0	3.9
Saginaw	111.8	126.6	122.9	114.5	28.8	29.5	29.6	30.0	0.5	0.9	0.7	3.3
Huron	143.4	160.2	155.6	147.2	27.2	27.4	27.9	28.5	1.1	4.0	9.9	12.0
Montcalm-irrigated	141.3	152.0	160.1	149.8	28.9	28.5	29.4	29.6	3.0	4.5	8.1	13.8
Montcalm-not irrigated	73.6	81.4	70.3	69.1	29.3	29.6	29.9	30.4	1.9	2.1	3.8	6.4
Mason	121.4	138.6	133.9	125.7	27.0	27.5	27.9	28.5	1.0	0.7	1.2	3.1
Grand Traverse	95.5	108.1	100.4	90.8	24.8	25.0	25.6	25.9	0.4	1.0	5.0	5.9
Average	126.5	140.7	137.2	129.8	26.0	26.2	26.6	26.9	1.4	2.6	5.7	8.4

Table 1. SOUTHERN MICHIGAN Zone 1
MONROE COUNTY TRIAL
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Michigan 333-3X (3X)	19.3	20	20	108.9	112	114	3.2	4	5
Pioneer 3901 (2X)	20.1	–	–	134.7	–	–	0.9	–	–
Migro M-0101 (2X)	20.1	–	–	117.8	–	–	0.0	–	–
Funk G-4252 (3X)	20.2	–	–	108.0	–	–	4.7	–	–
Michigan 3093 (3X)	20.6	21	–	131.7	118	–	2.5	3	–
Dennis DS90 (2X)	20.6	–	–	107.2	–	–	2.9	–	–
Migro M-0105 (2X)	20.6	–	–	127.0	–	–	2.0	–	–
Acco UC1151 (2X)	20.7	–	–	112.4	–	–	2.0	–	–
Garno S-89 (2X)	20.8	–	–	125.6	–	–	2.2	–	–
Northrup King PX32 (2X)	21.2	–	–	125.4	–	–	0.0	–	–
Michigan 3102 (2X)	21.3	22	–	131.1	119	–	3.0	3	–
Funk G4272 (3X)	21.3	24	–	122.6	113	–	6.4	5	–
Funk G4321A (2X)	21.4	23	–	143.7	134	–	2.0	4	–
Payco SX775 (2X)	21.4	–	–	136.7	–	–	0.9	–	–
O's Gold SX949 (2X)	21.5	–	–	124.4	–	–	7.7	–	–
Garno S-82 (2X)	21.5	–	–	127.6	–	–	1.1	–	–
Cowbell 7440 (2X)	21.5	24	–	127.4	121	–	5.2	5	–
Michigan 410-2X (2X)	21.6	23	22	137.3	124	129	0.9	2	2
*Anderson AX-5 (Sp.)	21.6	–	–	157.0	–	–	2.0	–	–
Anderson AX-4 (Sp.)	21.7	–	–	150.3	–	–	8.6	–	–
Blaney EX7305 (2X)	21.7	–	–	103.9	–	–	0.0	–	–
Northrup King PX34 (2X)	21.8	–	–	133.9	–	–	4.5	–	–
Michigan 407-2X (2X)	21.9	23	22	138.8	130	138	2.7	4	3
*Anderson SSE (2X)	22.0	–	–	169.3	–	–	0.9	–	–

(Continued)

TABLE 1. (Continued)

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
DeKalb XL21A (2X)	22.0	–	–	115.8	–	–	5.0	–	–
Super Crost 2350 (2X)	22.1	23	–	114.5	120	–	1.1	2	–
Golden Harvest H-2450 (2X)	22.1	24	23	127.2	128	142	0.0	2	2
Pioneer 3663 (4X)	22.2	–	–	101.2	–	–	0.0	–	–
Blaney B606 (2X)	22.2	23	22	146.8	121	133	1.1	1	1
Super Crost S27 (2X)	22.3	25	24	107.3	112	125	4.2	6	4
Super Crost 2470 (2X)	22.3	24	–	137.4	124	–	0.0	2	–
Michigan 3953 (3X)	22.3	–	–	139.2	–	–	3.6	–	–
Dairyland DX1008 (2X)	22.3	–	–	134.3	–	–	0.0	–	–
Trojan T1012 (2X)	22.3	–	–	146.4	–	–	2.0	–	–
*Funk G-4430 (2X)	22.4	–	–	151.9	–	–	0.0	–	–
Michigan 4122 (2X)	22.4	24	23	147.4	133	136	1.0	3	2
DeKalb XL42 (2X)	22.4	23	23	139.4	132	139	0.0	2	2
*Funk G-4444 (2X)	22.4	24	23	152.0	131	136	3.7	5	4
Acco UC3002 (2X)	22.4	–	–	143.0	–	–	5.8	–	–
U.S. Steel 0011 (2X)	22.4	–	–	135.3	–	–	0.0	–	–
Migro M-2018X (2X)	22.5	–	–	148.7	–	–	1.9	–	–
Michigan 575-2X (2X)	22.5	24	23	135.2	124	134	2.3	3	3
*Migro M-2022X (2X)	22.5	–	–	154.3	–	–	5.1	–	–
O's Gold SX1111 (2X)	22.6	–	–	146.7	–	–	0.8	–	–
Payco SX865 (2X)	22.6	–	–	119.2	–	–	2.0	–	–
Cargill 890 (2X)	22.7	24	23	144.6	134	130	2.7	3	2
Michigan 5443 (3X)	22.8	24	23	146.2	130	137	4.9	5	5
*Northrup King PX 585 (3X)	22.8	–	–	155.8	–	–	0.0	–	–
*Pioneer 3780 (2X)	22.8	24	23	151.9	139	136	2.9	3	2
Northrup King PX48 (2X)	22.8	–	–	145.0	–	–	3.8	–	–
*Payco SX990 (2X)	22.8	–	–	151.8	–	–	1.9	–	–
Payco SX811 (3X)	22.8	–	–	118.4	–	–	4.9	–	–
Michigan 5802 (2X)	22.9	24	24	149.1	141	146	4.5	4	3
Acco UC2301 (2X)	22.9	–	–	123.5	–	–	0.0	–	–
Blaney B606E (2X)	22.9	–	–	146.7	–	–	0.0	–	–
Renk RK66 (2X)	22.9	–	–	121.2	–	–	0.0	–	–
DeKalb XL43A (Sp.)	23.0	25	25	136.0	120	122	0.0	2	2
Blaney B601-WX (2X)	23.0	–	–	141.1	–	–	7.4	–	–
*Pioneer 3535 (2X)	23.1	25	24	159.7	140	142	0.9	2	1
Cardinal SX112 (2X)	23.1	–	–	144.0	–	–	0.9	–	–
Funk G-4408 (2X)	23.1	25	24	136.3	120	130	5.5	4	4
Super Crost 2890 (2X)	23.2	24	24	145.6	130	138	0.0	1	2
*Wolverine W174 (2X)	23.3	24	23	154.0	128	136	0.0	2	2
*Northrup King PX46 (2X)	23.3	–	–	161.3	–	–	1.0	–	–
Pioneer 3591 (Sp.)	23.3	–	–	141.6	–	–	1.9	–	–
Amcorn 7300 (2X)	23.3	25	–	135.5	129	–	3.1	4	–
Dennis DS6 (2X)	23.4	–	–	143.5	–	–	1.9	–	–
Voris 2380 (2X)	23.4	–	–	134.9	–	–	7.9	–	–
U.S. Steel 0010 (2X)	23.5	–	–	130.4	–	–	0.0	–	–
*Anderson SSM (2X)	23.5	–	–	161.7	–	–	0.9	–	–
Hulting X770 (2X)	23.5	25	24	142.4	125	130	2.0	6	4
Migro M-3020 (4X)	23.6	25	24	132.4	124	132	1.2	3	2
Dennis DS47A (2X)	23.7	–	–	146.8	–	–	0.0	–	–
P-A-G SX397 (2X)	23.8	25	24	142.7	132	137	2.7	6	6
Amcorn 7480 (2X)	24.0	24	24	134.3	123	122	0.0	1	1
Super Crost 2890A (2X)	24.1	–	–	133.3	–	–	2.1	–	–
Blaney B703 (2X)	24.1	–	–	132.3	–	–	0.0	–	–
Super Crost 4350 (2X)	24.4	25	–	135.8	130	–	0.0	0	–
Super Crost 4242 (2X)	24.5	25	23	137.9	126	128	1.9	6	5
*Acco UC3301A (2X)	24.5	–	–	153.7	–	–	6.1	–	–
Garno S-100 (2X)	24.6	24	–	145.0	130	–	0.0	2	–
*Super Crost 5440 (2X)	24.8	28	27	166.1	140	145	0.0	0	0
Acco UC4201 (2X)	24.8	–	–	140.8	–	–	5.9	–	–
*Migro M-0301 (2X)	24.8	28	–	151.9	137	–	3.7	2	–
Funk G-4449 (2X)	25.0	–	–	148.4	–	–	2.6	–	–
*Funk G-4507 (2X)	25.0	–	–	166.3	–	–	0.0	–	–
*Blaney B805 (2X)	25.6	27	–	165.7	153	–	0.9	3	–
*Voris 2532 (2X)	25.8	28	–	173.1	149	–	1.0	1	–
*Northrup King PX65 (2X)	25.9	–	–	165.5	–	–	2.9	–	–
*Migro M-0501 (2X)	26.4	29	27	167.0	131	135	0.0	1	1
*Migro M-0505 (2X)	26.8	28	–	170.8	156	–	1.7	1	–
*Renk RK77 (2X)	27.1	–	–	168.9	–	–	1.9	–	–
*Golden Harvest H-2500 (2X)	27.1	28	–	172.4	142	–	0.0	0	–
Dennis 37E (2X)	27.1	27	–	144.3	137	–	0.9	2	–
*Trojan TXS115A (2X)	27.3	–	–	158.8	–	–	0.9	–	–
*Pride 7715 (2X)	27.3	27	27	161.3	132	144	2.5	1	1
*Golden Harvest H-2600 (2X)	27.4	–	–	154.5	–	–	0.0	–	–
*Hancock X152 (2X)	27.4	–	–	157.2	–	–	1.6	–	–
Average	23.1	25	24	138.9	131	134	2.1	3	2
Range	19.3 to 27.4	20 to 29	20 to 27	94.3 to 173.1	113 to 156	122 to 146	0.0 to 8.6	0 to 6	0 to 6
Least significant difference	1.2	0.8	0.7	12.6	7	5			

*Significantly better than average yield in 1977.

	1977	1976	1975
Planted	April 21	May 14	May 5
Harvested	October 18	October 26	October 27
Soil Type	Pewamo loam	Pewamo loam	Metamora sandy loam
Previous Crop	Corn	Wheat	Corn
Population	18,200	18,900	20,300
Rows	30"	30"	30"
Fertilizer	235-180-180	233-158-158	206-198-198
Soil Test: pH	6.7	6.5	6.5
p	207 (very high)	214 (very high)	213 (very high)
K	174 (medium)	217 (high)	223 (high)

Farm Cooperators: Orville Montri, LaSalle
County Extension Director: Paul Nevel, Monroe

Table 2. SOUTHERN MICHIGAN Zone 1
HILLSDALE COUNTY TRIAL
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Michigan 3093 (3X)	19.5	21	–	84.2	95	–	0.7	3	–
Michigan 333-3X (3X)	19.6	21	21	88.9	99	106	0.8	1	1
Pioneer 3977 (3X)	19.7	–	–	93.4	–	–	1.4	–	–
Jacques JX92 (2X)	20.6	–	–	98.8	–	–	1.8	–	–
Michigan 3102 (2X)	20.9	22	–	94.0	102	–	0.0	3	–
Migro M-0101 (2X)	21.9	–	–	99.8	–	–	0.0	–	–
Pioneer 3958 (2X)	22.0	–	–	71.0	–	–	1.6	–	–
Blaney B302 (2X)	22.1	–	–	76.0	–	–	0.0	–	–
Blaney B401 (2X)	22.2	23	–	91.7	97	–	0.0	1	–
Golden Harvest H-2370 (2X)	22.2	–	–	95.0	–	–	0.0	–	–
Jacques JX52 (2X)	22.4	–	–	95.7	–	–	0.0	–	–
Michigan 407-2X (2X)	22.5	24	24	100.2	111	120	0.0	3	3
*Michigan 4122 (2X)	22.5	24	25	111.8	121	128	0.0	1	1
Northrup King PX32 (2X)	22.5	–	–	110.0	–	–	0.0	–	–
Warwick SL501 (Sp.)	22.7	24	23	98.6	99	105	0.0	1	1
*Northrup King PX585 (3X)	23.0	–	–	111.7	–	–	0.0	–	–
Michigan 3953 (3X)	23.0	–	–	95.8	–	–	0.0	–	–
Blaney B402 (2X)	23.1	–	–	78.6	–	–	0.0	–	–
*Blaney B506 (2X)	23.2	–	–	116.5	–	–	0.0	–	–
Jacques JX124A (2X)	23.4	–	–	93.8	–	–	0.0	–	–
O's Gold SX949 (2X)	23.5	–	–	91.3	–	–	0.0	–	–
Migro M-0105 (2X)	23.6	–	–	96.3	–	–	0.0	–	–
Pioneer 3780 (2X)	23.7	25	25	98.6	110	117	0.7	4	3
*Pride 5525 (2X)	23.8	–	–	114.4	–	–	0.0	–	–
Golden Harvest H-2420 (2X)	23.9	–	–	95.3	–	–	0.0	–	–
Funk G-4272 (3X)	23.9	26	–	95.5	102	–	0.0	2	–
Blaney B606 (2X)	24.1	26	26	108.7	119	124	0.0	1	1
Michigan 410-2X (2X)	24.1	24	24	100.7	112	118	0.8	3	2
Super Crost S27 (2X)	24.1	25	26	88.0	100	111	0.0	2	1
*Super Crost 2350 (2X)	24.1	–	–	117.4	–	–	1.7	–	–
Cargill 863 (2X)	24.3	27	–	97.3	110	–	2.3	2	–
Michigan 5443 (3X)	24.3	25	25	109.7	118	122	0.8	2	2
Pride 4404 (2X)	24.5	24	–	88.0	107	–	0.0	2	–
Northrup King PX34 (2X)	24.5	–	–	102.8	–	–	0.0	–	–
Gutwein 40 (2X)	24.5	25	25	83.9	93	100	0.0	2	1
Gutwein 112 (3X)	24.6	–	–	82.6	–	–	0.0	–	–
Blaney EX7305 (2X)	24.6	25	25	89.8	103	116	0.0	4	2
Warwick W1101 (2X)	24.7	–	–	94.2	–	–	0.0	–	–
Golden Harvest H-2450 (2X)	24.9	–	–	82.9	–	–	0.0	–	–
Funk G-4343 (2X)	24.9	27	26	98.4	101	104	0.0	4	5
Trojan TXS105A (2X)	25.0	–	–	104.0	–	–	1.6	–	–
*Parker 30A (2X)	25.0	–	–	118.5	–	–	0.0	–	–
O's Gold SX1107 (2X)	25.0	–	–	102.6	–	–	0.0	–	–
Muncy Chief SX442 (2X)	25.0	26	26	78.1	89	93	1.8	5	4
Funk G-4321A (2X)	25.0	27	–	112.0	120	–	1.5	2	–
Renk RK66 (2X)	25.2	–	–	98.0	–	–	0.0	–	–
*DeKalb XL42 (2X)	25.2	26	–	111.3	122	–	0.0	3	–
Migro M-2022 (2X)	25.3	–	–	105.8	–	–	0.0	–	–
Michigan 5802 (2X)	25.3	26	26	105.9	118	127	0.0	1	0
Amcorn 7300 (2X)	25.4	25	25	105.5	110	113	0.0	5	3
*Super Crost 2470 (2X)	25.4	27	–	117.2	111	–	0.0	1	–
Bayless SX434M (2X)	25.5	25	25	108.3	117	114	0.0	2	1
Blaney B-AA (2X)	25.5	26	26	90.4	97	114	0.0	1	2
Gutwein 46 (2X)	25.5	28	26	106.9	118	115	0.0	2	2
Michigan 575-2X (2X)	25.5	26	26	94.1	115	123	0.0	0	2
Funk G-4444 (2X)	25.6	26	26	93.0	107	116	2.0	4	4
Blaney B601-WX (2X)	25.6	–	–	100.7	–	–	0.0	–	–
Pioneer 3709 (MSX)	25.7	27	–	104.4	118	–	0.0	1	–
Cowbell 7440 (2X)	25.7	28	–	102.4	114	–	0.0	2	–
*Trojan TXS108A (2X)	25.7	28	27	111.6	128	134	0.0	1	1

(Continued)

TABLE 2. (Continued)

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Pride 501 (3X)	25.8	26	–	89.9	89	–	3.3	5	–
*Cargill 434 (3X)	25.8	26	–	111.3	121	–	0.0	4	–
Gutwein 22 (2X)	25.8	–	–	90.1	–	–	0.0	–	–
Pioneer 3535 (2X)	25.8	27	26	93.3	112	121	0.0	0	1
*Funk G-4430 (2X)	25.8	–	–	127.0	–	–	0.8	–	–
*Migro M-2018X (2X)	25.9	–	–	119.2	–	–	0.7	–	–
Acco UC3002 (2X)	26.0	–	–	92.2	–	–	0.0	–	–
*Northrup King PX50A (2X)	26.1	28	28	123.7	125	129	1.7	3	2
Trojan TXS102 (2X)	26.1	28	28	92.7	102	107	0.0	1	1
Gutwein 44 (2X)	26.3	–	–	89.7	–	–	0.0	–	–
Blaney B703 (2X)	26.4	–	–	110.8	–	–	0.8	–	–
Northrup King PX46 (2X)	26.4	–	–	93.1	–	–	0.8	–	–
Migro M-1130 (2X)	26.6	26	27	90.2	99	105	0.0	1	1
*Hulting X770 (2X)	26.6	28	28	120.1	122	122	0.7	2	3
Funk G-4408 (2X)	26.6	28	28	106.6	111	111	0.0	2	1
Migro M-0301 (2X)	26.6	27	–	104.6	101	–	0.0	2	–
Wolverine W174 (2X)	26.7	27	26	105.5	112	114	0.0	0	1
Hulting X9770 (3X)	26.7	28	27	90.9	111	109	1.4	6	5
*Northrup King PX48 (2X)	27.0	27	–	114.5	108	–	0.0	2	–
Super Crost 2890A (2X)	27.2	–	–	90.8	–	–	0.0	–	–
P-A-G SX424 (2X)	27.2	28	–	89.1	117	–	0.0	3	–
Super Crost 2890 (2X)	27.3	26	26	97.6	112	112	0.0	2	2
*Hancock X152 (2X)	27.3	–	–	119.0	–	–	1.5	–	–
Pioneer 3591 (Sp.)	27.4	–	–	99.9	–	–	1.5	–	–
P-A-G SX397 (2X)	27.4	–	–	97.4	–	–	0.8	–	–
Bayless SX4346 (2X)	27.4	–	–	82.5	–	–	0.0	–	–
Super Crost 4350 (2X)	27.5	29	–	104.4	107	–	0.0	2	–
Acco UC3301A (2X)	27.6	–	–	98.5	–	–	1.6	–	–
*Migro M-4501 (2X)	27.7	28	28	119.5	129	132	0.7	5	4
Amcorn 7480 (2X)	27.8	28	27	92.2	112	114	0.8	3	2
*Bayless SX447 (2X)	28.1	28	–	114.3	113	–	0.0	2	–
U.S. Steel 0555A (3X)	28.3	–	–	97.1	–	–	0.0	–	–
Northrup King PX65 (2X)	28.8	–	–	108.3	–	–	0.0	–	–
Funk G-4449 (2X)	28.8	–	–	94.1	–	–	0.0	–	–
Gutwein 69A (2X)	29.3	30	29	100.2	115	122	0.0	3	5
Super Crost 4242 (2X)	29.5	29	28	86.9	108	109	0.8	2	2
Muncy Chief SX550 (2X)	29.7	28	28	87.7	95	97	0.0	2	1
Migro M-0505 (2X)	30.2	32	–	103.3	102	–	0.0	1	–
Muncy Chief SX662 (2X)	30.4	31	31	84.8	94	104	0.0	2	2
*Bayless SX637 (2X)	30.5	31	–	116.0	120	–	0.0	2	–
*Gutwein 62 (2X)	30.7	32	31	115.2	124	131	0.0	2	2
Super Crost 5440 (2X)	30.7	–	–	100.8	–	–	0.0	–	–
Funk G-4507 (2X)	30.7	–	–	109.4	–	–	0.0	–	–
Pride 7715 (2X)	31.1	32	31	92.6	110	123	0.0	2	2
Blaney B805 (2X)	31.2	–	–	105.4	–	–	0.0	–	–
Hulting X9660 (2X)	31.3	–	–	84.9	–	–	0.0	–	–
Average	25.6	27	26	100.1	110	115	0.3	2	2
Range	19.5 to 31.3	21 to 32	21 to 31	71.0 to 127.0	89 to 129	93 to 134	0.0 to 3.3	0 to 6	0 to 5
Least significant difference	1.3	0.9	0.7	11.2	7	5			

Significantly better than average yield in 1977.

	1977	1976	1975
Planted	May 14	May 11	May 20
Harvested	October 21	October 29	October 30
Soil Type	Griffin sandy loam	Griffin sandy loam	Griffin sandy loam
Previous Crop	Soybeans	Corn	Wheat seeded to clover
Population	20,800	19,700	19,100
Rows	30"	30"	30"
Fertilizer	136-118-192	117-66-186	112-48-48
Soil Test: pH	6.8	6.8	6.3
p	32 (low)	47 (medium)	47 (medium)
K	236 (high)	222 (high)	229 (high)

Farm Cooperator: Dean Shamplo, Pittsford
Extension Field Crops Agent: E. A. Netherton, Hillsdale

Table 3. SOUTHERN MICHIGAN Zone 1
Branch County Trial
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Michigan 333-3X (3X)	20.2	20	20	95.5	97	107	12.5	6	5
Jacques JX92 (2X)	20.9	–	–	102.0	–	–	13.7	–	–
Golden Harvest H-2220 (4X)	21.3	–	–	92.0	–	–	3.1	–	–
Michigan 3093 (3X)	21.4	21	–	109.8	105	–	0.7	0	–
Dennis DS90 (2X)	21.7	–	–	99.4	–	–	3.8	–	–
Pioneer 3977 (3X)	21.8	–	–	91.1	–	–	13.4	–	–
Michigan 3102 (2X)	22.2	22	–	126.8	115	–	1.5	1	–
Funk G-4252 (3X)	22.3	–	–	100.1	–	–	11.1	–	–
Migro M-0105 (2X)	22.7	–	–	129.9	–	–	11.9	–	–
Jacques JX124A (2X)	22.9	–	–	126.9	–	–	0.8	–	–
Pioneer 3958 (2X)	23.1	–	–	102.4	–	–	3.0	–	–
Amcorn 4100 (2X)	23.2	–	–	121.6	–	–	9.7	–	–
Blaney B-AA (2X)	23.3	–	–	139.2	–	–	3.0	–	–
Golden Harvest H-2370 (2X)	23.5	–	–	130.4	–	–	4.4	–	–
Northrup King PX34 (2X)	23.5	–	–	135.0	–	–	6.0	–	–
Golden Harvest H-2450 (2X)	23.5	25	26	143.4	127	141	3.0	2	2
Renk RK15 (2X)	23.5	–	–	153.8	–	–	0.7	–	–
Super Crost 2350 (2X)	23.5	24	–	165.3	144	–	3.0	2	–
Michigan 4122 (2X)	23.5	24	25	161.7	142	151	4.1	3	2
Solar B6416 (3X)	23.6	–	–	134.2	–	–	3.7	–	–
Funk G-4343 (2X)	23.7	24	25	140.6	122	133	3.8	2	2
Michigan 407-2X (2X)	23.7	24	24	147.2	125	139	0.7	1	1
Northrup King PX32 (2X)	23.8	25	–	138.2	136	–	6.7	4	–
Anderson SSE (2X)	23.9	–	–	164.0	–	–	4.1	–	–
Voris 2372 (2X)	23.9	–	–	151.2	–	–	2.8	–	–
Michigan 410-2X (2X)	23.9	24	24	141.9	124	133	4.4	3	2
Northrup King PX585 (3X)	24.0	–	–	154.4	–	–	1.6	–	–
Wolverine W169 (2X)	24.0	–	–	148.1	–	–	2.2	–	–
Funk G-4408 (2X)	24.0	25	26	169.5	141	152	0.7	1	1
Dairyland DX1008 (2X)	24.0	25	–	148.0	124	–	9.1	5	–
Jacques JX52 (2X)	24.1	–	–	121.0	–	–	8.5	–	–
Golden Harvest H-2420 (2X)	24.1	–	–	165.9	–	–	2.1	–	–
Michigan 5443 (3X)	24.2	25	25	149.7	124	136	6.0	5	4
Funk G-4272 (3X)	24.2	24	–	143.8	122	–	3.5	2	–
Solar A6453 (2X)	24.2	–	–	136.2	–	–	2.2	–	–
Cargill 890 (2X)	24.2	24	26	167.6	133	137	2.3	3	2
Solar A6315 (2X)	24.3	–	–	164.5	–	–	2.2	–	–
Solar B3757 (3X)	24.3	–	–	132.8	–	–	6.9	–	–
Dairyland DX1005 (2X)	24.4	–	–	146.9	–	–	0.0	–	–
Parker 30A (2X)	24.5	–	–	167.7	–	–	3.6	–	–
Solar A6370 (2X)	24.5	–	–	148.8	–	–	3.8	–	–
Super Crost S27 (2X)	24.5	25	25	146.3	123	135	0.7	0	0
*Pioneer 3780 (2X)	24.6	25	24	173.3	136	145	4.5	5	3
Funk G-4444 (2X)	24.6	26	26	164.3	137	148	3.0	2	2
Northrup King PX48 (2X)	24.7	25	26	167.8	141	142	0.0	0	0
Amcorn 7480 (2X)	24.7	26	27	152.7	131	133	0.0	0	1
Michigan 575-2X (2X)	24.7	25	26	161.7	136	143	0.8	2	2
Super Crost 2470 (2X)	24.7	26	–	141.8	124	–	1.6	1	–
Pride 5525 (2X)	24.7	25	26	143.4	124	136	0.0	1	1
Blaney B606 (2X)	24.8	26	26	171.5	144	151	0.0	0	0
Gutwein 44 (2X)	24.8	–	–	164.8	–	–	0.7	–	–
*Gutwein 40 (2X)	24.8	–	–	172.6	–	–	2.2	–	–
Michigan 5802 (2X)	24.8	25	26	165.1	144	157	4.7	2	2
Funk G-4321A (2X)	24.8	25	–	154.2	133	–	3.4	2	–
Pioneer 3709 (Sp.)	24.9	25	–	161.2	131	–	0.0	0	–
*Migro M-2018 (2X)	25.0	–	–	175.5	–	–	4.2	–	–
*Cowbell 7440 (2X)	25.0	26	26	174.6	135	138	6.2	3	2
Trojan TXS102 (2X)	25.1	26	27	147.5	123	137	1.4	2	1
Pride 4404 (2X)	25.1	–	–	148.6	–	–	2.2	–	–
Trojan TXS105A (2X)	25.1	–	–	153.7	–	–	0.0	–	–
Voris 2422 (2X)	25.1	27	–	165.0	146	–	1.5	2	–
Migro M-2022X (2X)	25.2	–	–	160.9	–	–	0.0	–	–
Cargill 434 (3X)	25.4	–	–	149.9	–	–	2.2	–	–
Acco UC3002 (2X)	25.4	–	–	164.0	–	–	2.2	–	–
Cargill 863 (2X)	25.5	–	–	149.2	–	–	5.1	–	–
Wolverine W170 (2X)	25.6	–	–	153.1	–	–	0.7	–	–
*Pioneer 3535 (2X)	25.6	26	27	178.2	140	144	0.0	0	0
Bayless SX434M (2X)	25.6	26	27	167.6	147	151	0.8	0	0
Migro M-1130 (2X)	25.7	26	27	144.5	114	134	0.8	1	1
Bayless SX4346 (2X)	25.7	–	–	155.6	–	–	0.8	–	–
*Funk G-4430 (2X)	25.7	–	–	179.6	–	–	6.3	–	–
Blaney B703 (2X)	25.8	–	–	171.3	–	–	1.5	–	–
Anderson AX-4 (Sp.)	25.8	–	–	148.8	–	–	2.2	–	–
Pride 501 (3X)	25.8	–	–	149.3	–	–	2.1	–	–
DeKalb XL42 (2X)	25.8	–	–	164.4	–	–	5.9	–	–

(Continued)

Table 3. (Continued)

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Hulting X770 (2X)	25.9	26	26	162.3	128	144	0.0	1	1
Northrup King PX46 (2X)	26.0	–	–	163.5	–	–	0.7	–	–
Anderson SSM (2X)	26.0	–	–	139.9	–	–	0.0	–	–
Amcorn 7300 (2X)	26.1	26	25	150.9	117	126	8.7	4	3
Trojan TXS108A (2X)	26.1	–	–	164.2	–	–	5.6	–	–
Dairyland DX1007 (2X)	26.2	–	–	155.3	–	–	0.7	–	–
Pioneer 3591 (Sp.)	26.3	–	–	156.3	–	–	1.7	–	–
*Super Crost 4242 (2X)	26.3	26	27	181.5	135	142	4.9	3	2
Gutwein 46 (2X)	26.5	–	–	164.9	–	–	0.8	–	–
Dennis DS6 (2X)	26.6	–	–	166.8	–	–	0.0	–	–
Pride 5574 (2X)	26.6	25	26	155.1	125	138	0.7	1	1
*Cargill 449 (3X)	26.7	26	27	174.9	142	147	2.9	1	1
*Solar A7315 (2X)	26.8	–	–	186.5	–	–	2.2	–	–
Anderson AX-5 (Sp.)	26.9	–	–	168.5	–	–	0.7	–	–
ADI 315 (2X)	27.1	–	–	162.4	–	–	0.0	–	–
*Blaney B601-WX (2X)	27.1	–	–	178.5	–	–	5.8	–	–
*P-A-G SX397 (2X)	27.2	28	29	178.8	143	144	3.0	5	3
*Gutwein 69A (2X)	27.4	27	–	178.2	144	–	2.2	1	–
*Bayless SX447 (2X)	27.5	27	28	183.2	145	157	7.0	4	3
*Super Crost 5440 (2X)	27.5	31	–	186.1	142	–	0.0	0	–
*Hancock X152 (2X)	27.6	–	–	178.0	–	–	0.0	–	–
Northrup King PX50A (2X)	27.6	28	27	145.9	118	131	3.2	2	1
*ADI 555 (2X)	27.6	–	–	185.9	–	–	0.0	–	–
Super Crost 2890 (2X)	27.6	28	28	146.1	129	145	3.2	2	1
*Migro M-0301 (2X)	27.7	28	–	187.1	154	–	0.0	0	–
Hulting X9660 (3X)	28.3	–	–	155.1	–	–	0.0	–	–
*ADI 575 (3X)	28.4	–	–	192.9	–	–	2.2	–	–
*Migro M-0505 (2X)	28.4	–	–	182.4	–	–	0.7	–	–
Dennis DS37E (2X)	28.5	27	–	162.0	134	–	0.0	0	–
*Migro M-4501 (2X)	28.5	29	29	173.3	134	141	0.7	0	1
*Pride 7715 (2X)	28.6	31	30	201.8	151	159	0.7	0	0
*Hulting X9770 (3X)	28.7	28	28	177.4	136	139	7.6	4	3
Funk G-4449 (2X)	28.7	–	–	155.1	–	–	0.7	–	–
Funk G-4507 (2X)	28.9	–	–	171.9	–	–	3.0	–	–
*Northrup King PX65 (2X)	29.0	30	30	202.4	148	153	0.7	1	1
Super Crost 2890A (2X)	29.0	–	–	157.3	–	–	0.0	–	–
Acco UC3301A (2X)	29.1	–	–	159.1	–	–	1.5	–	–
*Blaney B805 (2X)	29.1	30	30	190.4	151	151	3.7	2	2
*Voris 2532 (2X)	29.1	30	30	185.6	154	163	2.5	2	1
*Wolverine W174 (2X)	29.2	–	–	179.2	–	–	0.0	–	–
*Golden Harvest H-2500 (2X)	29.4	31	32	184.1	154	163	1.5	1	1
Super Crost 4350 (2X)	29.7	29	–	152.2	144	–	2.2	3	–
Dennis DS47A (2X)	29.7	–	–	169.3	–	–	2.1	–	–
*Trojan TXS115A (2X)	30.2	–	–	188.9	–	–	3.7	–	–
Migro M-0501 (2X)	30.6	30	30	153.7	134	140	0.0	0	0
ADI 395 (2X)	31.3	–	–	152.1	–	–	2.2	–	–
Average	25.6	26	27	156.1	133	143	2.9	2	1
Range	20.2 to 31.3	20 to 31	20 to 32	91.1 to 202.4	97 to 154	107 to 163	0.0 to 13.4	0 to 6	0 to 5
Least significant difference	1.2	0.9	0.7	16.0	9	6			

*Significantly better than average yield in 1977.

	1977	1976	1975
Planted	May 10	May 15	May 19
Harvested	October 14	October 14	October 16
Soil Type	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
Previous Crop	Corn	Corn	Corn
Population	20,900	19,100	20,200
Rows	30"	30"	30"
Fertilizer	165-64-0	132-83-60	132-82-72
Soil Test: pH	7.1	7.0	6.8
p	234 (very high)	214 (very high)	233 (very high)
K	227 (high)	210 (high)	399 (very high)

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

Table 4. **SOUTHERN MICHIGAN** Zone 1
KALAMAZOO COUNTY TRIAL
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Michigan 333-3X (3X)	23.7	22	23	98.1	85	96	2.5	9	7
Michigan 3093 (3X)	24.5	22	–	103.4	84	–	0.0	12	–
Funk G-4141 (2X)	25.8	–	–	91.1	–	–	0.0	–	–
Funk G-4195 (3X)	26.7	24	–	95.7	83	–	0.0	7	–
Northrup King PX32 (2X)	26.8	26	27	107.6	88	103	0.0	5	3
Funk G-4252 (3X)	27.0	26	–	103.0	88	–	0.0	10	–
Michigan 3102 (2X)	27.0	25	–	110.7	94	–	0.0	4	–
Blaney B303A (2X)	27.3	25	–	88.9	78	–	0.0	9	–
Blaney B302 (2X)	27.5	–	–	86.2	–	–	0.0	–	–
Migro M-0105 (2X)	27.9	–	–	100.1	–	–	0.0	–	–
Migro M-0101 (2X)	28.2	25	25	84.9	76	91	14.8	19	12
*Golden Harvest H-2370 (2X)	28.2	–	–	130.7	–	–	0.7	–	–
Michigan 407-2X (2X)	28.3	26	26	126.8	99	114	1.3	9	7
Northrup King PX34 (2X)	28.5	–	–	119.8	–	–	0.0	–	–
*Funk G-4272 (3X)	28.6	26	–	136.5	111	–	0.0	6	–
Michigan 410-2X (2X)	28.6	26	27	118.4	91	103	1.6	12	8
DeKalb XL35 (2X)	28.8	–	–	119.6	–	–	0.0	–	–
Michigan 3953 (3X)	28.8	–	–	124.7	–	–	0.0	–	–
Michigan 4122 (2X)	28.9	27	27	122.0	102	115	0.0	7	5
Jacques JX122A (2X)	28.9	29	29	110.3	92	107	0.0	6	5
Pioneer 3591 (Sp.)	29.3	–	–	123.1	–	–	0.0	–	–
DeKalb XL16 (2X)	29.4	–	–	111.4	–	–	3.2	–	–
Super Crost S27 (2X)	29.6	27	29	113.2	93	101	0.0	3	2
Pioneer 3709 (Sp.)	29.6	28	–	120.2	97	–	0.0	1	–
Michigan 5443 (3X)	29.6	27	28	125.3	99	111	2.3	11	7
Pride 5525 (2X)	29.8	–	–	108.0	–	–	0.0	–	–
Funk G-4449 (2X)	30.1	–	–	122.2	–	–	0.0	–	–
Payco SX775 (2X)	30.1	–	–	117.0	–	–	0.0	–	–
Trojan TXS105A (2X)	30.1	–	–	127.3	–	–	0.7	–	–
Super Crost 2350 (2X)	30.1	28	–	107.6	87	–	0.0	3	–
Pioneer 3780 (2X)	30.2	28	29	120.6	101	111	3.6	10	8
Payco SX811 (3X)	30.2	–	–	113.4	–	–	1.7	–	–
*Funk G-4430 (2X)	30.2	–	–	144.8	–	–	0.0	–	–
Super Crost 2890 (2X)	30.3	29	30	111.9	90	106	0.0	1	1
Northrup King PX48 (2X)	30.4	–	–	118.8	–	–	0.0	–	–
Northrup King PX585 (3X)	30.4	–	–	119.5	–	–	0.0	–	–
Blaney B606 (2X)	30.4	30	31	114.9	93	106	0.0	2	1
*Michigan 5802 (2X)	30.4	28	29	136.8	108	117	0.0	3	2
Acco UC4201 (2X)	30.5	29	30	122.6	95	109	0.0	3	2
Northrup King PX50A (2X)	30.6	–	–	116.5	–	–	3.6	–	–
Golden Harvest H-2450 (2X)	30.6	–	–	117.2	–	–	1.4	–	–
Pioneer 3535 (2X)	30.6	30	31	114.1	98	101	0.8	4	3
Michigan 575-2X (2X)	30.6	29	29	109.0	87	101	0.0	3	2
*Cowbell 7440 (2X)	30.8	27	28	131.1	106	109	0.0	4	3
Trojan TXS108A (2X)	30.8	–	–	120.4	–	–	0.7	–	–
*Migro M-1130 (2X)	30.8	27	28	144.9	102	111	0.0	4	3
Blaney B606E (2X)	30.9	–	–	126.0	–	–	0.0	–	–
*Migro M-2018X (2X)	31.0	–	–	135.3	–	–	0.8	–	–
Asgrow RX53 (2X)	31.0	28	28	110.5	88	103	0.0	6	4
Funk G-4444 (2X)	31.1	28	29	119.1	96	105	0.8	11	8
*Amcorn 7480 (2X)	31.1	30	31	130.0	107	107	1.8	2	1
*Payco SX865 (2X)	31.5	–	–	136.0	–	–	2.3	–	–
Funk G-4408 (2X)	31.6	30	30	126.1	101	110	0.0	10	7
Acco UC3301A (2X)	31.8	–	–	107.4	–	–	1.5	–	–
*Migro M-2022X (2X)	32.1	–	–	134.9	–	–	2.2	–	–
*Asgrow RX2345 (2X)	32.1	30	–	130.5	94	–	0.0	5	–
Northrup King PX46 (2X)	32.2	–	–	122.2	–	–	0.0	–	–
Cardinal SX112 (2X)	32.3	–	–	106.4	–	–	1.5	–	–
Super Crost 2470 (2X)	32.3	32	–	102.8	79	–	0.0	2	–
Trojan T1010 (2X)	32.5	–	–	116.2	–	–	0.7	–	–
Migro M-0301 (2X)	32.5	33	–	105.7	85	–	2.2	12	–
Funk G-4507 (2X)	32.5	–	–	119.7	–	–	1.5	–	–
Funk G-4321A (2X)	32.8	29	–	109.6	91	–	0.7	7	–
Migro M-0501 (2X)	33.5	–	–	111.2	–	–	0.0	–	–
Amcorn 7300 (2X)	33.6	29	30	114.1	91	102	0.8	11	8
Trojan TXS113 (2X)	33.8	–	–	115.4	–	–	2.2	–	–
Northrup King PX65 (2X)	33.9	–	–	123.1	–	–	0.7	–	–
Jacques JX177 (2X)	34.3	32	32	102.6	90	99	0.0	2	1
Golden Harvest H-2600 (2X)	34.5	–	–	103.0	–	–	0.0	–	–
Average	30.2	28	29	116.9	94	106	0.8	7	5
Range	23.7 to 34.5	22 to 33	23 to 32	84.9 to 146.8	76 to 111	91 to 117	0.0 to 14.8	1 to 19	2 to 5
Least significant difference	1.4	0.9	0.7	12.2	7	5			

*Significantly better than average yield in 1977.

(Continued)

Table 4. (Continued)

	1977	1976	1975
Planted	May 10	May 22	May 19
Harvested	October 17	October 17	October 22
Soil Type	Fox sandy loam	Fox sandy loam	Fox sandy loam
Previous Crop	Corn	Clover sod	Corn
Population	20,800	20,100	20,400
Rows	30"	30"	30"
Fertilizer	112-53-15	112-88-24	108-30-30
Soil Test: pH	6.1	6.4	6.5
p	112 (very high)	54 (medium)	55 (medium)
K	227 (high)	223 (high)	267 (high)

Farm Cooperator: Richard Van Vranchen, Climax
County Extension Agent: Richard Bailey, Kalamazoo

Table 5. **SOUTHERN MICHIGAN** Zone 1
CASS COUNTY – IRRIGATED UPLAND SOIL
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Michigan 3093 (3X)	19.7	21	–	109.6	134	–	7.4	4	–
Michigan 333-3X (3X)	20.0	21	21	101.1	128	126	16.4	10	8
McCurdy 76-10 (2X)	20.8	–	–	96.0	–	–	15.3	–	–
Michigan 3102 (2X)	21.0	21	–	133.5	145	–	2.4	1	–
Asgrow RX40 (2X)	22.1	–	–	121.5	–	–	3.2	–	–
Migro M-0101 (2X)	22.5	23	–	138.4	147	–	5.2	3	–
Warwick SL501 (Sp.)	22.8	–	–	135.4	–	–	5.5	–	–
Migro M-0105 (2X)	23.0	–	–	116.2	–	–	15.4	–	–
P-A-G SX177 (2X)	23.4	–	–	135.8	–	–	1.5	–	–
Northrup King PX585 (3X)	23.6	–	–	148.9	–	–	6.8	–	–
Northrup King PX34 (2X)	23.6	–	–	132.9	–	–	2.5	–	–
Michigan 407-2X (2X)	23.7	24	24	145.7	164	167	3.3	2	3
Migro M-2018X (2X)	23.7	–	–	148.3	–	–	4.6	–	–
Michigan 410-2X (2X)	23.8	25	24	138.0	156	156	2.4	2	5
Voris X380 (2X)	23.9	–	–	104.0	–	–	16.1	–	–
Michigan 3953 (3X)	24.0	–	–	140.3	–	–	2.8	–	–
Dennis DS90 (2X)	24.0	–	–	130.5	–	–	6.7	–	–
Prairie Stream SX33 (2X)	24.1	–	–	141.7	–	–	0.8	–	–
Parker 30A (2X)	24.2	–	–	125.2	–	–	2.4	–	–
Voris 2372 (2X)	24.2	24	–	144.8	162	–	5.1	4	–
Gutwein 40 (2X)	24.2	25	25	152.4	172	166	3.4	2	2
Renk RK15 (2X)	24.3	–	–	151.6	–	–	1.5	–	–
Pioneer 3901 (2X)	24.4	–	–	124.0	–	–	0.8	–	–
Cowbell 7440 (2X)	24.4	–	–	151.2	–	–	2.4	–	–
P-A-G SX210 (2X)	24.4	–	–	134.2	–	–	8.3	–	–
P-A-G 534 (3X)	24.5	–	–	143.1	–	–	0.8	–	–
Asgrow RX53 (2X)	24.5	–	–	149.7	–	–	5.2	–	–
Funk G-4321A (2X)	24.5	26	–	153.0	160	–	0.0	0	–
Northrup King PX32 (2X)	24.5	–	–	131.8	–	–	7.0	–	–
Asgrow RX2345 (2X)	24.6	–	–	140.1	–	–	10.3	–	–
*Michigan 4122 (2X)	24.6	25	25	163.6	171	169	3.2	2	1
*Super Crost S27 (2X)	24.6	26	26	162.0	163	167	1.5	2	2
*Dennis DS6 (2X)	24.8	–	–	161.6	–	–	0.8	–	–
*Voris 2422 (2X)	24.8	–	–	169.3	–	–	9.4	–	–
Northrup King PX46 (2X)	24.8	–	–	151.5	–	–	1.7	–	–
Funk G-4430 (2X)	24.9	–	–	146.5	–	–	8.4	–	–
Pioneer 3780 (2X)	24.9	26	25	156.3	173	171	7.2	4	4
Gutwein 22 (2X)	24.9	–	–	155.1	–	–	3.2	–	–
Super Crost 2350 (2X)	25.0	26	–	156.4	164	–	6.7	4	–
Michigan 5443 (3X)	25.0	26	26	145.2	162	161	9.5	5	6
McCurdy MSX46 (2X)	25.0	26	–	150.9	160	–	1.6	1	–
Hulting X770 (2X)	25.0	–	–	155.9	–	–	2.4	–	–
Warwick W1101 (2X)	25.1	–	–	151.2	–	–	6.3	–	–
Pride 5525 (2X)	25.1	27	26	133.0	156	160	0.0	0	1
Funk G-4272 (3X)	25.1	25	–	149.5	156	–	5.3	3	–
Amcorn 7300 (2X)	25.2	26	25	129.6	152	148	19.0	10	10
*Migro M-2022X (2X)	25.2	–	–	164.1	–	–	5.6	–	–
Gutwein 44 (2X)	25.3	–	–	154.9	–	–	0.0	–	–
McCurdy MSX44A (2X)	25.3	26	–	158.4	163	–	7.9	4	–
Michigan 575-2X (2X)	25.3	28	27	159.4	164	166	5.3	3	3
*Asgrow RX58 (2X)	25.3	–	–	166.2	–	–	4.5	–	–
Gutwein 46 (2X)	25.4	27	26	141.3	168	167	2.0	1	1
Amcorn 7480 (2X)	25.4	26	26	140.8	159	149	5.7	3	2
Pride 4404 (2X)	25.4	–	–	137.4	–	–	4.5	–	–

(Continued)

TABLE 5. (Continued)

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Funk G-4408 (2X)	25.4	27	26	143.3	168	173	3.2	2	2
Dairyland DX1007 (2X)	25.4	–	–	153.5	–	–	3.2	–	–
Funk G-4444 (2X)	25.5	27	26	154.3	170	167	9.2	5	5
Renk RK44 (2X)	25.5	26	–	147.6	164	–	3.1	3	–
Cargill 838 (2X)	25.7	–	–	137.3	–	–	0.0	–	–
O's Gold SX1100 (2X)	25.7	27	26	148.2	158	153	0.0	0	2
DeKalb XL42 (2X)	25.7	–	–	145.2	–	–	0.0	–	–
Super Crost 2470 (2X)	25.7	27	–	140.3	155	–	5.2	3	–
P-A-G SX69 (2X)	25.9	–	–	145.9	–	–	2.4	–	–
*U.S. Steel 0555A (3X)	26.1	–	–	161.8	–	–	0.9	–	–
Acco UC3301A (2X)	26.1	–	–	151.0	–	–	1.6	–	–
Renk RK66 (2X)	26.3	27	–	142.7	156	–	0.0	0	–
Pioneer 3709 (MSX)	26.4	27	–	147.7	161	–	4.1	2	–
*McCurdy MSX60 (2X)	26.4	29	–	168.8	179	–	2.4	2	–
*Michigan 5802 (2X)	26.4	27	26	166.2	180	180	2.7	2	2
*Pioneer 3535 (2X)	26.4	29	28	179.2	186	173	0.7	0	1
Pioneer 3518 (MSX)	26.6	–	–	142.2	–	–	0.8	–	–
Blaney B703 (2X)	26.6	–	–	143.7	–	–	5.6	–	–
U.S. Steel 0011 (2X)	26.6	–	–	153.1	–	–	10.5	–	–
*Migro M-0301 (2X)	26.6	28	–	171.4	188	–	0.0	0	–
*Bayless SX434M (2X)	26.6	28	27	162.1	172	173	5.2	3	4
Blaney B606 (2X)	26.7	27	26	140.8	166	169	2.7	1	5
U.S. Steel 0010 (2X)	26.7	–	–	146.3	–	–	0.0	–	–
Northrup King PX48 (2X)	26.8	–	–	158.5	–	–	9.5	–	–
Pioneer 3591 (Sp.)	26.8	–	–	150.8	–	–	0.0	–	–
Cargill 890 (2X)	27.2	29	–	141.8	171	–	0.0	0	–
P-A-G SX397 (2X)	27.3	–	–	159.6	–	–	5.9	–	–
Funk G-4507 (2X)	27.3	–	–	156.4	–	–	1.5	–	–
Voris 2532 (2X)	27.4	30	30	153.5	181	180	0.0	0	2
Hancock X152 (2X)	27.6	–	–	148.5	–	–	2.7	–	–
*Gutwein 62 (2X)	27.6	30	30	166.7	187	181	8.0	4	4
*Blaney B805 (2X)	27.7	30	–	179.3	195	–	0.0	0	–
Dennis DS47A (2X)	27.7	–	–	144.1	–	–	1.6	–	–
DeKalb XL64A (Sp.)	27.7	30	–	139.8	170	–	0.8	0	–
*Dennis DS37E (2X)	27.8	29	–	160.2	176	–	1.7	2	–
Super Crost 4242 (2X)	27.8	29	28	141.0	155	160	0.0	1	3
*Golden Harvest H-2500 (2X)	28.0	31	30	174.4	194	185	0.0	0	3
Pioneer 3517 (MSX)	28.0	–	–	140.3	–	–	0.8	–	–
Funk G-4449 (2X)	28.0	–	–	144.6	–	–	2.4	–	–
Northrup King PX65 (2X)	28.1	–	–	148.3	–	–	0.8	–	–
Golden Harvest H-2450 (2X)	28.2	28	27	140.2	150	157	5.2	3	7
*O's Gold SX5500A (2X)	28.4	31	–	178.2	185	–	2.3	1	–
Parker 60 (2X)	28.6	30	–	140.6	174	–	2.6	1	–
*Hulting X880 (2X)	28.7	–	–	175.5	–	–	0.0	–	–
Prairie Stream SX44 (2X)	28.8	–	–	148.6	–	–	3.2	–	–
Acco UC4201 (2X)	28.9	29	–	139.0	156	–	5.4	3	–
Migro M-0505 (2X)	30.1	31	–	133.5	172	–	0.0	0	–
Trojan TXS113 (2X)	31.4	32	31	133.2	172	177	0.0	0	1
Golden Harvest H-2600 (2X)	31.8	–	–	128.3	–	–	1.0	–	–
Average	25.6	27	26	146.8	166	166	4.0	2	4
Range	19.7 to 31.8	21 to 32	21 to 31	96.0 to 179.3	128 to 195	126 to 185	0.0 to 18.9	0 to 10	1 to 10
Least significant difference	1.3	0.9	0.7	13.4	8	6			

Significantly better than average yield in 1977.

	1977	1976	1975
Planted	May 9	May 10	May 13
Harvested	October 19	October 19	October 21
Soil Type	Kalamazoo sandy loam	Kalamazoo sandy loam	Kalamazoo sandy loam
Previous Crop	Corn	Corn	Soybeans
Population	22,500	23,500	22,900
Rows	28"	28"	28"
Fertilizer	315-54-138	244-114-18, manure	118-54-138
Irrigation	8 inches	7 inches	6 inches
Soil Test: pH	6.8	6.8	6.8
P	104 (very high)	120 (very high)	87 (high)
K	261 (high)	256 (high)	328 (very high)

Farm Cooperator: Dave Cripe, Cassopolis
County Extension Director: G. Wayne Hothem, Cassopolis

Table 6. SOUTHERN MICHIGAN Zone 1
CASS COUNTY TRIAL – MUCK SOIL
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Michigan 333-3X (3X)	22.2	27	25	98.1	102	106	2.5	2	5
Michigan 3953 (3X)	23.0	–	–	120.6	–	–	2.9	–	–
Michigan 3102 (2X)	23.4	27	25	116.3	116	119	2.2	1	3
Funk G-4195 (2X)	24.0	–	–	98.4	–	–	0.0	–	–
Michigan 3093 (3X)	24.3	28	26	96.9	108	111	0.7	3	4
Funk G-4141 (2X)	24.6	–	–	117.8	–	–	1.5	–	–
Northrup King PX32 (2X)	25.8	–	–	127.0	–	–	2.2	–	–
Todd 330 (3X)	26.1	–	–	95.4	–	–	1.5	–	–
Pioneer 3965 (3X)	26.1	–	–	107.3	–	–	2.2	–	–
McCurdy 76-10 (2X)	26.6	–	–	91.6	–	–	10.8	–	–
Pioneer 3958 (2X)	26.8	–	–	94.4	–	–	0.0	–	–
Pioneer 3901 (2X)	26.9	–	–	127.0	–	–	0.7	–	–
Golden Harvest EX217 (2X)	26.9	–	–	90.2	–	–	9.1	–	–
Garno S-82 (2X)	27.1	–	–	93.8	–	–	2.1	–	–
DeKalb XL16 (2X)	27.4	–	–	110.2	–	–	7.3	–	–
Funk G-4272 (3X)	27.4	31	–	119.7	111	–	2.2	1	–
Michigan 410 (2X)	27.4	31	28	114.9	118	121	2.3	2	5
Blaney B401 (2X)	27.5	30	28	118.5	115	120	0.7	2	5
*Pioneer 3780 (2X)	27.7	31	29	146.9	144	138	5.5	4	6
Migro M-0105 (2X)	27.7	–	–	121.2	–	–	4.4	–	–
Michigan 4122 (2X)	27.7	31	28	138.8	133	136	4.8	3	3
Funk G-4288 (2X)	27.7	31	29	131.0	126	128	0.7	2	7
*Migro M-2018X (2X)	27.8	–	–	139.5	–	–	1.4	–	–
Cargill 863 (2X)	27.8	–	–	129.9	–	–	2.8	–	–
Super Crost 1692 (2X)	27.9	30	27	91.3	98	95	8.4	7	6
Michigan 407-2X (2X)	27.9	30	28	134.0	133	135	2.3	4	6
Cargill 838 (2X)	27.9	–	–	108.8	–	–	1.5	–	–
Golden Harvest H-2340 (2X)	27.9	29	–	112.8	104	–	4.9	4	–
Blaney EX7305 (2X)	27.9	31	28	127.3	120	121	9.4	5	6
Voris 2372 (2X)	28.1	–	–	133.7	–	–	4.8	–	–
Parker 30A (2X)	28.1	–	–	138.4	–	–	0.7	–	–
Todd MX33 (2X)	28.2	–	–	110.5	–	–	9.2	–	–
Michigan 5443 (3X)	28.2	31	29	128.5	128	130	3.8	5	10
Migro M-3020 (4X)	28.2	32	30	130.1	125	130	0.0	3	2
Migro M-0101 (2X)	28.2	30	27	129.5	121	122	1.4	1	2
Payco SX680 (2X)	28.3	31	–	101.1	105	–	4.2	5	–
*Funk G-4252 (3X)	28.4	–	–	140.3	–	–	3.3	–	–
Blaney EX7606 (2X)	28.5	31	–	131.7	130	–	0.0	0	–
Blaney B606 (2X)	28.5	32	29	132.7	116	123	8.6	5	6
Anderson SSE (2X)	28.6	–	–	136.0	–	–	2.0	–	–
Acco UC3002 (2X)	28.7	–	–	133.4	–	–	2.1	–	–
Northrup King PX585 (3X)	28.8	–	–	137.5	–	–	2.2	–	–
Northrup King PX34 (2X)	28.9	–	–	114.2	–	–	2.1	–	–
Garno S-89 (2X)	28.9	–	–	114.8	–	–	7.7	–	–
Bayless SX434M (2X)	28.9	32	–	131.9	129	–	2.1	1	–
*Pride 5525 (2X)	28.9	31	29	149.4	138	139	2.9	2	4
Funk G-4321A (2X)	29.0	32	–	125.1	126	–	0.0	2	–
*Michigan 5802 (2X)	29.0	32	30	145.5	136	144	5.1	3	2
*Funk G-4408 (2X)	29.1	32	29	146.3	135	137	3.4	5	5
Golden Harvest H-2450 (2X)	29.1	32	28	117.6	130	135	2.8	4	6
Payco SX865 (2X)	29.1	–	–	131.6	–	–	3.8	–	–
*Migro M-2022X (2X)	29.1	–	–	142.4	–	–	4.3	–	–
*Super Crost S27 (2X)	29.2	32	30	154.2	147	138	5.0	4	8
*Funk G-4444 (2X)	29.2	32	30	139.6	138	132	5.6	4	9
Super Crost 2890 (2X)	29.2	32	29	133.7	121	121	0.0	1	3
Pride 4404 (2X)	29.2	–	–	117.3	–	–	3.0	–	–
Golden Harvest H-2370 (2X)	29.3	32	–	114.5	108	–	6.3	4	–
Super Crost 2350 (2X)	29.4	31	–	132.8	137	–	1.5	3	–
Super Crost 2470 (2X)	29.5	32	–	129.9	117	–	0.7	1	–
*Northrup King PX48 (2X)	29.6	–	–	141.5	–	–	2.8	–	–
Payco SX775 (2X)	29.7	–	–	130.3	–	–	3.7	–	–
Pioneer 3709 (2X)	29.7	33	–	123.0	112	–	1.5	1	–
Migro M-1130 (2X)	29.8	32	30	127.0	130	138	0.7	0	2
Migro M-0301 (2X)	29.9	32	–	114.3	126	–	1.4	2	–
*McCurdy MSX44A (2X)	30.0	–	–	158.2	–	–	3.4	–	–
*Acco UC3301 (2X)	30.1	32	–	145.2	145	–	6.5	4	–
*Cargill 890 (2X)	30.1	–	–	143.6	–	–	0.7	–	–
*Pioneer 3535 (2X)	30.1	33	30	142.3	130	138	0.7	0	1
O's Gold SX1100 (2X)	30.2	32	–	124.8	135	–	2.1	1	–
Michigan 575-2X (2X)	30.2	32	30	136.1	139	141	0.8	0	2
Todd M59 (2X)	30.3	–	–	127.3	–	–	0.7	–	–
Trojan TXS102 (2X)	30.3	32	31	138.9	132	139	8.1	5	5
Todd M30 (2X)	30.6	–	–	126.4	–	–	2.8	–	–
Anderson AX-4 (Sp.)	30.7	–	–	132.6	–	–	0.7	–	–
*Anderson AX-5 (Sp.)	30.7	–	–	141.1	–	–	6.4	–	–

(Continued)

Table 6. (Continued)

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
McCurdy MSX46 (2X)	30.9	–	–	118.9	–	–	1.4	–	–
Pioneer 3591 (Sp.)	31.0	–	–	126.5	–	–	0.8	–	–
Anderson SSM (2X)	31.8	–	–	117.5	–	–	0.0	–	–
Northrup King PX46 (2X)	32.0	–	–	130.9	–	–	1.5	–	–
Garno S-100 (2X)	32.8	–	–	131.5	–	–	2.3	–	–
*Northrup King PX65 (2X)	32.9	–	–	148.6	–	–	0.0	–	–
*Migro M-0505 (2X)	33.0	34	–	156.5	145	–	0.7	2	–
Average	28.2	31	29	126.3	125	129	2.9	3	5
Range	22.2 to 33.0	27 to 34	25 to 31	90.2 to 158.2	102 to 145	106 to 144	0.0 to 10.8	0 to 5	1 to 10
Least significant difference	1.2	0.9	0.7	13.1	7	5			

Significantly better than average yield in 1977.

	1977	1976	1975
Planted	May 17	May 22	May 18
Harvested	October 19	October 20	October 21
Soil Type	Carlisle muck	Carlisle muck	Carlisle muck
Previous Crop	Corn	Corn	Corn
Population	21,300	20,700	20,800
Rows	30"	30"	30"
Fertilizer	88-32-16	93-51-56	88-32-76
Soil Test: pH	5.4	5.6	5.5
p	152 (very high)	107 (very high)	80 (high)
K	645 (very high)	533 (very high)	510 (very high)

Farm Cooperators: Oliver, Russell and Roger Anderson, Cassopolis
County Extension Director: G. Wayne Hothem, Cassopolis

Table 7. SOUTH CENTRAL MICHIGAN Zone 2
KENT COUNTY TRIAL
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Michigan 280 (4X)	20.6	21	21	94.2	76	91	5.7	12	10
Voris 2352 (2X)	21.3	–	–	100.2	–	–	4.4	–	–
Funk G-4195 (3X)	22.0	23	23	92.7	78	98	7.1	17	12
Michigan 333-3X (3X)	22.0	22	22	107.9	89	102	0.0	1	2
Blaney B302 (2X)	22.3	23	–	114.1	91	–	0.0	2	–
Michigan 3093 (3X)	22.3	22	22	108.2	94	106	3.0	5	4
Pioneer 3901 (2X)	22.4	–	–	123.7	–	–	0.0	–	–
Todd 330 (3X)	22.5	–	–	95.1	–	–	2.8	–	–
Super Crost 1692 (2X)	22.5	23	23	91.1	83	98	6.3	9	6
P-A-G SX177 (2X)	22.5	–	–	96.1	–	–	0.7	–	–
Super Crost S18 (2X)	22.6	–	–	98.4	–	–	9.2	–	–
Renk RK15 (2X)	22.9	–	–	96.9	–	–	4.0	–	–
Todd M16 (2X)	23.0	–	–	95.4	–	–	2.0	–	–
Stewart 301 (Sp.)	23.0	24	–	113.7	92	–	0.0	3	–
Blaney B303A (2X)	23.0	–	–	118.2	–	–	0.7	–	–
Funk G-4141 (2X)	23.0	23	23	122.0	97	109	1.4	6	4
Michigan 3102 (2X)	23.1	23	23	118.5	92	107	0.0	4	3
Migro M-0105 (2X)	23.1	–	–	114.2	–	–	1.5	–	–
DeKalb XL12 (2X)	23.2	25	25	105.2	83	90	0.7	14	10
Northrup King PX20 (2X)	23.2	–	–	97.5	–	–	7.1	–	–
Michigan 3953 (3X)	23.3	–	–	116.2	–	–	2.2	–	–
Super Crost 1901 (2X)	23.4	24	24	119.5	102	114	1.4	14	10
Migro M-0101 (2X)	23.4	24	24	114.5	85	96	2.9	8	6
Anderson SSE (2X)	23.4	–	–	102.4	–	–	0.0	–	–
Dairyland DX1002 (2X)	23.5	24	–	102.0	81	–	6.6	7	–
Blaney EX7305 (2X)	23.5	24	–	107.5	95	–	0.0	6	–
Michigan 407-2X (2X)	23.7	25	25	125.6	103	115	2.8	8	6
Gutwein 112 (3X)	23.9	–	–	113.9	–	–	2.1	–	–
*Dairyland DX1005 (2X)	24.0	–	–	133.6	–	–	0.0	–	–
Michigan 410-2X (2X)	24.1	25	25	118.3	95	106	3.6	7	6
Northrup King PX34 (2X)	24.2	–	–	107.0	–	–	0.0	–	–
DeKalb XL35 (Sp.)	24.2	–	–	118.3	–	–	0.0	–	–
Acco U334 (3X)	24.2	25	–	118.0	102	–	0.7	8	–
Northrup King PX585 (3X)	24.2	–	–	116.3	–	–	0.0	–	–
Amcorn 4010 (2X)	24.3	–	–	104.6	–	–	0.0	–	–

(Continued)

TABLE 7. (Continued)

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Funk G-4252 (3X)	24.3	25	25	115.3	93	96	2.2	9	7
*Funk G-4272 (3X)	24.4	26	–	136.2	105	–	0.0	3	–
Voris 2372 (2X)	24.4	26	–	132.6	109	–	0.7	8	–
*Northrup King PX32 (2X)	24.4	–	–	138.8	–	–	0.7	–	–
*Michigan 4122 (2X)	24.4	–	–	145.7	–	–	1.5	–	–
*Cargill 863 (2X)	24.6	26	–	139.2	112	–	0.0	10	–
*Blaney B606E (2X)	24.6	–	–	133.2	–	–	1.4	–	–
DeKalb XL25 (2X)	24.7	–	–	130.5	–	–	0.7	–	–
Wolverine W169 (2X)	24.7	–	–	118.3	–	–	0.0	–	–
*Super Crost 2350 (2X)	24.8	25	–	145.2	110	–	0.0	11	–
Renk RK11AA (2X)	24.9	28	27	119.8	90	108	0.0	0	1
Funk G-4321A (2X)	24.9	27	–	129.5	105	–	0.7	5	–
Michigan 5443 (3X)	24.9	26	26	125.9	99	109	1.8	7	5
Northrup King PX 26 (2X)	24.9	–	–	109.2	–	–	0.0	–	–
Todd M59 (2X)	25.0	–	–	126.5	–	–	0.7	–	–
Todd M50 (2X)	25.0	–	–	108.7	–	–	0.7	–	–
*Migro M-2022X (2X)	25.0	–	–	133.8	–	–	0.0	–	–
Wolverine W166 (2X)	25.0	27	–	116.0	94	–	2.8	5	–
*Funk G-4408 (2X)	25.1	–	–	137.1	–	–	0.0	–	–
*O's Gold SX1100 (2X)	25.1	–	–	133.3	–	–	1.4	–	–
*Amcorn 7480 (2X)	25.2	27	27	139.1	108	107	0.0	0	1
*Gutwein 22 (2X)	25.2	–	–	141.0	–	–	1.5	–	–
Amcorn 7300 (2X)	25.2	26	27	127.1	105	113	8.4	7	5
*Pioneer 3535 (2X)	25.2	28	28	141.3	103	110	0.0	2	2
Pioneer 3709 (MSX)	25.3	27	–	127.1	105	–	0.7	6	–
Michigan 575-2X (2X)	25.3	27	27	124.1	100	109	2.2	5	4
Super Crost 2890 (2X)	25.3	27	27	131.1	106	108	0.0	0	1
Acco UC3002 (2X)	25.4	–	–	115.6	–	–	1.5	–	–
*Amcorn 4100 (2X)	25.4	26	26	134.5	103	104	2.2	13	8
Voris X380 (2X)	25.5	–	–	102.7	–	–	9.3	–	–
Jacques JX122A (2X)	25.6	–	–	117.4	–	–	0.0	–	–
Anderson AX-4 (Sp.)	25.6	–	–	98.5	–	–	0.0	–	–
Migro M-2018X (2X)	25.6	–	–	122.6	–	–	0.7	–	–
*DeKalb XL42 (2X)	25.6	–	–	138.9	–	–	0.0	–	–
Gutwein 23 (2X)	25.7	27	28	113.2	99	111	7.8	16	11
*Michigan 5802 (2X)	25.7	27	27	138.5	111	122	3.3	3	2
Northrup King PX46 (2X)	25.7	–	–	123.0	–	–	5.1	–	–
Super Crost S27 (2X)	25.8	27	27	122.5	99	109	5.2	11	7
*Pioneer 3780 (2X)	25.9	27	27	142.7	108	118	0.0	7	5
Super Crost 2470 (2X)	25.9	27	–	127.0	102	–	0.0	1	–
*Pioneer 3591 (Sp.)	26.0	–	–	152.3	–	–	0.7	–	–
Cowbell 7440 (2X)	26.0	27	27	111.9	87	100	7.5	20	14
*Trojan TXS102 (2X)	26.1	27	28	133.4	105	112	3.1	6	4
Northrup King PX48 (2X)	26.3	–	–	120.4	–	–	5.8	–	–
Anderson AX-5 (Sp.)	26.4	–	–	108.4	–	–	0.7	–	–
Migro M-0301 (2X)	26.4	29	–	131.6	103	–	0.0	11	–
*Funk G-4444 (2X)	26.5	27	27	135.4	110	114	1.5	9	6
P-A-G 220 (2X)	26.9	–	–	113.0	–	–	0.0	–	–
Funk G-4449 (2X)	26.9	–	–	120.4	–	–	0.7	–	–
Funk G-4507 (2X)	27.6	–	–	124.7	–	–	0.0	–	–
Gutwein 46B (2X)	28.0	–	–	105.9	–	–	0.0	–	–
Migro M-0505 (2X)	28.1	31	–	125.9	99	–	1.5	1	–
Average	24.6	26	25	120.0	98	106	1.9	7	6
Range	20.6 to 28.1	21 to 31	21 to 28	91.1 to 152.9	76 to 112	90 to 122	0.0 to 9.2	0 to 20	1 to 14
Least significant difference	1.3	0.9	0.6	13.2	7	5			

*Significantly better than average yield in 1977.

	1977	1976	1975
Planted	May 3	May 12	May 10
Harvested	October 20	October 21	October 22
Soil Type	Belville loam	Belville loam	Belville loam
Previous Crop	Corn	Wheat	Corn
Population	22,100	20,000	21,300
Rows	30"	30"	30"
Fertilizer	112-57-60, manure	127-69-60, manure	125-64-60
Soil Test: pH	6.0	6.7	7.3
P	86 (high)	88 (high)	41 (medium)
K	258 (high)	278 (high)	257 (high)

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

Table 8. **SOUTH CENTRAL MICHIGAN** Zone 2
OTTAWA AND MUSKEGON COUNTIES
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Michigan 280 (4X)	21.5	22	22	106.5	83	88	0.0	3	2
Funk G-4195 (3X)	23.1	26	25	109.2	90	96	3.4	2	2
Super Crost 1692 (2X)	23.2	25	–	106.4	94	–	0.0	0	–
Michigan 3093 (3X)	23.6	24	23	106.1	86	99	3.1	4	3
Michigan 333-3X (3X)	23.7	25	24	112.2	89	99	0.0	0	0
Blaney B303A (2X)	24.3	28	–	119.0	95	–	3.6	2	–
Jacques JX92 (2X)	24.5	–	–	101.3	–	–	0.0	–	–
Migro M-0101 (2X)	24.9	27	25	135.3	100	108	0.0	0	0
Michigan 3102 (2X)	25.0	25	24	133.1	102	111	0.0	0	0
Super Crost S18 (2X)	25.2	–	–	123.7	–	–	6.0	–	–
DeKalb XL12 (2X)	25.2	–	–	112.5	–	–	0.0	–	–
McCurdy 76-14 (2X)	25.3	–	–	135.8	–	–	4.4	–	–
Funk G-4141 (2X)	25.3	27	26	125.8	93	98	0.0	0	0
Pioneer 3901 (2X)	25.3	–	–	130.2	–	–	1.5	–	–
DeKalb XL25 (2X)	25.4	–	–	127.6	–	–	0.8	–	–
Migro M-0105 (2X)	25.4	–	–	116.9	–	–	0.0	–	–
Amcorn 4010 (2X)	25.4	–	–	107.2	–	–	0.0	–	–
Michigan 3953 (3X)	25.5	–	–	132.2	–	–	2.9	–	–
Jacques JX52 (2X)	25.6	–	–	108.3	–	–	0.0	–	–
Pride 3315 (2X)	25.6	–	–	127.3	–	–	0.0	–	–
Funk G-4252 (3X)	25.7	27	26	125.4	99	109	0.0	0	1
Golden Harvest H-2370 (2X)	26.0	–	–	114.0	–	–	0.0	–	–
Stewart 310 (Sp.)	26.2	29	–	114.7	87	–	0.0	1	–
U.S. Steel 0010 (2X)	26.9	–	–	132.1	–	–	1.4	–	–
Funk G-4272 (3X)	26.9	30	–	124.4	101	–	0.0	0	–
Michigan 4122 (2X)	26.9	28	28	136.2	107	118	0.0	1	0
Blaney EX7305 (2X)	27.2	30	29	118.3	102	115	0.0	0	1
Michigan 407-2X (2X)	27.2	28	27	138.2	107	114	1.1	1	1
Michigan 410-2X (2X)	27.3	29	28	123.1	92	99	0.0	0	0
Golden Harvest H-2340 (2X)	27.5	–	–	105.8	–	–	0.0	–	–
Amcorn 4100 (2X)	27.5	29	29	115.5	86	91	1.5	1	1
Michigan 5443 (3X)	27.6	30	29	131.4	102	113	0.0	0	1
*Pioneer 3780 (2X)	27.6	30	30	142.5	109	116	0.0	0	0
Pioneer 3591 (Sp.)	27.7	–	–	129.5	–	–	0.0	–	–
*Pioneer 3535 (2X)	28.1	31	32	148.9	113	110	0.0	0	0
Golden Harvest H-2450 (2X)	28.4	–	–	134.4	–	–	0.0	–	–
Cowbell 7440 (2X)	28.5	–	–	133.1	–	–	0.0	–	–
Trojan TXS105A (2X)	28.5	–	–	136.1	–	–	0.0	–	–
*Blaney B506 (2X)	28.5	–	–	143.3	–	–	0.0	–	–
Pride 4404 (2X)	28.6	–	–	132.8	–	–	0.7	–	–
Funk G-4321A (2X)	28.7	32	–	140.5	109	–	0.0	0	–
*Super Crost S27 (2X)	29.0	31	30	141.6	114	117	0.0	0	0
*Migro M-2022X (2X)	29.1	–	–	145.9	–	–	0.0	–	–
Amcorn 7300 (2X)	29.1	31	30	123.2	93	108	4.5	2	2
Super Crost 2350 (2X)	29.3	31	–	139.2	109	–	0.0	0	–
Michigan 5802 (2X)	29.4	31	31	140.7	110	116	0.0	0	0
Super Crost 2470 (2X)	29.4	32	–	128.7	97	–	0.0	0	–
Amcorn 7480 (2X)	29.4	–	–	133.3	–	–	0.0	–	–
*Migro M-2018X (2X)	29.6	–	–	143.7	–	–	0.0	–	–
Michigan 575-2X	29.6	32	31	135.0	104	111	0.0	0	0
*Trojan TXS108A (2X)	29.6	–	–	145.5	–	–	0.7	–	–
McCurdy MSX44A (2X)	29.8	32	–	122.8	93	–	0.0	0	–
*Funk G-4444 (2X)	29.8	32	31	141.5	104	114	0.0	0	0
*McCurdy MSX46 (2X)	30.0	32	–	145.6	111	–	0.0	0	–
Acco UC3002 (2X)	30.0	–	–	139.0	–	–	0.0	–	–
*U.S. Steel 0011 (2X)	30.0	–	–	146.1	–	–	0.7	–	–
DeKalb XL42 (2X)	30.3	–	–	128.3	–	–	0.0	–	–
*Funk G-4408 (2X)	30.6	–	–	148.0	–	–	0.8	–	–
Blaney B606 (2X)	30.7	33	33	124.2	101	112	0.7	0	0
McCurdy MSX42 (2X)	31.2	32	–	111.9	90	–	0.0	0	–
*Migro M-0310 (2X)	31.3	33	–	144.5	107	–	0.0	0	–
Super Crost 2890 (2X)	31.7	33	32	127.5	105	118	0.0	0	0
*Migro M-0505 (2X)	32.8	34	–	153.2	115	–	0.0	0	–
Average	27.5	30	28	129.0	100	107	0.6	0.4	0.6
Range	21.5 to 32.8	22 to 34	22 to 33	101.3 to 154.0	83 to 115	88 to 118	0.0 to 6.0	0 to 4	0 to 3
Least significant difference	1.3	1.0	0.7	12.3	7	5			

*Significantly better than average yield in 1977.

(Continued)

TABLE 8. (Continued)

	1977	1976	1975
Planted	May 11	May 24	May 17
Harvested	October 21	October 22	October 24
Soil Type	Gladwin sandy loam and Iosco loamy sand	Nester loam	Nester loam
Previous Crop	Corn	Corn	Corn
Population	19,900	20,200	20,000
Rows	30"	30"	30"
Fertilizer	106-24-24	115-69-90	116-63-83
Soil Test: pH	5.4	6.9	6.7
P	117 (very high)	23 (low)	74 (high)
K	133 (low)	126 (low)	80 (low)

Farm Cooperators: Gerald Geurink, Allendale (1977); Robert Bonthuis, Ravenna (1976, 1975)

County Extension Directors: Laroy Stebbins, Grand Haven (1977); Harold Ferris, Muskegon (1976, 1975)

Table 9. **SOUTH CENTRAL MICHIGAN** Zone 2
INGHAM COUNTY TRIAL – GRAIN
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Michigan 3093 (3X)	20.0	23	23	113.4	104	115	0.8	1	1
Michigan 280 (4X)	20.2	22	23	100.5	89	96	3.1	4	3
Michigan 3102 (2X)	21.1	24	24	125.6	105	118	0.0	0	0
Pioneer 3901 (2X)	21.4	–	–	131.7	–	–	2.9	–	–
Michigan 333-3X (3X)	21.4	23	23	110.9	101	110	2.8	3	2
Michigan 3953 (3X)	21.5	–	–	134.8	–	–	3.0	–	–
Voris 2352 (2X)	21.9	–	–	111.5	–	–	2.3	–	–
Pride 2264 (2X)	21.9	–	–	119.8	–	–	1.6	–	–
Funk G-4141 (2X)	21.9	23	25	129.5	99	113	1.4	1	0
Super Crost 1692 (2X)	21.9	24	25	104.1	86	92	5.0	3	3
Asgrow RX40 (2X)	22.1	–	–	100.7	–	–	1.5	–	–
Golden Harvest H-2340 (2X)	22.2	–	–	101.8	–	–	3.0	–	–
Pioneer 3965 (3X)	22.2	–	–	107.3	–	–	1.6	–	–
Super Crost S18 (2X)	22.2	–	–	108.6	–	–	3.7	–	–
Golden Harvest EXP217 (2X)	22.3	–	–	112.9	–	–	4.9	–	–
Blaney B303A (2X)	22.3	–	–	111.5	–	–	6.5	–	–
Funk G-4195 (3X)	22.3	25	–	96.4	91	–	0.9	1	–
Warwick TX27 (3X)	22.3	24	24	94.9	86	97	4.5	3	2
Dennis DS90 (2X)	22.5	–	–	94.9	–	–	2.9	–	–
Renk RW2-WK (2X)	22.5	–	–	132.4	–	–	7.4	–	–
P-A-G SX177 (2X)	22.5	24	25	117.6	96	112	0.0	0	0
Blaney B506 (2X)	22.8	–	–	128.5	–	–	0.0	–	–
Funk G-4252 (3X)	22.8	25	–	107.7	102	–	4.3	3	–
Golden Harvest H-2370 (2X)	22.8	–	–	115.3	–	–	1.5	–	–
Migro M-0105 (2X)	22.9	–	–	121.8	–	–	3.1	–	–
Stewart 310 (Sp.)	22.9	25	–	120.3	107	–	0.8	1	–
Voris 2372 (2X)	23.0	26	–	134.3	128	–	3.9	2	–
Amcorn 4100 (2X)	23.0	25	27	130.3	120	125	3.6	2	1
Funk G-4321A (2X)	23.1	27	–	138.8	123	–	1.4	1	–
Warwick W966 (Sp.)	23.1	–	–	109.1	–	–	2.5	–	–
Gutwein 112 (3X)	23.2	–	–	119.1	–	–	1.5	–	–
Michigan 410-2X (2X)	23.2	25	26	132.2	116	131	9.1	6	4
Northrup King PX32 (2X)	23.3	–	–	142.2	–	–	2.3	–	–
Amcorn 4010 (2X)	23.3	–	–	112.7	–	–	0.0	–	–
Pride 4404 (2X)	23.3	–	–	140.8	–	–	0.8	–	–
Michigan 407-2X (2X)	23.3	25	26	140.6	125	138	3.6	2	2
Wolverine W155 (2X)	23.4	–	–	125.0	–	–	0.8	–	–
Renk RK16 (2X)	23.5	25	26	107.9	109	117	4.6	3	2
DeKalb XL12 (2X)	23.5	–	–	114.8	–	–	0.8	–	–
Blancy B605-WX (2X)	23.5	27	–	144.7	127	–	5.1	3	–
Michigan 4122 (2X)	23.6	25	27	143.5	130	140	0.0	0	0
*Funk G-4408 (2X)	23.6	–	–	151.8	–	–	0.0	–	–
*Funk G-4444 (2X)	23.6	27	28	154.8	127	138	0.0	0	0
*Pride 5525 (2X)	23.6	27	29	147.4	128	142	0.7	0	0
Northrup King PX26 (2X)	23.7	–	–	136.2	–	–	4.4	–	–
DeKalb XL16 (2X)	23.7	–	–	128.3	–	–	0.7	–	–
Funk G-4272 (3X)	23.7	26	–	134.2	118	–	1.5	1	–
Garno S-82 (2X)	23.7	26	–	132.0	127	–	3.9	3	–
Cargill 838 (2X)	23.7	–	–	118.4	–	–	5.9	–	–
Garno S-89 (2X)	23.8	–	–	136.1	–	–	2.3	–	–
DeKalb XL25 (2X)	23.9	–	–	130.9	–	–	0.0	–	–
Northrup King PX34 (2X)	23.9	–	–	123.5	–	–	2.9	–	–
Michigan 5443 (3X)	23.9	26	28	132.2	120	133	3.3	3	2
*Renk RK15 (2X)	23.9	–	–	157.0	–	–	2.2	–	–

(Continued)

TABLE 9. (Continued)

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
*Northrup King PX585 (3X)	23.9	–	–	155.3	–	–	1.5	–	–
*Michigan 5802 (2X)	23.9	27	29	152.0	135	145	1.6	1	1
*Golden Harvest H-2450 (2X)	23.9	26	28	146.6	132	144	0.0	0	0
Trojan TXS105A (2X)	24.0	–	–	140.6	–	–	3.7	–	–
Wolverine W169 (2X)	24.0	–	–	134.1	–	–	0.8	–	–
Super Crost 2350 (2X)	24.0	27	–	140.3	129	–	0.8	0	–
P-A-G SX210 (2X)	24.1	27	28	138.7	115	131	12.5	7	5
Acco U334 (3X)	24.2	26	–	138.5	120	–	5.1	3	–
Trojan TXS102 (2X)	24.2	28	29	137.9	119	127	6.7	3	2
Cardinal SX112 (2X)	24.3	–	–	137.2	–	–	0.8	–	–
Cargill 863 (2X)	24.3	27	29	134.1	114	130	3.8	2	1
Gutwein 22 (2X)	24.4	–	–	128.4	–	–	0.0	–	–
Super Crost 2470 (2X)	24.4	28	–	131.1	114	–	0.0	0	–
Anderson AX-4 (Sp.)	24.4	–	–	137.5	–	–	2.2	–	–
*Pioneer 3780 (2X)	24.5	28	29	150.7	131	139	2.9	1	1
*Renk RK44 (2X)	24.5	26	28	147.7	124	134	3.5	2	1
Michigan 575-2X (2X)	24.5	27	29	136.1	121	134	4.3	2	2
McCurdy MSX42 (2X)	24.6	27	–	134.9	126	–	0.0	0	–
*Super Crost S27 (2X)	24.6	26	28	150.4	126	137	4.5	2	2
Muncy Chief SX442 (2X)	24.6	27	28	117.2	100	100	4.4	2	1
Pioneer 3591 (Sp.)	24.6	–	–	131.5	–	–	2.2	–	–
Asgrow RX53 (2X)	24.6	–	–	130.5	–	–	0.8	–	–
McCurdy MSX46 (2X)	24.7	28	–	137.4	136	–	0.0	–	–
*Cowbell 7440 (2X)	24.7	–	–	148.0	–	–	1.5	–	–
*Blaney B606E (2X)	24.8	–	–	149.8	–	–	3.7	–	–
*Amcorn 7480 (2X)	24.8	28	29	162.0	130	130	1.5	1	1
*Migro M-2018X (2X)	24.8	–	–	150.7	–	–	0.0	–	–
*DeKalb XL42 (2X)	24.8	–	–	151.8	–	–	2.9	–	–
*Dennis DS6 (2X)	24.9	–	–	152.8	–	–	0.0	–	–
*Northrup King PX48 (2X)	24.9	–	–	153.8	–	–	0.8	–	–
Cargill 434 (3X)	25.0	27	29	126.2	115	126	2.2	1	1
Pioneer 3709 (MSX)	25.0	27	–	129.2	120	–	3.4	2	–
Gutwein 468 (2X)	25.0	–	–	137.7	–	–	0.8	–	–
Voris 2442 (2X)	25.0	–	–	124.1	–	–	2.5	–	–
Super-Crost 2890 (2X)	25.0	28	29	126.7	116	129	1.5	1	1
*Migro M-0301 (2X)	25.0	29	–	155.6	125	–	3.8	4	–
P-A-G 534 (3X)	25.1	28	–	140.9	117	–	5.0	3	–
Northrup King PX46 (2X)	25.2	–	–	131.1	–	–	0.8	–	–
Wolverine W170 (2X)	25.2	28	30	144.9	124	134	0.0	0	0
*P-A-G 220 (2X)	25.2	28	–	156.7	126	–	0.0	–	–
P-A-G SX69 (2X)	25.3	28	29	144.4	129	133	3.7	2	1
Amcorn 7300 (2X)	25.3	28	29	142.7	119	131	4.4	5	3
Anderson AX-5 (Sp.)	25.4	–	–	139.0	–	–	0.0	–	–
Anderson SSE (2X)	25.5	–	–	127.7	–	–	0.7	–	–
Renk RK66 (2X)	25.5	–	–	130.3	–	–	0.0	–	–
*Garno S-100 (2X)	25.6	29	–	153.3	124	–	0.0	0	–
P-A-G SX397 (2X)	25.8	–	–	138.0	–	–	19.1	–	–
*Migro M-3020 (4X)	25.8	28	30	149.0	120	128	1.5	1	1
*DeKalb XL35 (Sp.)	25.8	–	–	150.4	–	–	0.7	–	–
Funk G-4449 (2X)	26.0	–	–	144.7	–	–	0.0	–	–
*Wolverine W174 (2X)	26.2	29	30	162.6	138	142	0.0	0	0
*Acco UC3301A (2X)	26.4	–	–	154.9	–	–	0.8	–	–
Dennis DS47A (2X)	26.7	–	–	129.7	–	–	2.2	–	–
Muncy Chief SX777 (2X)	26.8	–	–	143.0	–	–	1.5	–	–
Migro M-4501 (2X)	27.1	30	–	145.1	117	–	2.2	1	–
*Pioneer 3535 (2X)	27.3	30	32	163.3	141	139	0.0	0	0
*Dennis DS37E (2X)	27.4	–	–	159.7	–	–	0.8	–	–
*Golden Harvest H-2500 (2X)	27.4	31	33	160.3	140	135	2.2	1	1
Muncy Chief SX550 (2X)	27.5	29	30	116.9	102	113	1.5	2	1
Migro M-0505 (2X)	27.8	31	–	144.1	134	–	0.0	0	–
Migro M-0501 (2X)	28.1	32	33	112.7	111	114	1.6	1	1
*Muncy Chief SX662 (2X)	28.2	31	32	148.2	121	127	0.7	0	0
*Funk G-4507 (2X)	28.6	–	–	158.9	–	–	0.7	–	–
Golden Harvest H-2600 (2X)	28.7	–	–	141.6	–	–	0.0	–	–
*Muncy Chief H764 (4X)	28.9	32	32	152.9	128	131	0.0	0	0
Average	24.2	27	28	132.4	118	126	2.2	2	1
Range	20.0 to 28.9	22 to 32	23 to 33	94.9 to 163.3	86 to 141	92 to 145	0.0 to 19.1	0 to 7	0 to 5
Least significant difference	1.3	1.0	0.7	14.1	8	6			

*Significantly better than average yield in 1977.

(Continued)

TABLE 9. (Continued)

	1977	1976	1975
Planted	April 30	April 30	May 3
Harvested	September 27	September 27	September 29
Soil Type	Conover clay loam	Conover clay loam	Conover clay loam
Previous Crop	Corn	Corn	Corn
Population	21,400	19,800	20,500
Rows	36"	36"	36"
Fertilizer	145-50-50	157-57-57	136-36-36
Soil Test: pH	6.7	6.8	6.4
P	87 (high)	86 (high)	18 (low)
K	270 (high)	174 (medium)	245 (high)

Farm Cooperator: Michigan State University, East Lansing
County Extension Director: Marvin Preston, Mason

Table 10. **SOUTH CENTRAL MICHIGAN** Zone 2
INGHAM COUNTY TRIAL - SILAGE
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Blaney B303A (2X)	45.0	–	–	13.3	–	–	6.0	–	–
Pride 2264 (2X)	44.6	–	–	13.1	–	–	5.8	–	–
Michigan 280 (4X)	44.6	42.8	42.8	13.7	13.2	14.0	6.1	5.6	6.0
Michigan 333-3X (3X)	44.2	41.2	40.9	13.3	13.6	14.6	5.9	5.6	6.0
Golden Harvest H-2340 (2X)	44.0	–	–	14.5	–	–	6.4	–	–
Cargill 838 (2X)	43.6	–	–	15.7	–	–	6.8	–	–
Michigan 3093 (3X)	43.6	40.7	–	15.2	15.7	–	6.6	6.4	–
Muncy Chief SX442 (2X)	43.5	40.0	38.1	12.9	13.3	14.6	5.6	5.3	5.5
Amcorn 4010 (2X)	42.6	–	–	13.6	–	–	5.8	–	–
Michigan 3953 (3X)	42.5	–	–	15.5	–	–	6.6	–	–
Pioneer 3901 (2X)	42.2	–	–	15.7	–	–	6.6	–	–
Voris 2352 (2X)	42.0	–	–	12.3	–	–	5.2	–	–
Dennis DS90 (2X)	41.9	–	–	13.8	–	–	5.7	–	–
Migro M-0105 (2X)	41.6	–	–	15.1	–	–	6.3	–	–
Warwick TX27 (3X)	41.3	39.6	38.7	13.2	11.2	13.6	5.4	4.4	5.2
Asgrow RX40 (2X)	41.0	–	–	15.0	–	–	6.1	–	–
Super Crost 1692 (2X)	40.9	38.7	39.1	14.2	15.3	15.9	5.8	5.9	6.2
Warwick W966 (Sp.)	40.9	–	–	16.2	–	–	6.6	–	–
DeKalb XL12 (2X)	40.9	–	–	16.5	–	–	6.7	–	–
P-A-G SX177 (2X)	40.8	39.0	36.8	17.3	16.6	18.5	7.1	6.5	6.7
Northrup King PX26 (2X)	40.5	–	–	16.9	–	–	6.8	–	–
Funk G-4252 (3X)	40.4	38.3	–	16.8	15.8	–	6.8	6.1	–
Northrup King PX48 (2X)	40.3	–	–	17.4	–	–	7.0	–	–
Pioneer 3965	40.1	–	–	14.0	–	–	5.6	–	–
Wolverine W155 (2X)	39.8	–	–	14.4	–	–	5.7	–	–
Michigan 3102 (2X)	39.7	38.4	37.0	17.2	16.7	18.1	6.8	6.4	6.6
Stewart 310 (Sp.)	39.3	38.7	–	14.3	13.1	–	5.6	5.1	–
Amcorn 4100 (2X)	39.3	36.7	34.7	16.5	15.8	17.5	6.4	5.8	6.0
Funk G-4141 (2X)	39.1	38.6	38.3	18.3	16.2	17.1	7.1	6.2	6.5
Asgrow RX53 (2X)	38.3	–	–	18.2	–	–	6.9	–	–
Voris 2442 (2X)	38.1	–	–	17.2	–	–	6.6	–	–
Funk G-4272 (3X)	38.1	37.8	–	17.2	17.6	–	6.5	6.6	–
Pride 4404 (2X)	38.0	–	–	16.8	–	–	6.4	–	–
Cowbell 7440 (2X)	37.9	–	–	17.8	–	–	6.7	–	–
Garno S-89 (2X)	37.8	–	–	18.9	–	–	7.1	–	–
Michigan 407-2X (2X)	37.7	36.9	36.0	18.0	16.3	18.0	6.8	6.0	6.4
Super Crost S27 (2X)	37.7	35.8	35.2	17.9	17.6	18.8	6.7	6.3	6.6
Garno S-82 (2X)	37.7	36.9	–	17.8	17.9	–	6.7	6.6	–
Northrup King PX34 (2X)	37.6	–	–	16.3	–	–	6.2	–	–
Northrup King PX32 (2X)	37.6	–	–	19.4	–	–	7.2	–	–
Blaney B506 (2X)	37.5	–	–	17.5	–	–	6.6	–	–
Michigan 410-2X (2X)	37.5	36.4	35.3	18.7	17.3	19.3	7.0	6.3	6.7
Renk RK15 (2X)	37.5	–	–	18.8	–	–	7.0	–	–
Funk G-4195 (3X)	37.5	37.0	–	15.9	16.8	–	5.9	6.2	–
Funk G-4321A (2X)	36.8	34.9	–	18.6	18.4	–	6.9	6.4	–
Super Crost 2350 (2X)	36.6	34.8	–	20.4	19.1	–	7.5	6.7	–
Acco U334 (3X)	36.6	34.8	–	18.2	17.2	–	6.6	6.0	–
P-A-G SX210 (2X)	36.6	34.9	34.0	20.4	18.8	19.9	7.5	6.6	6.7
Michigan 4122 (2X)	36.6	–	–	20.2	–	–	7.4	–	–
Pioneer 3780 (2X)	36.5	34.8	33.8	19.7	18.8	21.1	7.2	6.6	7.1
Gutwein 22 (2X)	36.3	–	–	19.7	–	–	7.1	–	–
Funk G-4444 (2X)	36.2	34.8	33.8	20.4	19.1	21.1	7.4	6.7	7.1
Renk RK44 (2X)	36.2	33.9	33.2	18.4	17.9	20.1	6.6	6.0	6.6
Super Crost S18 (2X)	36.2	–	–	16.9	–	–	6.2	–	–

(Continued)

TABLE 10. (Continued)

Hybrid (Brand–Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Cargill 863 (2X)	36.1	35.8	34.4	19.2	16.8	19.0	6.9	6.0	6.4
Wolverine W170 (2X)	35.9	34.5	32.3	18.9	18.3	19.7	6.8	6.3	6.2
Michigan 5443 (3X)	35.9	34.8	33.7	18.7	19.0	20.5	6.7	6.6	6.9
Gutwein 112 (3X)	35.9	–	–	18.8	–	–	6.8	–	–
Voris 2372 (2X)	35.9	34.6	–	19.2	18.0	–	6.9	6.2	–
DeKalb XL25 (2X)	35.7	–	–	19.2	–	–	6.9	–	–
Michigan 5802 (2X)	35.6	33.9	32.7	19.1	19.6	21.9	6.8	6.6	7.1
Golden Harvest Exp. 217 (2X)	35.5	–	–	14.3	–	–	5.1	–	–
Wolverine W169 (2X)	35.3	–	–	19.5	–	–	6.8	–	–
Renk RK16 (2X)	35.3	34.9	35.5	18.5	16.5	17.0	6.6	5.8	6.0
Golden Harvest H-2370 (2X)	35.2	–	–	14.5	–	–	5.1	–	–
Cargill 434 (3X)	35.2	35.8	34.1	19.4	17.4	19.8	6.8	6.2	6.6
Anderson AX-4 (Sp.)	35.2	–	–	19.1	–	–	6.7	–	–
Super Crost 2470 (2X)	34.9	33.2	–	19.2	20.5	–	6.7	6.8	–
Michigan 575-2X (2X)	34.8	34.2	33.3	20.0	19.6	21.4	7.0	6.7	7.1
Trojan TXS102 (2X)	34.7	34.0	33.3	20.2	18.8	20.2	7.0	6.4	6.7
DeKalb XL16 (2X)	34.7	–	–	18.8	–	–	6.5	–	–
Northrup King PX46 (2X)	34.7	–	–	22.7	–	–	7.9	–	–
Anderson SSE (2X)	34.6	–	–	20.0	–	–	6.9	–	–
Acco UC3301A (2X)	34.5	–	–	21.1	–	–	7.2	–	–
Funk G-4408 (2X)	34.5	–	–	21.9	–	–	7.6	–	–
Trojan TXS105A (2X)	34.4	–	–	18.2	–	–	6.2	–	–
Golden Harvest H-2450 (2X)	34.2	34.3	33.5	19.6	17.7	20.1	6.7	6.1	6.7
McCurdy MSX42 (2X)	34.1	33.4	–	19.0	18.5	–	6.5	6.2	–
Migro M-0301 (2X)	34.0	32.2	–	22.7	22.3	–	7.7	7.0	–
Pioneer 3709 (MSX)	33.7	33.1	–	18.4	18.5	–	6.2	6.1	–
Blaney B605-WX (2X)	33.6	33.6	–	19.0	19.1	–	6.4	6.4	–
Amcorn 7480 (2X)	33.6	32.0	30.5	20.4	20.9	21.4	6.8	6.6	6.5
Gutwein 46B (2X)	33.4	–	–	23.0	–	–	7.7	–	–
Renk RW2-WX (2X)	33.4	–	–	23.1	–	–	7.7	–	–
P-A-G SX69 (2X)	33.3	32.2	31.8	20.4	19.2	20.4	6.8	6.2	6.5
Muncy Chief SX550 (2X)	33.2	33.8	32.2	18.2	16.6	18.0	6.0	5.6	5.7
Dennis DS6 (2X)	33.1	–	–	22.7	–	–	7.5	–	–
Pride 5525 (2X)	33.0	31.6	31.0	23.7	20.8	21.7	7.8	6.6	6.7
P-A-G 220 (2X)	32.9	31.9	–	21.3	19.3	–	7.0	6.2	–
Pioneer 3591 (Sp.)	32.8	–	–	19.7	–	–	6.5	–	–
P-A-G 534 (3X)	32.7	35.1	–	19.7	16.2	–	6.4	5.6	–
Anderson AX-5 (Sp.)	32.5	–	–	21.2	–	–	6.9	–	–
DeKalb XL35 (Sp.)	32.5	–	–	21.1	–	–	6.8	–	–
Pioneer 3535 (2X)	32.2	32.0	30.4	21.8	20.8	22.4	7.0	6.6	6.7
Cardinal SX112 (2X)	32.1	–	–	21.3	–	–	6.9	–	–
Super Crost 2890 (2X)	32.1	30.9	30.7	21.1	19.6	21.4	6.7	6.1	6.6
Amcorn 7300 (2X)	32.1	32.3	32.0	21.5	19.5	20.1	6.9	6.3	6.4
Blaney B606E (2X)	32.1	–	–	18.4	–	–	5.8	–	–
Garno S-100 (2X)	31.9	30.8	–	20.0	19.8	–	6.4	6.1	–
Migro M-4501 (2X)	31.9	30.7	–	23.0	23.0	–	7.3	7.0	–
McCurdy MSX46 (2X)	31.7	31.1	–	20.4	19.2	–	6.5	6.0	–
Muncy Chief SX662 (2X)	31.5	32.3	31.6	23.2	21.0	22.1	7.3	6.7	6.9
Migro M-3020 (4X)	31.3	31.5	30.2	18.6	20.8	23.5	5.8	6.5	7.0
DeKalb XL42 (2X)	31.2	–	–	19.1	–	–	6.0	–	–
Northrup King PX585 (3X)	30.9	–	–	21.8	–	–	6.7	–	–
P-A-G SX397 (2X)	30.8	–	–	19.7	–	–	6.1	–	–
Dennis DS47A (2X)	30.8	–	–	21.8	–	–	6.6	–	–
Wolverine W174 (2X)	30.7	30.1	30.5	24.1	21.1	21.8	7.4	6.4	6.6
Funk G-4449 (2X)	30.3	–	–	19.6	–	–	5.9	–	–
Migro M-0505 (2X)	30.1	28.7	–	24.8	22.5	–	7.5	6.5	–
Renk RK66 (2X)	29.4	–	–	22.3	–	–	6.5	–	–
Dennis DS37E (2X)	29.3	–	–	23.6	–	–	6.9	–	–
Golden Harvest H-2600 (2X)	28.9	–	–	24.7	–	–	7.1	–	–
Muncy Chief H764 (4X)	28.5	28.5	28.1	25.9	22.5	25.3	7.4	6.4	7.1
Migro M-2018 (2X)	28.5	–	–	20.8	–	–	5.9	–	–
Funk G-4507 (2X)	28.4	–	–	23.6	–	–	6.7	–	–
Muncy Chief SX777 (2X)	28.3	–	–	25.3	–	–	7.1	–	–
Golden Harvest H-2500 (2X)	27.4	27.5	27.9	27.1	26.8	27.0	7.4	7.3	7.5
Migro M-0501 (2X)	26.1	26.8	27.0	25.5	23.5	23.7	6.6	6.2	6.4
Average	35.9	34.5	33.6	18.8	18.3	19.8	6.7	6.2	6.5
Range	26.1 to 45.0	26.8 to 42.8	27.0 to 42.8	12.2 to 27.1	11.2 to 26.8	13.6 to 27.0	5.1 to 7.9	4.4 to 7.3	5.2 to 7.5
Least Significant Difference	2.0	1.2	0.8	1.5	0.9	0.7	0.6	0.5	0.4

(Continued)

TABLE 10. (Continued)

	1977	1976	1975
Planted	April 30	April 30	May 3
Harvested	August 25	August 31	August 28
Soil Type	Conover clay loam	Conover clay loam	Conover clay loam
Previous Crop	Corn	Corn	Corn
Population	21,100	19,300	20,400
Rows	36"	36"	36"
Fertilizer	145-50-50	157-57-57	136-36-36
Soil test: pH	6.7	6.3	6.4
P	87 (high)	86 (high)	18 (low)
K	270 (high)	174 (medium)	245 (high)

Farm Cooperator: Michigan State University, East Lansing
County Extension Director: Marvin Preston, Mason

Table 11. **NORTH CENTRAL MICHIGAN** Zone 3
SANILAC COUNTY TRIAL – GRAIN
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Cargill 810 (2X)	22.2	–	–	110.4	–	–	0.0	–	–
Michigan 280 (4X)	22.5	25	24	112.6	99	107	0.0	0	0
Funk G-5048 (4X)	23.3	–	–	105.5	–	–	0.0	–	–
Funk G-5191 (4X)	24.0	27	–	118.7	109	–	0.8	1	–
Wolverine W128 (2X)	24.2	27	26	131.7	113	120	0.0	0	0
Northrup King PX20 (2X)	24.3	–	–	141.8	–	–	0.0	–	–
Michigan 333-3X (3X)	24.4	28	26	139.5	122	130	0.8	0	1
Jacques JX62 (2X)	24.5	–	–	137.0	–	–	0.0	–	–
Pioneer 3965 (3X)	24.6	28	26	133.8	119	122	0.0	0	0
Jacques JX25 (2X)	24.6	–	–	121.0	–	–	0.0	–	–
Jacques JX92 (2X)	24.9	–	–	142.0	–	–	0.0	–	–
Michigan 3093 (3X)	24.9	28	27	132.9	122	129	0.0	0	0
Funk G-4195 (3X)	24.9	29	27	124.0	113	123	0.0	0	0
Northrup King PX15 (2X)	25.1	–	–	145.6	–	–	0.0	–	–
Voris 2352 (2X)	25.1	–	–	142.5	–	–	0.0	–	–
Michigan 3102 (2X)	25.1	29	27	146.4	132	137	0.0	0	0
Trojan TX90 (3X)	25.1	–	–	110.7	–	–	0.0	–	–
Pride 3315 (2X)	25.2	–	–	143.4	–	–	0.0	–	–
Asgrow RX40 (2X)	25.2	–	–	150.7	–	–	0.0	–	–
Golden Harvest H-2340 (2X)	25.3	–	–	138.0	–	–	0.0	–	–
Migro M-0101 (2X)	25.3	–	–	143.7	–	–	0.0	–	–
Asgrow RX32 (MSX)	25.4	28	27	104.4	93	106	0.0	0	0
Funk G-4141 (2X)	25.4	29	28	153.0	129	129	0.0	0	0
Stewart 288 (Sp.)	25.5	–	–	133.9	–	–	1.4	–	–
Super Crost 1692 (2X)	25.6	29	28	127.6	116	116	0.0	0	0
Voris 2282 (Sp.)	25.6	–	–	105.1	–	–	0.0	–	–
Pride 2264 (2X)	25.8	–	–	132.0	–	–	0.0	–	–
Stewart 290 (Sp.)	25.8	28	–	133.8	119	–	1.7	1	–
Blaney B303A (2X)	25.9	29	–	135.4	120	–	2.8	1	–
Jacques JX52 (2X)	25.9	–	–	138.1	–	–	0.0	–	–
*Voris 2372 (2X)	26.2	–	–	156.5	–	–	0.0	–	–
Cargill 825 (2X)	26.2	29	–	130.0	115	–	1.5	1	–
Garno S-82 (2X)	26.3	30	–	146.2	132	–	0.0	0	–
Michigan 410-2X (2X)	26.3	30	29	137.9	126	137	0.0	0	0
*Pioneer 3901 (2X)	26.3	–	–	163.1	–	–	0.0	–	–
*Renk RK15 (2X)	26.3	–	–	162.7	–	–	0.0	–	–
Asgrow RX53 (2X)	26.4	–	–	128.9	–	–	0.0	–	–
Trojan TXS99 (2X)	26.4	–	–	139.6	–	–	0.0	–	–
Wolverine W166 (2X)	26.4	30	30	120.6	108	129	0.0	0	1
Blaney B305-WX (2X)	26.5	–	–	133.4	–	–	1.1	–	–
*Michigan 407-2X (2X)	26.5	30	29	157.5	135	143	0.0	0	0
*Migro M-0105 (2X)	26.5	–	–	161.8	–	–	0.0	–	–
Pioneer 3958 (2X)	26.6	29	28	144.2	124	133	0.0	0	0
*Northrup King PX32 (2X)	26.6	–	–	164.1	–	–	0.0	–	–
Trojan TXS94 (2X)	26.7	29	28	136.6	121	128	1.9	1	1
P-A-G SX177 (2X)	26.7	30	29	118.6	120	128	2.1	1	1
Blaney EX7305 (2X)	26.9	30	29	125.1	122	136	0.0	0	0
Michigan 4122 (2X)	26.9	31	30	151.1	136	143	0.0	0	0
Golden Harvest H-2290 (MSX)	26.9	–	–	114.2	–	–	0.0	–	–
Funk G-4252 (3X)	27.0	30	29	139.5	117	123	0.0	0	0
Amcorn 4010 (2X)	27.1	–	–	109.8	–	–	0.0	–	–
Wolverine W155 (2X)	27.2	–	–	147.6	–	–	1.6	–	–
Gutwein 112 (3X)	27.2	–	–	148.9	–	–	0.0	–	–
*Funk G-4272 (3X)	27.3	31	–	156.7	138	–	0.0	0	–
*Jacques JX122A (2X)	27.3	31	30	161.8	133	142	0.0	0	0

(Continued)

TABLE 11. (Continued)

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Gutwein 10A (2X)	27.4	31	30	152.5	129	130	0.0	0	0
Blaney B605-WX (2X)	27.4	–	–	146.6	–	–	0.0	–	–
Blaney B443 (3X)	27.6	–	–	144.9	–	–	0.0	–	–
*DeKalb XL16 (2X)	27.6	31	–	158.7	141	147	0.0	0	–
Renk R95 (3X)	27.6	–	–	133.8	–	–	0.0	–	–
Golden Harvest H-2370 (2X)	27.6	–	–	138.9	–	–	0.0	–	–
Renk RW2-WX (2X)	27.7	–	–	153.1	–	–	0.0	–	–
Pride 4404 (2X)	27.9	31	30	141.7	118	133	0.0	0	0
Northrup King PX34 (2X)	28.0	–	–	146.2	–	–	0.0	–	–
Gutwein 40 (2X)	28.1	31	30	142.0	127	142	0.0	0	0
Acco UC2901 (2X)	28.1	31	30	144.2	125	136	0.0	0	0
P-A-G SX189 (2X)	28.2	–	–	137.8	–	–	0.0	–	–
*Michigan 5443 (3X)	28.2	32	31	157.8	133	142	0.0	0	1
*Pride 5525 (2X)	28.3	32	–	159.4	138	–	0.0	0	–
Super Crost 2350 (2X)	28.3	32	–	137.5	114	–	0.0	0	–
*Pioneer 3780 (2X)	28.7	32	31	156.9	136	147	1.3	0	0
*Pioneer 3709 (2X)	28.9	32	–	157.8	132	–	0.0	0	–
*Amcorn 4100 (2X)	29.0	–	–	156.7	–	–	1.8	–	–
*Migro M-2018X (2X)	29.1	–	–	165.8	–	–	0.0	–	–
DeKalb XL42 (2X)	29.1	–	–	142.8	–	–	0.0	–	–
Migro M-2022X (2X)	29.2	–	–	150.0	–	–	0.0	–	–
*Amcorn 7480 (2X)	29.6	–	–	161.3	–	–	0.0	–	–
Golden Harvest H-2450 (2X)	29.7	33	–	153.9	134	–	0.0	0	–
Michigan 5802 (2X)	29.7	33	32	155.1	135	143	0.0	0	0
Amcorn 7300 (2X)	29.8	–	–	143.1	–	–	0.0	–	–
Blaney B606 (2X)	29.9	33	–	152.8	134	–	0.0	0	–
*Northrup King PX529 (3X)	29.9	–	–	157.2	–	–	0.0	–	–
Super Crost 2470 (2X)	30.1	33	–	135.5	115	–	0.0	0	–
Super Crost 2890 (2X)	30.1	33	33	150.4	129	141	0.0	0	0
P-A-G SX210 (2X)	30.2	33	32	151.7	124	133	0.0	0	0
*Super Crost S27 (2X)	30.2	33	32	165.8	141	148	0.0	0	0
Renk RK66 (2X)	30.3	–	–	125.1	–	–	2.8	–	–
Michigan 575-2X (2X)	30.4	33	32	139.6	128	140	0.7	0	0
Migro M-3020 (4X)	30.5	33	–	124.5	106	–	0.0	0	–
*Gutwein 22 (2X)	30.5	33	–	163.2	135	–	0.0	0	–
*P-A-G 534 (3X)	30.5	33	–	156.8	138	–	0.0	0	–
*Northrup King PX48 (2X)	30.5	–	–	162.5	–	–	0.0	–	–
Acco UC3002 (2X)	30.5	–	–	136.5	–	–	0.0	–	–
Funk G-4444 (2X)	30.5	33	32	151.0	128	139	0.0	0	0
Payco SX990 (2X)	30.8	–	–	142.8	–	–	0.0	–	–
Trojan TXS102 (2X)	30.8	33	33	153.1	131	146	0.0	0	0
*Migro M-0301 (2X)	31.0	34	–	160.8	133	–	0.0	0	–
*Northrup King PX46 (2X)	31.2	–	–	162.7	–	–	0.0	–	–
Average	27.2	31	29	141.9	125	133	0.2	0.1	0.1
Range	22.2 to 31.2	25 to 34	24 to 33	104.4 to 165.8	93 to 141	106 to 148	0.0 to *2.8	0 to 1	0 to 1
Least significant difference	1.4	1.0	0.7	14.3	8	6			

Significantly better than average yield in 1977.

	1977	1976	1975
Planted	May 9	May 20	May 15
Harvested	October 28	October 21	October 22
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Corn	Corn	Corn
Population	21,300	20,900	20,400
Rows	30"	30"	30"
Fertilizer	125-95-144	113-30-120	30-30-30
Soil Test: pH	6.6	6.9	7.0
P	104 (very high)	78 (high)	83 (high)
K	173 (medium)	180 (medium)	195 (medium)

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

Table 12. NORTH CENTRAL MICHIGAN Zone 3
SANILAC COUNTY TRIAL – SILAGE

One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Pioneer 3958 (2X)	44.3	–	–	13.5	–	–	6.0	–	–
Michigan 280 (4X)	44.1	39.3	39.4	13.4	14.2	15.1	5.9	5.5	5.9
Trojan TXS90 (3X)	43.3	–	–	13.8	–	–	6.0	–	–
Funk G-5191 (4X)	43.2	37.9	–	13.4	14.8	–	5.8	5.5	–
Michigan 333-3X (3X)	43.2	37.6	36.7	13.2	14.1	16.0	5.7	5.2	5.8
Cargill 810 (2X)	43.2	–	–	12.7	–	–	5.5	–	–
Cargill 825 (2X)	43.0	38.7	–	13.3	13.7	–	5.7	5.3	–
Wolverine W128 (2X)	42.2	37.1	36.1	12.2	13.0	14.6	5.1	4.7	5.1
Michigan 3093 (3X)	42.0	37.3	35.5	14.3	14.8	17.9	6.0	5.5	6.1
Funk G-5048 (4X)	41.8	–	–	13.2	–	–	5.5	–	–
Pride 2264 (2X)	40.8	–	–	15.4	–	–	6.3	–	–
Northrup King PX20 (2X)	40.8	–	–	15.7	–	–	6.4	–	–
Jacques JX25 (2X)	40.7	–	–	16.9	–	–	6.7	–	–
Migro M-0101 (2X)	40.4	–	–	15.4	–	–	6.2	–	–
Pioneer 3965 (3X)	39.6	34.8	34.5	14.1	14.7	17.1	5.6	5.1	5.9
Funk G-4195 (3X)	39.6	35.8	35.2	16.2	16.5	18.4	6.4	5.9	6.4
Asgrow RX32 (MSX)	39.6	35.4	34.8	13.1	13.7	16.0	5.2	4.8	5.5
Funk G-4252 (3X)	39.5	34.8	33.4	13.9	15.0	18.5	5.5	5.1	6.0
Golden Harvest H-2370 (2X)	39.2	–	–	15.5	–	–	6.1	–	–
Renk R95 (3X)	38.7	–	–	16.6	–	–	6.5	–	–
Jacques JX92 (2X)	38.7	–	–	17.3	–	–	6.7	–	–
Garno S-82 (2X)	38.6	34.0	–	15.6	16.4	–	6.0	5.5	–
Super Crost 1692 (2X)	38.4	35.2	35.5	15.3	16.5	17.1	5.9	5.8	6.1
Jacques JX52 (2X)	38.1	–	–	16.4	–	–	6.3	–	–
Michigan 3102 (2X)	38.0	34.9	34.3	18.9	17.8	19.6	7.2	6.2	6.7
Golden Harvest H-2340 (2X)	38.0	–	–	18.4	–	–	7.0	–	–
Blaney B305-WX (2X)	37.9	–	–	15.6	–	–	5.9	–	–
Trojan TXS99 (2X)	37.8	–	–	15.2	–	–	5.8	–	–
Golden Harvest H-2290 (MSX)	37.8	–	–	17.7	–	–	6.7	–	–
Voris 2352 (2X)	37.3	–	–	17.0	–	–	6.3	–	–
Northrup King PX15 (2X)	36.7	–	–	17.2	–	–	6.3	–	–
Funk G-4141 (2X)	36.7	33.5	33.1	17.3	18.4	19.9	6.4	6.1	6.6
Trojan TXS94 (2X)	36.6	33.1	34.0	15.2	14.7	16.5	5.6	4.9	5.6
Voris 2282 (Sp.)	36.6	–	–	14.8	–	–	5.4	–	–
Blaney EX7305 (2X)	36.3	33.3	32.4	16.6	17.5	19.8	6.0	5.8	6.4
Northrup King PX529 (3X)	36.2	–	–	21.4	–	–	7.8	–	–
Michigan 407-2X (2X)	36.1	33.1	32.4	19.1	18.0	19.7	6.9	6.0	6.4
P-A-G SX189 (2X)	35.8	–	–	17.7	–	–	6.4	–	–
Wolverine W166 (2X)	35.8	31.7	31.3	17.3	17.1	19.5	6.2	5.4	6.1
Blaney B303A (2X)	35.8	32.9	–	15.6	15.3	–	5.6	5.1	–
P-A-G SX177 (2X)	35.8	31.9	32.4	21.8	19.8	20.5	7.8	6.4	6.7
Pride 3315 (2X)	35.6	–	–	17.8	–	–	6.3	–	–
Asgrow RX40 (2X)	35.6	–	–	15.2	–	–	5.4	–	–
Michigan 410-2X (2X)	35.5	32.4	31.8	18.3	17.8	19.8	6.5	5.8	6.3
Wolverine W155 (2X)	35.4	–	–	15.8	–	–	5.5	–	–
Michigan 4122 (2X)	35.3	–	–	21.5	–	–	7.6	–	–
Super Crost 2350 (2X)	35.3	32.6	–	21.9	18.5	–	7.7	6.1	–
Pioneer 3901 (2X)	35.3	–	–	19.2	–	–	6.8	–	–
Northrup King PX32 (2X)	35.0	–	–	20.1	–	–	7.1	–	–
Funk G-4272 (3X)	35.0	31.8	–	22.3	19.2	–	7.8	6.2	–
Pioneer 3780 (2X)	35.0	31.5	31.1	22.9	20.3	22.0	8.0	6.5	6.9
Trojan TXS102 (2X)	34.9	31.4	30.3	21.2	19.5	21.6	7.4	6.2	6.5
Golden Harvest H-2450 (2X)	34.9	30.8	–	18.3	17.7	–	6.4	5.5	–
Voris 2372 (2X)	34.9	–	–	20.1	–	–	7.0	–	–
Jacques JX122A (2X)	34.8	31.5	30.3	22.0	20.9	23.1	7.6	6.6	6.9
Stewart 290 (Sp.)	34.7	31.7	–	17.0	15.4	–	5.9	4.9	–
Jacques JX62 (2X)	34.7	–	–	16.4	–	–	5.7	–	–
Stewart 288 (Sp.)	34.6	–	–	16.6	–	–	5.7	–	–
Pride 4404 (2X)	34.5	32.4	31.4	17.0	17.6	18.7	5.9	5.7	5.8
Michigan 5443 (3X)	34.5	31.2	31.0	20.0	19.4	21.5	6.9	6.1	6.6
Blaney B443 (3X)	34.4	–	–	18.9	–	–	6.5	–	–
DeKalb XL16 (2X)	34.4	32.3	32.2	18.9	17.0	19.0	6.5	5.5	6.1
Gutwein 22 (2X)	34.4	30.5	–	18.9	18.4	–	6.5	5.6	–
Acco UC3002 (2X)	34.3	–	–	21.3	–	–	7.3	–	–
Migro M-2022 (2X)	34.1	–	–	22.1	–	–	7.5	–	–
Gutwein 112 (3X)	34.1	–	–	17.4	–	–	6.1	–	–
Amcorn 4010 (2X)	34.1	–	–	17.6	–	–	6.0	–	–
Super Crost 527 (2X)	33.7	30.7	30.6	18.0	17.5	19.9	6.1	5.6	6.2
Pride 5525 (2X)	33.5	30.5	–	23.9	22.9	–	8.0	7.0	–
Michigan 5802 (2X)	33.5	30.5	29.6	21.6	20.2	23.2	7.2	6.2	6.8
Northrup King PX34 (2X)	33.3	–	–	19.3	–	–	6.5	–	–
Amcorn 7300 (2X)	33.3	–	–	18.8	–	–	6.3	–	–
Funk G-4444 (2X)	33.3	30.6	30.1	20.7	19.6	22.2	6.9	6.0	6.7
Gutwein 10A (2X)	33.1	31.1	31.3	21.3	19.2	21.1	7.0	6.0	6.6
Michigan 575-2X (2X)	33.0	30.4	29.9	20.9	19.7	22.2	6.9	6.0	6.6

(Continued)

Table 12. (Continued)

Hybrid (Brand–Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
P-A-G SX210 (2X)	32.7	30.3	29.4	18.7	18.9	20.9	6.1	5.7	6.1
Asgrow RX53 (2X)	32.7	–	–	19.2	–	–	6.3	–	–
Blaney B605-WX (2X)	32.4	–	–	24.7	–	–	8.0	–	–
P-A-G 534 (3X)	32.2	30.1	–	22.9	21.7	–	7.4	6.6	–
Blaney B606 (2X)	32.1	29.5	–	22.5	19.9	–	7.3	6.0	–
Renk RW2-WX (2X)	32.0	–	–	22.6	–	–	7.2	–	–
Renk RK66 (2X)	32.0	–	–	21.2	–	–	6.8	–	–
Migro M-0105 (2X)	31.9	–	–	19.3	–	–	6.2	–	–
Renk RK15 (2X)	31.9	–	–	19.1	–	–	6.1	–	–
Migro M-3020 (4X)	31.5	29.4	–	22.7	20.7	–	7.1	6.1	–
Northrup King PX46 (2X)	31.4	–	–	21.5	–	–	6.8	–	–
Gutwein 40 (2X)	31.4	29.3	29.3	22.7	20.7	21.6	7.1	6.1	6.3
Acco UC2901 (2X)	31.3	30.0	28.8	21.1	20.1	22.4	6.6	6.0	6.4
Pioneer 3709 (MSX)	31.2	29.6	–	19.2	19.0	–	6.0	5.6	–
Northrup King PX48 (2X)	31.0	–	–	21.8	–	–	6.8	–	–
Amcorn 4100 (2X)	30.5	–	–	20.3	–	–	6.2	–	–
Super Crost 2890 (2X)	30.2	28.0	28.8	20.9	18.6	21.3	6.3	5.8	6.1
Payco SX990 (2X)	30.1	–	–	20.6	–	–	6.2	–	–
Migro M-0301 (2X)	29.8	27.9	–	18.7	17.6	–	5.5	4.9	–
Migro M-2018X (2X)	29.7	–	–	23.2	–	–	7.0	–	–
Super Crost 2470 (2X)	29.4	27.0	–	21.5	20.4	–	6.2	5.5	–
DeKalb XL42 (2X)	29.2	–	–	20.9	–	–	6.1	–	–
Amcorn 7480 (2X)	26.2	–	–	18.5	–	–	4.8	–	–
Average	35.6	32.6	32.4	18.3	17.7	19.6	6.4	5.7	6.2
Range	26.2 to 44.3	27.0 to 39.3	28.8 to 39.3	12.2 to 24.7	13.0 to 22.9	14.6 to 23.2	5.2 to 8.0	4.7 to 7.0	5.1 to 6.9
Least significant difference	1.8	1.2	0.8	1.6	1.0	0.6	0.6	0.5	0.4

	1977	1976	1975
Planted	April 30	May 13	April 30
Harvested	September 12	September 7	September 2
Soil Type	Parkhill loam	Parkhill loam	Parkhill loam
Previous Crop	Corn	Corn	Corn
Population	21,200	20,100	21,100
Rows	30"	30"	30"
Fertilizer	160-100-80	201-104-198	116-64-112
Soil Test: pH	7.0	6.4	7.3
P	55 (medium)	90 (high)	84 (high)
K	415 (very high)	477 (very high)	178 (medium)

Farm Cooperator: Charles Cork, Peck

County Extension Director: Rex Sieting, Sandusky

Table 13. NORTH CENTRAL MICHIGAN Zone 3
SAGINAW COUNTY TRIAL

One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Renk RK3 (2X)	23.5	–	–	76.4	–	–	0.0	–	–
Michigan 280 (4X)	23.8	23	21	78.1	76	80	1.7	6	5
Stewart 288 (SP.)	24.5	–	–	93.7	–	–	0.0	–	–
Funk G-5191 (4X)	24.5	23	–	69.3	76	–	0.0	3	–
Michigan 3093 (3X)	24.9	25	24	86.7	90	98	0.0	2	2
Voris 2352 (2X)	25.0	–	–	80.2	–	–	0.9	–	–
Michigan 333-3X (3X)	25.2	24	24	87.2	89	96	0.0	1	1
ADI 232 (2X)	25.2	–	–	80.5	–	–	0.0	–	–
Dairyland DX1095 (2X)	25.2	–	–	92.9	–	–	0.9	–	–
Payco 3X573	25.7	–	–	68.0	–	–	2.5	–	–
Pioneer 3958 (2X)	25.8	25	24	94.5	85	85	0.0	2	3
Asgrow RX40 (2X)	26.5	–	–	93.1	–	–	0.8	–	–
Michigan 3102 (2X)	26.5	26	24	90.8	91	102	0.0	2	2
Northrup King PX20 (2X)	26.5	–	–	73.4	–	–	0.0	–	–
Migro M-0101 (2X)	26.5	25	24	91.2	86	90	3.4	4	3
Funk G-4195 (3X)	26.6	26	24	78.0	82	97	0.0	1	1
Super Crost 1692 (2X)	26.6	26	25	73.6	83	84	0.0	1	1
Blaney EX7305 (2X)	26.7	27	26	80.5	89	96	0.9	1	1
ADI 195 (2X)	26.7	–	–	70.7	–	–	0.0	–	–
Funk G-4141 (2X)	26.8	26	25	99.3	94	96	1.7	1	1

(Continued)

TABLE 13 (Continued)

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Anderson 3W80 (3X)	26.8	–	–	85.1	–	–	0.0	–	–
*Northrup King PX34 (2X)	26.8	–	–	110.8	–	–	0.0	–	–
Acco U334 (3X)	26.8	28	26	97.3	97	105	0.0	3	2
*Michigan 3953	26.9	–	–	111.7	–	–	0.0	–	–
Northrup King PX15 (2X)	27.0	–	–	89.1	–	–	0.0	–	–
*Pride 2264 (2X)	27.2	–	–	110.2	–	–	0.0	–	–
Amcorn 4010 (2X)	27.3	–	–	78.1	–	–	0.0	–	–
Wolverine W166 (2X)	27.5	28	27	84.2	88	92	0.0	0	0
Pioneer 3901 (2X)	27.5	–	–	103.4	–	–	0.0	–	–
Payco SX680 (2X)	27.5	27	–	79.6	84	–	0.0	1	–
Blaney B401 (2X)	27.7	–	–	101.1	–	–	0.0	–	–
Stewart 290 (Sp.)	27.7	–	–	95.9	–	–	0.0	–	–
Amcorn 4100 (2X)	27.8	27	–	96.3	94	–	0.0	1	–
Gutwein 08 (2X)	27.9	27	25	84.4	85	89	0.9	0	1
Payco SX555 (2X)	28.0	–	–	80.6	–	–	0.0	–	–
Dairyland DX1002 (2X)	28.1	–	–	88.5	–	–	0.0	–	–
*Asgrow RX53 (2X)	28.4	–	–	108.4	–	–	0.0	–	–
Funk G-4252 (3X)	28.5	28	26	88.7	84	95	0.0	2	2
Blaney B305-WX (2X)	28.6	–	–	78.4	–	–	1.6	–	–
Muncy Chief SX442 (2X)	28.8	29	28	77.3	79	86	0.8	0	1
Golden Harvest H-2370 (2X)	29.2	27	–	100.2	91	–	0.0	1	–
Michigan 407-2X (2X)	29.2	28	27	100.9	101	109	0.0	2	2
Pride 4404 (2X)	29.2	29	27	85.3	86	93	1.9	1	1
*Migro M-0105 (2X)	29.3	–	–	118.5	–	–	0.0	–	–
Michigan 410-2X (2X)	29.3	28	27	100.7	96	103	0.0	3	2
O's Gold SX1107 (2X)	29.3	29	–	85.7	98	–	1.8	1	–
Super Crost S18 (2X)	29.3	–	–	84.2	–	–	0.0	–	–
Northrup King PX32 (2X)	29.4	28	27	94.5	95	100	0.0	1	1
Super Crost 2350 (2X)	29.5	29	–	92.7	99	–	0.0	0	–
Funk G-4321A (2X)	29.7	30	–	95.6	100	–	0.0	0	–
Voris 2372 (2X)	29.7	–	–	104.3	–	–	0.8	–	–
*Wolverine W169 (2X)	29.7	–	–	115.0	–	–	0.0	–	–
Funk G-4272 (3X)	29.8	–	–	102.3	–	–	0.0	–	–
*Anderson SSA (2X)	29.8	–	–	124.0	–	–	0.0	–	–
Amcorn 7480 (2X)	30.0	–	–	86.9	–	–	0.0	–	–
Dairyland DX302 (3X)	30.0	–	–	91.8	–	–	0.0	–	–
*Michigan 4122 (2X)	30.0	29	28	112.4	111	119	0.0	0	0
*Cowbell 7440 (2X)	30.1	–	–	123.6	–	–	0.0	–	–
*Blaney B605-WX (2X)	30.1	29	–	118.0	112	–	0.0	1	–
Super Crost 2890 (2X)	30.1	31	30	86.2	89	103	0.0	0	0
Blaney B606 (2X)	30.1	30	30	84.4	90	107	0.0	0	0
Michigan 575-2X (2X)	30.3	30	29	101.9	100	110	0.0	1	1
Gutwein 10A (2X)	30.4	30	28	91.4	96	97	0.8	1	1
*Michigan 5443 (3X)	30.6	30	28	109.1	104	111	0.0	3	2
Payco SX775 (2X)	30.6	–	–	92.2	–	–	0.0	–	–
Renk RW2–WX (2X)	30.6	–	–	95.0	–	–	0.0	–	–
Anderson AX-3 (Sp.)	30.6	–	–	86.1	–	–	0.0	–	–
*Super Crost S27 (2X)	30.6	30	28	109.9	105	107	0.0	2	2
*Pioneer 3780 (2X)	30.6	30	28	109.1	103	113	0.0	1	1
Amcorn 7300 (2X)	30.7	30	–	97.5	93	–	2.2	2	–
Northrup King PX48 (2X)	30.8	–	–	87.6	–	–	0.0	–	–
Wolverine W170 (2X)	30.8	30	29	99.5	104	109	0.0	0	1
*Northrup King PX529 (3X)	30.9	–	–	107.6	–	–	0.0	–	–
Michigan 5802 (2X)	31.0	31	29	104.5	103	116	0.0	0	1
*Northrup King PX46 (2X)	31.0	–	–	106.9	–	–	1.6	–	–
*Trojan TXS102 (2X)	31.1	32	30	108.4	100	108	0.0	3	2
Muncy Chief H304 (4X)	31.4	30	29	89.2	85	86	2.2	2	2
Migro M-2018X (2X)	31.4	–	–	92.0	–	–	0.9	–	–
Migro M-2022X (2X)	31.4	–	–	87.9	–	–	1.7	–	–
*O's Gold SX1100 (2X)	31.6	31	29	124.9	114	120	0.0	0	0
Wolverine W174 (2X)	31.6	31	30	104.0	99	109	0.0	0	0
*Funk G-4444 (2X)	31.7	31	30	129.2	116	117	0.0	0	1
U.S. Steel 0011 (2X)	31.7	30	–	103.5	102	–	0.0	3	–
U.S. Steel 0010 (2X)	31.7	–	–	94.0	–	–	0.0	–	–
Funk G-4408 (2X)	31.8	–	–	91.6	–	–	0.0	–	–
ADI 197 (2X)	31.8	–	–	88.9	–	–	0.0	–	–
Gutwein 22 (2X)	32.0	31	–	90.1	101	–	0.0	1	–
Anderson SSE (2X)	32.1	–	–	87.9	–	–	1.8	–	–
Pride 5525 (2X)	32.1	–	–	100.9	–	–	0.0	–	–
Cardinal SX112 (2X)	32.2	–	–	102.4	–	–	0.0	–	–
Golden Harvest H-2450 (2X)	32.4	32	31	92.8	100	106	0.0	1	1
Muncy Chief 3X553 (3X)	32.5	–	–	95.2	–	–	0.0	–	–
Renk RK44 (2X)	33.1	–	–	93.5	–	–	0.8	–	–
Super Crost 2470 (2X)	33.3	32	–	85.4	87	–	0.0	0	–

(Continued)

TABLE 13 (Continued)

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Migro M-0301 (2X)	33.5	34	–	95.8	89	–	0.0	0	–
Muncy Chief SX550 (2X)	33.7	32	31	83.3	84	91	1.1	4	3
Average	29.1	29	27	94.6	94	101	0.4	1	1
Range	23.5 to 33.7	23 to 34	21 to 31	68.0 to 131.2	76 to 116	80 to 120	0.0 to 3.4	0 to 6	0 to 5
Least significant difference	1.4	0.9	0.8	12.2	7	5			

*Significantly better than average yield in 1977.

	1977	1976	1975
Planted	April 28	May 20	May 2
Harvested	November 1	October 14	October 17
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Sugar beets	Corn	Corn
Population	19,100	19,700	19,900
Rows	30"	30"	30"
Fertilizer	177-108-108	174-96-48	90-78-39
Soil Test: pH	7.5	7.1	7.2
P	106 (very high)	178 (very high)	68 (high)
K	297 (high)	245 (high)	268 (high)

Farm Cooperators: Walter Reinbold & Sons, Reese
County Extension Director: Norman Brown, Saginaw

Table 14. NORTH CENTRAL MICHIGAN Zone 3
HURON COUNTY TRIAL – GRAIN
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Funk G-4040 (2X)	23.8	23	22	110.1	99	100	2.2	1	1
Renk RK3 (2X)	24.3	24	–	105.4	100	–	7.6	4	–
Michigan 280 (4X)	24.4	23	22	99.2	97	99	2.8	1	2
Funk G-5048 (4X)	24.7	–	–	84.1	–	–	6.6	–	–
Michigan 3093 (3X)	24.9	25	24	131.7	119	122	3.6	2	2
Michigan 333-3X (3X)	25.1	25	23	125.7	115	115	0.0	0	0
Northrup King PX20 (2X)	25.2	–	–	103.0	–	–	8.3	–	–
Lowe LSX14 (2X)	25.3	–	–	76.9	–	–	21.0	–	–
Pioneer 3965 (3X)	25.5	26	25	116.3	108	109	1.4	2	1
Pride 2206 (2X)	26.0	–	–	121.8	–	–	4.2	–	–
Pickseed 185 (Sp.)	26.0	25	–	106.0	104	–	5.2	3	–
Wolverine W128 (2X)	26.1	28	26	104.5	100	110	8.6	5	3
Voris 2352 (2X)	26.2	–	–	105.2	–	–	5.0	–	–
Funk G-5191 (4X)	26.2	25	–	97.4	90	–	4.3	2	–
Lowe LSX101 (2X)	26.5	–	–	111.7	–	–	2.7	–	–
Anderson 3W80 (3X)	26.8	–	–	88.9	–	–	0.8	–	–
Golden Harvest H-2350 (2X)	26.8	–	–	135.8	–	–	2.9	–	–
Funk G-4195 (3X)	26.8	27	25	115.6	110	115	1.4	1	1
Golden Harvest H-2340 (2X)	26.8	–	–	133.7	–	–	3.6	–	–
Michigan 3102 (2X)	26.8	28	25	135.3	122	125	0.0	0	0
Pioneer 3958 (2X)	26.9	27	–	105.4	97	–	3.1	2	–
Cargill 810 (2X)	26.9	–	–	118.4	–	–	1.4	–	–
Warwick TX27 (3X)	26.9	–	–	97.8	–	–	3.1	–	–
Golden Harvest H-2370 (2X)	26.9	29	–	117.5	103	–	4.2	2	–
Funk G-4141 (2X)	26.9	28	25	137.5	122	125	1.4	1	0
Jacques JX62 (2X)	27.1	–	–	103.3	–	–	1.6	–	–
Warwick TX20 (3X)	27.1	–	–	88.8	–	–	5.6	–	–
Northrup King PX15 (2X)	27.1	–	–	144.3	–	–	0.7	–	–
Asgrow RX40 (2X)	27.3	–	–	125.9	–	–	2.1	–	–
DeKalb XL12 (2X)	27.3	–	–	134.4	–	–	1.4	–	–
Stewart 288 (Sp.)	27.6	–	–	94.3	–	–	16.2	–	–
*Garno S-82 (2X)	27.8	30	–	149.2	122	–	1.4	1	–
Asgrow RX2222 (2X)	27.8	–	–	124.0	–	–	0.0	–	–
Super Crost 1692 (2X)	27.8	28	25	99.5	96	101	6.8	4	3
Blaney B302 (2X)	28.0	–	–	141.7	–	–	0.7	–	–
Migro M-0101 (2X)	28.1	27	24	127.5	110	105	2.1	1	1
Trojan TXS85 (2X)	28.2	–	–	110.0	–	–	20.5	–	–
Amcorn 4010 (2X)	28.3	–	–	100.1	–	–	0.9	–	–
P-A-G SX177 (2X)	28.3	29	26	132.6	107	108	1.4	1	1
Trojan TXS94 (2X)	28.4	28	26	127.8	116	121	4.1	2	1

(Continued)

TABLE 14. (Continued)

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1977	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Michigan 3953 (3X)	28.4	–	–	136.8	–	–	2.1	–	–
Renk R95 (3X)	28.4	29	–	118.4	117	–	2.1	1	–
Gutwein 08 (2X)	28.5	29	27	101.1	93	100	1.7	1	1
Trojan TX92 (3X)	28.5	–	–	113.1	–	–	0.7	–	–
Northrup King PX32 (2X)	28.6	–	–	145.8	–	–	1.4	–	–
Cargill 825 (2X)	28.8	28	–	112.2	109	–	3.5	3	–
Trojan TXS99 (2X)	28.8	29	26	133.7	120	122	2.9	1	1
*Michigan 4122 (2X)	28.8	30	28	151.7	133	139	2.3	1	1
Wolverine W166 (2X)	28.9	31	29	144.6	125	131	3.6	2	1
*Pioneer 3901 (2X)	28.9	–	–	158.6	–	–	2.1	–	–
Migro M-0105 (2X)	28.9	–	–	130.6	–	–	3.5	–	–
Garno S-89 (2X)	29.0	–	–	141.7	–	–	7.7	–	–
Funk G-4252 (3X)	29.1	29	27	129.7	115	117	3.5	2	1
Amcorn 7300 (2X)	29.2	–	–	144.7	–	–	0.0	–	–
*Gutwein 112 (3X)	29.2	–	–	154.2	–	–	1.4	–	–
Michigan 410-2X (2X)	29.2	30	28	143.5	121	127	0.7	1	1
Asgrow RX53 (2X)	29.4	–	–	145.9	–	–	0.7	–	–
*P-A-G SX189 (2X)	29.5	–	–	154.9	–	–	0.0	–	–
*Michigan 407-2X (2X)	29.5	29	27	148.5	127	134	2.9	2	3
Anderson AX-3 (Sp.)	29.5	–	–	110.3	–	–	0.7	–	–
Amcorn 4100 (2X)	29.8	–	–	121.1	–	–	2.8	–	–
Stewart 290 (Sp.)	29.9	29	–	106.8	98	–	7.8	4	–
Blaney B402 (2X)	30.0	–	–	134.3	–	–	1.4	–	–
Acco U334 (3X)	30.0	30	–	135.4	126	–	1.4	1	–
Anderson SSA (2X)	30.0	–	–	119.5	–	–	0.0	–	–
Pride 2264 (2X)	30.1	–	–	120.3	–	–	3.6	–	–
*Jacques JX122A (2X)	30.2	–	–	147.5	–	–	0.7	–	–
*Northrup King PX529 (3X)	30.2	–	–	151.3	–	–	1.4	–	–
*Voris 2372 (2X)	30.2	–	–	149.2	–	–	0.7	–	–
Michigan 5443 (3X)	30.3	31	29	134.6	122	129	2.3	2	2
*DeKalb XL16 (2X)	30.3	–	–	145.5	–	–	0.7	–	–
Blaney EX7305 (2X)	30.5	31	28	118.9	110	117	2.0	1	1
Gutwein 10A (2X)	30.5	31	28	120.8	119	125	0.0	0	0
*Northrup King PX34 (2X)	30.6	–	–	150.9	–	–	0.0	–	–
Funk G-4272 (3X)	30.8	–	–	132.8	–	–	0.7	–	–
Super Crost 2350 (2X)	30.8	32	–	132.2	126	–	0.0	0	–
P-A-G SX210 (2X)	31.1	–	–	120.0	–	–	3.4	–	–
Funk G-4321A (2X)	31.1	33	–	130.4	116	–	1.4	1	–
Voris X380 (2X)	31.2	–	–	134.8	–	–	2.8	–	–
*Pickseed XR44 (2X)	31.3	32	–	146.7	130	–	0.0	0	–
Pioneer 3535 (2X)	31.3	33	31	141.5	121	125	0.0	0	0
Pioneer 3591 (Sp.)	31.3	–	–	138.5	–	–	0.7	–	–
Super Crost 2890 (2X)	31.4	33	–	132.3	121	–	1.4	1	–
Blaney B605-WX (2X)	31.4	31	–	128.6	119	–	0.0	0	–
Golden Harvest H-2450 (2X)	31.4	32	29	133.0	128	134	0.7	0	0
*Pioneer 3780 (2X)	31.6	32	30	162.4	138	139	0.7	1	1
Blaney B606E (2X)	31.7	–	–	126.6	–	–	4.2	–	–
*Michigan 5802 (2X)	31.7	32	30	167.7	144	140	3.6	2	1
*Gutwein 22 (2X)	31.8	32	–	172.8	136	–	3.0	2	–
*Funk G-4444 (2X)	31.9	32	30	161.0	135	136	2.5	1	0
*Funk G-4408 (2X)	31.9	–	–	157.4	–	–	0.7	–	–
Michigan 575-2X (2X)	31.9	33	30	145.1	125	129	2.9	1	1
*Northrup King PX46 (2X)	32.0	–	–	151.9	–	–	0.0	–	–
Amcorn 7480 (2X)	32.0	–	–	131.0	–	–	0.7	–	–
*DeKalb XL42 (2X)	32.0	–	–	166.4	–	–	5.9	–	–
Super Crost 2470 (2X)	32.1	33	–	133.0	118	–	3.7	2	–
*Trojan TXS102 (2X)	32.1	32	30	155.8	139	138	4.4	3	2
*Northrup King PX48 (2X)	32.2	–	–	151.6	–	–	0.0	–	–
*Renk RK44 (2X)	32.2	–	–	150.7	–	–	1.4	–	–
Migro M-2022X (2X)	32.3	–	–	138.2	–	–	1.4	–	–
*Pioneer 3709 (MSX)	32.3	32	–	148.7	124	–	0.7	0	–
*Super Crost S27 (2X)	32.4	32	30	151.8	132	133	0.0	1	1
P-A-G SX397 (2X)	32.6	–	–	143.6	–	–	0.0	–	–
*Migro M-3020 (4X)	32.8	34	–	148.9	127	–	0.0	0	–
*Acco UC3301A (2X)	33.0	–	–	151.2	–	–	3.6	–	–
*Wolverine W174 (2X)	33.1	34	32	174.9	141	144	0.0	0	0
*Migro M-2018X (2X)	33.3	–	–	152.9	–	–	0.0	–	–
*Gutwein 46B (2X)	34.1	–	–	146.3	–	–	0.0	–	–
Migro M-0301 (2X)	34.3	35	–	145.7	135	–	0.7	0	–
*Golden Harvest H-2500 (2X)	34.5	35	33	154.8	132	131	1.5	1	1
*Golden Harvest EXP377 (2X)	34.9	–	–	168.0	–	–	0.7	–	–
Average	29.1	30	27	131.7	118	123	2.6	1	1
Range	23.8 to 34.9	23 to 35	21 to 33	76.9 to 174.9	90 to 144	99 to 144	0.0 to 21.0	0 to 5	0 to 3
Least significant difference	1.4	1.0	0.7	14.4	8	5			

*Significantly better than average yield in 1977.

(Continued)

TABLE 14. (Continued)

	1977	1976	1975
Planted	April 30	May 13	April 30
Harvested	October 25	October 19	October 14
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Corn	Corn	Corn
Population	21,100	19,600	19,900
Rows	30"	30"	30"
Fertilizer	182-92-202	188-82-12	157-82-132
Soil Test: pH	7.2	7.4	7.0
P	83 (high)	68 (high)	45 (medium)
K	288 (high)	263 (high)	194 (medium)

Farm Cooperator: William McCrea, Bad Axe
Extension Livestock Agent: Lee Warschefsky, Bad Axe

Table 15. NORTH CENTRAL MICHIGAN Zone 3
HURON COUNTY TRIAL – SILAGE
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Dry matter 1977	% Dry matter 2 yrs.	% Dry matter 3 yrs.	Tons per acre Green weight 1977	Tons per acre Green weight 2 yrs.	Tons per acre Green weight 3 yrs.	Dry weight 1977	Dry weight 2 yrs.	Dry weight 3 yrs.
Trojan TXS85 (2X)	47.8	–	–	13.8	–	–	6.6	–	–
Renk RK3 (2X)	47.7	48.8	–	14.3	12.6	–	6.8	6.1	–
Pioneer 3958 (2X)	47.5	48.0	–	14.9	13.1	–	7.1	6.2	–
Michigan 280 (4X)	47.3	47.6	49.1	15.2	13.4	12.8	7.2	6.4	6.2
Stewart 288 (Sp.)	45.9	–	–	15.9	–	–	7.3	–	–
Northrup King PX20 (2X)	45.8	–	–	15.7	–	–	7.2	–	–
Lowe LSX14 (2X)	45.1	–	–	11.8	–	–	5.3	–	–
Michigan 333-3X (3X)	45.0	43.1	44.9	16.0	15.0	14.0	7.2	6.5	6.3
Cargill 810 (2X)	43.8	–	–	16.2	–	–	7.1	–	–
Super Crost 1692 (2X)	43.2	40.1	40.5	17.4	15.8	15.1	7.5	6.4	6.1
Pride 2206 (2X)	42.9	–	–	17.4	–	–	7.5	–	–
Blaney B302 (2X)	42.3	–	–	17.1	–	–	7.2	–	–
Michigan 3093 (3X)	42.1	42.2	43.9	17.3	15.6	14.6	7.3	6.6	6.4
Funk G-4040 (2X)	41.9	42.3	44.8	16.0	14.1	13.4	6.7	5.9	5.9
Funk G-4252 (3X)	41.9	40.1	40.0	16.4	16.1	16.0	6.9	6.5	6.4
Jacques JX62 (2X)	41.6	–	–	17.2	–	–	7.1	–	–
Wolverine W128 (2X)	41.5	39.1	41.2	13.5	13.8	13.5	5.6	5.4	5.5
Pioneer 3965 (3X)	41.1	39.1	40.9	17.5	15.1	14.5	7.2	5.9	5.9
Migro M-0101 (2X)	41.1	39.2	41.0	17.9	16.7	15.5	7.3	6.5	6.3
Trojan TXS94 (2X)	40.7	41.5	43.1	18.8	16.4	15.1	7.7	6.8	6.5
Funk G-4195 (3X)	40.4	38.8	39.7	19.1	16.3	15.7	7.7	6.4	6.2
Stewart 290 (Sp.)	40.4	42.0	–	18.8	16.6	–	7.6	6.9	–
Cargill 825 (2X)	40.2	41.1	–	18.9	15.4	–	7.6	6.3	–
Wolverine W166 (2X)	40.1	38.0	38.0	16.0	16.3	16.1	6.4	6.2	6.1
DeKalb XL12 (2X)	40.1	–	–	18.7	–	–	7.5	–	–
Asgrow RX40 (2X)	39.9	–	–	16.8	–	–	6.7	–	–
Anderson 3W80 (3X)	39.9	–	–	17.3	–	–	6.9	–	–
Asgrow RX2222 (2X)	39.3	–	–	16.1	–	–	6.3	–	–
Golden Harvest H-2350 (2X)	39.3	–	–	18.0	–	–	7.1	–	–
Michigan 3102 (2X)	39.2	38.9	40.8	20.1	18.0	16.4	7.9	7.0	6.6
Garno S-82 (2X)	38.5	37.4	–	21.4	16.9	–	8.2	6.3	–
Garno S-89 (2X)	38.4	–	–	21.5	–	–	8.3	–	–
Renk R95 (3X)	38.2	37.9	–	16.8	16.3	–	6.4	6.2	–
DeKalb XL16 (2X)	38.1	–	–	22.8	–	–	8.7	–	–
Blaney EX7305 (2X)	38.0	38.1	38.4	19.9	17.9	16.6	7.6	6.8	6.4
Funk G-5191 (4X)	37.8	39.5	–	21.5	16.3	–	8.0	6.3	–
Northrup King PX15 (2X)	37.7	–	–	19.4	–	–	7.3	–	–
Migro M-0105 (2X)	37.5	–	–	23.4	–	–	8.8	–	–
Michigan 4122 (2X)	37.5	36.7	36.7	22.9	21.1	20.2	8.6	7.7	7.4
Warwick TX20 (3X)	37.4	–	–	16.8	–	–	6.4	–	–
Trojan TXS99 (2X)	37.4	37.8	37.9	19.8	17.1	16.2	7.4	6.4	6.1
Super Crost 2350 (2X)	37.3	34.7	–	17.0	16.5	–	6.3	5.7	–
Funk G-5048 (4X)	37.1	–	–	17.2	–	–	6.2	–	–
Gutwein 08 (2X)	37.0	37.8	38.8	19.1	17.7	16.2	7.0	6.6	6.2
Michigan 410-2X (2X)	37.0	36.9	37.2	20.3	19.3	19.6	7.5	7.1	7.0
Funk G-4141 (2X)	37.0	38.7	39.1	21.0	17.1	16.6	7.8	6.6	6.4
Lowe LSX101 (2X)	36.9	–	–	18.1	–	–	6.7	–	–
Voris 2372 (2X)	36.9	–	–	22.3	–	–	8.1	–	–
Gutwein 22 (2X)	36.9	37.7	–	23.1	19.5	–	8.5	7.3	–
Northrup King PX32 (2X)	36.9	–	–	20.0	–	–	7.4	–	–
Michigan 3953 (3X)	36.9	–	–	21.4	–	–	7.9	–	–
Gutwein 112 (3X)	36.6	–	–	22.1	–	–	8.1	–	–
Voris 2352 (2X)	36.5	–	–	21.1	–	–	7.7	–	–
Trojan TX92 (3X)	36.4	–	–	18.1	–	–	6.6	–	–
Warwick TX27 (3X)	36.3	–	–	17.7	–	–	6.4	–	–

(Continued)

Table 15. (Continued)

Hybrid (Brand–Variety)	% Dry matter 1977	% Dry matter 2 yrs.	% Dry matter 3 yrs.	Tons per acre Green weight 1977	Tons per acre Green weight 2 yrs.	Tons per acre Green weight 3 yrs.	Dry weight 1977	Dry weight 2 yrs.	Dry weight 3 yrs.
Blaney B402 (2X)	35.8	–	–	19.8	–	–	7.1	–	–
Asgrow RX53 (2X)	35.7	–	–	24.8	–	–	8.9	–	–
Voris X380 (2X)	35.7	–	–	21.7	–	–	7.7	–	–
Michigan 407-2X (2X)	35.6	36.3	37.0	23.0	20.3	19.1	8.2	7.3	7.0
Pride 2264 (2X)	35.6	–	–	21.7	–	–	7.6	–	–
Trojan TXS102 (2X)	35.4	35.6	35.8	21.4	19.5	19.0	7.6	6.9	6.8
Golden Harvest H-2340 (2X)	35.3	–	–	23.8	–	–	8.2	–	–
Pioneer 3780 (2X)	35.3	35.5	35.7	22.1	20.1	19.6	7.8	7.1	7.0
Pioneer 3901 (2X)	35.2	–	–	25.6	–	–	9.0	–	–
Funk G4444 (2X)	35.1	35.1	35.3	25.1	21.7	20.2	8.8	7.6	7.1
Renk RK44 (2X)	35.1	–	–	24.1	–	–	8.5	–	–
Super Crost S27 (2X)	35.0	35.9	36.0	26.0	20.6	19.5	9.1	7.4	7.0
P-A-G SX189 (2X)	35.0	–	–	22.6	–	–	7.9	–	–
Pickseed 185 (Sp.)	35.0	38.8	–	17.8	16.0	–	6.2	6.1	–
Funk G-4272 (3X)	34.9	–	–	23.6	–	–	8.2	–	–
Pickseed XR44 (2X)	34.8	34.1	–	23.9	20.3	–	8.4	7.0	–
Northrup King PX48 (2X)	34.8	–	–	23.7	–	–	8.2	–	–
Anderson AX-3 (Sp.)	34.7	–	–	19.9	–	–	6.9	–	–
Northrup King PX529 (3X)	34.6	–	–	25.1	–	–	8.7	–	–
Michigan 5802 (2X)	34.5	34.3	34.3	25.2	22.2	21.6	8.7	7.6	7.4
P-A-G SX210 (2X)	34.5	–	–	24.1	–	–	8.3	–	–
Jacques JX122A (2X)	34.4	–	–	25.9	–	–	8.9	–	–
Michigan 5443 (3X)	34.3	34.7	35.2	23.9	21.2	20.1	8.2	7.3	7.0
Northrup King PX34 (2X)	34.3	–	–	25.6	–	–	8.8	–	–
Pioneer 3535 (2X)	34.2	32.4	32.3	21.9	20.5	20.0	7.5	6.7	6.5
Migro M-2022X (2X)	34.2	–	–	23.1	–	–	7.9	–	–
Funk G-4408 (2X)	34.2	–	–	26.0	–	–	8.9	–	–
Funk G-4321A (2X)	34.1	34.2	–	22.8	21.1	–	7.8	7.2	–
Acco U334 (3X)	34.0	34.0	–	24.1	19.0	–	8.2	6.4	–
Golden Harvest H-2370 (2X)	34.0	35.5	–	20.6	17.7	–	7.0	6.2	–
Michigan 575-2X (2X)	34.0	34.1	34.6	24.4	21.1	20.1	8.3	7.2	6.9
P-A-G SX177 (2X)	33.9	35.4	34.9	24.3	21.6	19.8	8.2	7.6	6.9
DeKalb XL42 (2X)	33.8	–	–	23.4	–	–	7.9	–	–
Anderson SSA (2X)	33.3	–	–	21.2	–	–	7.1	–	–
Amcorn 4010 (2X)	33.1	–	–	20.5	–	–	6.8	–	–
Northrup King PX46 (2X)	33.0	–	–	24.0	–	–	7.9	–	–
Gutwein 10A (2X)	32.9	34.8	35.7	26.5	22.1	20.4	8.8	7.6	7.2
Amcorn 4100 (2X)	32.7	–	–	21.1	–	–	6.9	–	–
Amcorn 7300 (2X)	32.6	–	–	21.1	–	–	6.8	–	–

(Continued)

Table 15. (Continued)

Hybrid (Brand–Variety)	% Dry matter 1977	% Dry matter 2 yrs.	% Dry matter 3 yrs.	Tons per acre Green weight 1977	Tons per acre Green weight 2 yrs.	Tons per acre Green weight 3 yrs.	Dry weight 1977	Dry weight 2 yrs.	Dry weight 3 yrs.
Migro M-0301 (2X)	32.5	31.1	–	25.8	21.4	–	8.3	6.6	–
Blaney B605-WX (2X)	32.3	33.7	–	24.0	21.1	–	7.8	7.1	–
Amcorn 7480 (2X)	32.3	–	–	25.2	–	–	8.1	–	–
Pioneer 3591 (Sp.)	32.0	–	–	23.9	–	–	7.7	–	–
Gutwein 46B (2X)	31.7	–	–	25.4	–	–	8.0	–	–
Pioneer 3709 (MSX)	31.6	32.9	–	24.1	22.0	–	7.6	7.2	–
Migro M-3020 (4X)	31.3	32.0	–	28.5	23.9	–	8.9	7.6	–
Super Crost 2470 (2X)	30.9	30.7	–	25.8	23.3	–	8.0	7.2	–
Golden Harvest Exp. 377 (2X)	30.4	–	–	28.7	–	–	8.7	–	–
Migro M-2018X (2X)	30.0	–	–	28.5	–	–	8.6	–	–
Blaney B606E (2X)	29.7	–	–	25.3	–	–	7.5	–	–
Super Crost 2890 (2X)	29.7	30.2	–	26.7	23.3	–	7.9	7.0	–
Golden Harvest H-2500 (2X)	29.5	29.1	29.0	27.8	22.9	22.3	8.2	6.7	6.5
Golden Harvest H-2450 (2X)	29.3	30.4	30.4	28.3	22.0	20.3	8.3	6.6	6.1
Acco UC3301A (2X)	29.0	–	–	30.7	–	–	8.9	–	–
P-A-G SX397 (2X)	27.0	–	–	33.2	–	–	8.9	–	–
Wolverine W174 (2X)	26.8	27.5	29.8	28.5	21.8	21.2	7.6	6.0	6.3
Average	36.6	37.3	37.9	21.5	18.3	17.5	7.8	6.7	6.5
Range	26.8 to 47.8	27.5 to 48.8	29.0 to 49.1	11.8 to 33.2	12.6 to 23.9	12.8 to 22.3	5.3 to 9.1	5.4 to 7.7	5.5 to 7.4
Least significant difference	2.1	1.5	1.1	1.8	1.3	1.0	0.6	0.5	0.5

	1977	1976	1975
Planted	April 30	May 13	April 30
Harvested	September 12	September 7	September 2
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Corn	Corn	Corn
Population	20,700	19,400	20,000
Rows	30"	30"	30"
Fertilizer	182-92-202	38-82-12	157-82-132
Soil Test: pH	7.2	7.4	7.0
P	83 (high)	68 (high)	45 (medium)
K	288 (high)	263 (high)	194 (medium)

Farm Cooperator: William McCrea, Bad Axe
Extension Livestock Agent: Lee Warschefsky, Bad Axe

Table 16. **NORTH CENTRAL MICHIGAN** Zone 3
MONTCALM COUNTY TRIAL – IRRIGATED vs. NOT IRRIGATED
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture 1977	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1977 Irrig.	1977 Not Irrig.	2 years Irrig.	2 years Not Irrig.	3 years Irrig.	3 years Not Irrig.	% Stalk lodging 1977 Irrig.	1977 Not Irrig.	2 years Irrig.	2 years Not Irrig.	3 years Irrig.	3 years Not Irrig.
Michigan 333-3X (3X)	24.8	22	22	109.4	66.5	127	73	133	87	1.5	0.0	2	2	2	4
Michigan 280 (4X)	25.0	22	22	100.7	62.3	117	60	119	71	9.6	2.3	8	11	9	11
Renk RK3 (2X)	25.7	–	–	104.7	62.1	–	–	–	–	3.8	4.5	–	–	–	–
Northrup King PX20 (2X)	26.0	22	22	108.4	60.0	118	59	124	77	14.5	2.3	8	3	8	4
Michigan 3093 (3X)	26.2	23	23	113.3	63.3	132	70	141	88	2.3	1.4	3	6	3	4
Northrup King PX15 (2X)	26.2	–	–	117.4	70.3	–	–	–	–	5.0	7.5	–	–	–	–
Funk G-5191 (4X)	26.5	23	–	94.7	57.6	116	64	–	–	7.5	3.2	8	5	–	–
Pride 3315 (2X)	26.8	24	–	112.8	66.9	126	63	–	–	8.0	0.7	4	1	–	–
Pioneer 3965 (3X)	26.8	–	–	108.5	63.5	–	–	–	–	0.0	0.0	–	–	–	–
Migro M-0101 (2X)	27.0	23	23	110.5	70.0	125	68	130	82	10.4	5.2	7	8	6	7
Funk G-4195 (3X)	27.2	24	23	99.9	61.4	124	63	127	78	2.5	5.0	4	16	5	12
ADI 232 (2X)	27.4	–	–	117.0	55.4	–	–	–	–	0.0	3.2	–	–	–	–
Blaney B302 (2X)	27.7	25	24	117.7	69.1	136	71	138	85	3.8	0.0	5	10	3	8
Pride 2206 (2X)	27.8	–	–	120.5	66.3	–	–	–	–	9.8	1.6	–	–	–	–
Funk G-4141 (2X)	27.9	25	24	129.4	70.3	141	73	146	87	6.9	0.8	6	7	4	5
Michigan 3102 (2X)	28.0	25	25	125.8	70.6	142	73	147	93	3.3	0.8	3	5	3	4
Super Crost S18 (2X)	28.0	–	–	108.7	64.0	–	–	–	–	1.7	0.0	–	–	–	–
Blaney B303A (2X)	28.0	25	–	110.3	61.7	136	66	–	–	9.2	5.4	10	12	–	–
Funk G-4252 (3X)	28.5	25	25	106.2	62.8	128	68	133	83	4.4	0.0	7	5	6	4
Pickseed 185 (Sp.)	28.6	23	–	110.3	60.4	121	55	–	–	10.4	3.8	11	17	–	–
Michigan 3953 (3X)	28.6	–	–	129.1	69.6	–	–	–	–	3.0	3.4	–	–	–	–
ADI 195 (2X)	28.9	–	–	89.4	55.5	–	–	–	–	6.6	1.6	–	–	–	–
Super Crost 1692 (2X)	29.0	26	25	101.6	68.3	125	68	127	80	0.0	0.0	1	5	2	5
*†Pioneer 3901 (2X)	29.1	–	–	148.0	82.5	–	–	–	–	3.8	0.0	–	–	–	–
Blaney B305-WX (2X)	29.1	–	–	96.9	51.5	–	–	–	–	3.4	3.6	–	–	–	–

(Continued)

Table 16. **NORTH CENTRAL MICHIGAN** Zone 3
MONTCALM COUNTY TRIAL – IRRIGATED vs. NOT IRRIGATED
One, Two, Three Year Averages – 1977, 1976, 1975

Amcorn 4010 (2X)	29.2	–	–	89.2	56.5	–	–	–	–	3.4	0.0	–	–	–	–
Pioneer 3958 (2X)	29.2	26	25	108.0	56.1	129	65	139	86	3.9	0.8	3	5	3	4
Migro M-0105 (2X)	29.4	–	–	122.4	73.8	–	–	–	–	13.5	3.7	–	–	–	–
Golden Harvest H-2370 (2X)	29.4	26	–	119.8	64.8	137	68	–	–	19.1	6.7	12	10	–	–
*Michigan 4122 (2X)	29.4	26	26	136.9	75.3	158	84	165	103	3.2	3.6	3	7	3	5
Northrup King PX32 (2X)	29.6	26	–	136.6	72.3	154	76	159	96	9.6	0.0	5	7	5	6
*Super Crost 2350 (2X)	29.7	26	–	113.0	73.8	138	74	–	–	6.1	0.0	4	5	–	–
Funk G-4272 (3X)	29.8	–	–	115.9	62.8	–	–	–	–	5.8	1.5	–	–	–	–
Amcorn 4100 (2X)	29.8	27	27	119.4	73.7	139	75	139	87	6.2	6.3	7	10	7	8
Blaney B443 (3X)	30.0	26	26	117.7	73.5	138	75	144	91	0.7	0.0	4	10	4	7
Blaney B506 (2X)	30.0	–	–	132.3	69.1	–	–	–	–	9.3	2.3	–	–	–	–
*†Michigan 407-2X (2X)	30.1	27	27	142.5	84.0	160	82	163	101	2.7	0.0	2	6	2	4
Northrup King PX34 (2X)	30.4	–	–	131.2	71.3	–	–	–	–	2.1	0.0	–	–	–	–
Blaney EX7305 (2X)	30.6	27	27	112.8	63.6	141	71	146	92	0.0	0.0	2	6	2	6
*†Pioneer 3780 (2X)	30.6	27	28	150.8	88.2	165	85	165	101	1.4	0.0	3	8	3	7
*†Voris 2372 (2X)	30.7	–	–	143.4	82.2	–	–	–	–	3.7	0.0	–	–	–	–
Pride 4404 (2X)	30.9	27	27	126.3	69.1	148	72	155	91	1.5	0.0	2	4	2	3
Wolverine W166 (2X)	31.0	27	27	122.3	66.1	144	67	156	91	1.5	0.8	3	3	4	5
Michigan 410-2X (2X)	31.0	28	27	130.5	77.4	150	78	153	96	5.3	0.0	6	5	6	5
Trojan TXS105A (2X)	31.2	–	–	129.7	79.0	–	–	–	–	1.6	0.7	–	–	–	–
Migro M-2022X (2X)	31.3	–	–	134.1	79.1	–	–	–	–	3.5	0.0	–	–	–	–
Michigan 5443 (3X)	31.3	28	28	128.8	76.8	149	77	155	96	5.8	2.3	4	8	4	7
*†Asgro RX58 (2X)	31.4	28	–	145.2	82.1	158	79	–	–	6.4	0.0	5	8	–	–
*†Pickseed XR44 (2X)	31.4	29	–	136.7	80.1	158	85	–	–	3.8	2.3	3	8	–	–
*†Funk G-4408	31.5	–	–	136.8	86.5	–	–	–	–	0.8	0.0	–	–	–	–
Michigan 5802 (2X)	31.5	29	29	132.7	79.0	155	84	166	106	3.0	2.8	3	9	2	6
*†Pioneer 3591 (Sp.)	31.6	–	–	139.1	84.8	–	–	–	–	0.0	0.0	–	–	–	–
Golden Harvest H-2450 (2X)	31.6	28	–	125.2	77.8	148	79	–	–	3.1	6.6	2	14	–	–
Funk G-4444 (2X)	31.6	28	28	130.2	77.1	157	78	160	97	5.4	0.7	3	11	3	8
Acco UC2301 (2X)	31.6	27	26	122.1	67.3	142	72	147	92	3.5	3.8	3	11	4	13
*†Migro M-2018X (2X)	31.7	–	–	142.3	84.5	–	–	–	–	2.2	0.0	–	–	–	–
*†Northrup King PX48 (2X)	31.7	–	–	143.5	87.8	–	–	–	–	5.9	0.8	–	–	–	–
*†Pioneer 3535 (2X)	31.8	30	30	145.8	87.4	157	81	171	106	0.0	0.0	1	1	1	1
Voris X380 (2X)	31.8	–	–	120.5	78.3	–	–	–	–	8.4	2.3	–	–	–	–
Michigan 575-2X (2X)	31.8	30	29	130.4	75.0	150	76	156	95	3.0	0.0	3	3	4	4
Amcorn 7480 (2X)	32.0	–	–	131.0	77.7	–	–	–	–	0.0	0.8	–	–	–	–
*†Acco UC3002 (2X)	32.0	–	–	142.1	81.8	–	–	–	–	2.8	0.0	–	–	–	–
Northrup King PX529 (3X)	32.0	–	–	121.2	76.1	–	–	–	–	0.7	0.0	–	–	–	–
†Super Crost S27 (2X)	32.1	29	29	130.0	81.4	155	84	157	103	0.0	1.6	1	11	1	9
Amcorn 7300 (2X)	32.1	27	27	131.1	77.9	151	81	149	95	0.8	1.5	1	13	3	11
*†ADI 197 (2X)	32.2	–	–	148.9	86.6	–	–	–	–	4.5	0.0	–	–	–	–
Renk RK66 (2X)	32.2	–	–	127.6	72.8	–	–	–	–	1.5	0.0	–	–	–	–
Funk G-4321A (2X)	32.3	30	–	129.4	78.3	151	79	–	–	0.0	0.0	0	9	–	–
Blaney B606 (2X)	32.4	29	28	121.0	76.7	146	84	156	104	0.9	0.0	1	2	2	2
*Migro M-0301 (2X)	33.4	31	–	142.7	76.5	158	82	–	–	2.3	1.6	3	4	–	–
*†Acco UC3301 (2X)	33.5	31	31	141.7	80.0	158	80	174	31	2.2	2.4	2	10	2	7
*†Northrup King PX46 (2X)	33.6	–	–	140.4	80.5	–	–	–	–	2.2	0.7	–	–	–	–
*ADI 315 (2X)	34.1	–	–	136.5	75.5	–	–	–	–	0.0	0.0	–	–	–	–
Average	30.0	26	26	124.7	72.9	142	74	148	92	4.1	1.5	4	7	4	6
Range	24.8 to 34.1	22 to 31	22 to 31	89.4 to 158.1	55.5 to 88.2	116 to 165	55 to 85	119 to 174	71 to 106	0.0 to 19.1	0 to 7.5	0 to 12	1 to 17	1 to 9	1 to 13
Least significant difference	1.5	1.0	0.7	11.7	7.0	8	6	5	5						

**Significantly better than average yield, irrigated, 1977.*
†Significantly better than average yield, not irrigated, 1977.

	1977	1976	1975
Planted	April 26	May 5	May 7
Harvested	October 28	October 29	October 15
Soil Type	Montcalm sandy loam	Montcalm sandy loam	Montcalm sandy loam
Previous Crop	Corn	Clover	Clover
Population	20,500	19,300	20,700
Rows	30"	30"	30"
Fertilizer	238-90-90	336-156-156	255-110-110
Irrigation	13 inches	12 inches	9 inches
Soil Test: pH	6.7	6.7	6.5
P	391 (very high)	403 (very high)	268 (very high)
K	174 (medium)	163 (medium)	257 (high)

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

Table 17. NORTH CENTRAL MICHIGAN Zone 3
MASON – OCEANA COUNTIES
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Funk G-4040 (2X)	22.7	22	21	78.8	75	94	0.0	0	0
Trojan TX85 (3X)	23.1	–	–	82.4	–	–	0.0	–	–
Michigan 2443 (3X)	23.5	–	–	100.9	–	–	0.0	–	–
Funk G-5048 (4X)	23.8	23	22	75.5	78	95	0.8	0	2
Northrup King PX20 (2X)	23.8	23	22	109.8	95	108	0.0	0	0
Michigan 280 (4X)	23.8	22	21	108.8	95	103	0.0	0	0
Funk G-4082 (3X)	24.5	24	22	82.2	77	85	0.0	0	1
Super Crost 1103 (3X)	24.5	24	–	88.5	79	–	0.0	1	–
Northrup King PX443 (3X)	24.6	–	–	107.5	–	–	1.7	–	–
Pride R144 (3X)	25.0	23	–	94.0	83	–	0.0	0	–
Blaney B303A (2X)	25.1	24	–	115.8	106	–	0.8	0	–
Pioneer 3958 (2X)	26.0	24	23	116.0	95	104	0.0	0	1
Michigan 3093 (3X)	26.1	24	–	108.7	100	–	0.0	0	–
Pioneer 3965 (3X)	26.1	–	–	118.1	–	–	0.0	–	–
*Michigan 333-3X (3X)	26.2	25	23	127.9	107	116	0.0	0	0
Pride 2206 (2X)	26.4	–	–	116.1	–	–	0.0	–	–
Trojan TXS94 (2X)	26.7	26	–	116.0	101	–	2.5	1	–
*Pioneer 3901 (2X)	27.2	–	–	129.7	–	–	0.0	–	–
Funk G-5191 (4X)	27.3	24	–	109.0	94	–	0.0	1	–
*Funk G-4195 (3X)	27.3	24	23	123.5	107	117	3.6	2	2
Trojan TX90 (3X)	27.5	–	–	97.9	–	–	1.7	–	–
Wolverine 24 (4X)	27.6	25	23	91.4	89	101	0.0	0	1
Acco U322 (3X)	28.1	–	–	101.9	–	–	0.0	–	–
Michigan 3102 (2X)	28.4	25	24	114.2	103	116	0.8	0	1
Super Crost 1692 (2X)	28.5	28	–	115.6	96	–	0.0	0	–
Blaney B305-WX (2X)	28.5	–	–	97.9	–	–	0.0	–	–
Wolverine W120 (2X)	28.5	26	24	96.9	92	100	0.0	0	0
Super Crost S14A (2X)	28.7	26	–	97.6	88	–	1.6	1	–
*Funk G-4141 (2X)	28.7	25	24	120.9	104	117	0.0	0	1
Blaney B220 (3X)	28.8	–	–	94.7	–	–	2.7	–	–
Migro M-0101 (2X)	28.9	25	24	104.6	99	103	0.0	0	1
*Michigan 3953 (3X)	29.6	–	–	133.6	–	–	0.0	–	–
*Blaney B443 (3X)	29.9	–	–	122.9	–	–	1.5	–	–
Funk G-4252 (3X)	29.9	27	25	113.5	107	116	2.8	1	1
Trojan TX92 (3X)	30.2	28	–	95.2	87	–	0.0	0	–
Trojan TX100 (3X)	30.4	–	–	117.6	–	–	0.0	–	–
Pride 3315 (2X)	30.6	27	–	101.6	98	–	0.0	0	–
*Acco UC2301 (2X)	31.0	28	26	143.6	118	127	0.0	1	1
*Blaney B501A (2X)	31.3	28	28	121.0	109	120	0.8	1	1
Migro M-0105 (2X)	31.6	–	–	118.7	–	–	0.0	–	–
Blaney EX7305 (2X)	31.7	29	27	92.0	91	108	0.0	0	0
Michigan 4122 (2X)	31.7	29	28	118.4	102	117	0.0	0	0
*Michigan 407-2X (2X)	31.8	29	27	128.5	113	122	0.8	1	1
*Migro M-2022X (2X)	32.0	–	–	140.9	–	–	2.5	–	–
Super Crost 2350 (2X)	32.1	29	–	111.5	106	–	0.0	0	–
*Blaney B606E (2X)	32.2	–	–	127.0	–	–	0.0	–	–
*Pioneer 3780 (2X)	32.3	30	29	124.0	105	117	0.8	0	1
Michigan 5443 (3X)	32.3	30	28	119.4	105	117	0.8	1	1
Michigan 410-2X (2X)	32.5	29	27	117.3	103	116	0.0	0	1
Migro M-2018X (2X)	34.0	–	–	109.8	–	–	0.0	–	–
Average	28.3	30	25	110.3	97	110	0.5	0.4	1
Range	22.7 to 34.0	22 to 30	21 to 29	75.5 to 143.6	75 to 118	85 to 127	0.0 to 3.6	0 to 2	0 to 3
Least significant difference	1.5	1.0	0.7	10.4	7	5			

Significantly better than average yield in 1977.

	1977	1976	1975
Planted	May 11	May 12	May 14
Harvested	October 25	October 26	October 28
Soil Type	Iosco sandy loam	Iosco sandy loam	Pewamo loam
Previous Crop	Corn	Corn	Corn
Population	20,100	20,000	20,300
Rows	30"	30"	30"
Fertilizer	130-60-130	145-45-98	75-80-110
Soil Test: pH	6.4	6.5	6.5
P	68 (high)	125 (very high)	60 (medium high)
K	120 (low)	235 (high)	154 (low)

Farm Cooperators: Robert and August Ohse, Custer (1977, 1976); Richard Kessler, Sr., Montague (1975)
County Extension Directors: Dean Raven, Scottville (1977, 1976); Ed Strong, Hart (1975)

Table 18. NORTHERN MICHIGAN Zone 4
GRAND TRAVERSE COUNTY TRIAL
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Pride R107 (3X)	21.7	21	–	72.2	79	–	1.5	2	–
Stewart 2501 (2X)	21.9	21	20	92.6	80	87	1.5	4	3
Stewart 255 (2X)	22.1	22	21	92.0	85	90	2.3	2	2
Pickseed 2522 (2X)	22.2	–	–	87.2	–	–	0.0	–	–
Stewart 278 (2X)	22.3	–	–	84.7	–	–	3.1	–	–
Michigan 2013 (3X)	22.3	21	21	84.2	86	90	1.7	3	4
Pride 1128 (2X)	23.0	–	–	80.2	–	–	1.5	–	–
Funk G-4077 (3X)	23.0	–	–	74.9	–	–	4.5	–	–
Michigan 200 (4X)	23.1	22	21	88.9	87	89	0.0	2	2
Pickseed 2277 (2X)	23.1	–	–	80.9	–	–	0.8	–	–
Super Crost 1210 (2X)	23.1	22	–	91.2	90	–	1.5	2	–
Cardinal SX85 (Sp.)	23.3	–	–	78.6	–	–	3.2	–	–
Northrup King PX414 (3X)	23.3	–	–	83.2	–	–	2.3	–	–
Super Crost 1103 (3X)	23.5	24	23	93.6	92	92	0.8	2	2
Michigan 280 (4X)	23.8	23	22	89.9	91	95	2.6	3	3
Pickseed 2262 (2X)	24.1	–	–	98.9	–	–	4.2	–	–
Pride R144 (3X)	24.2	25	25	79.9	88	96	0.0	0	1
Wolverine 24 (4X)	24.2	25	25	83.2	87	91	0.8	2	2
Cardinal SX95A (Sp.)	24.2	–	–	81.4	–	–	0.0	–	–
Northrup King PX20 (2X)	24.3	–	–	93.8	–	–	1.7	–	–
Pickseed 4424 (2X)	24.5	–	–	94.3	–	–	0.8	–	–
Cardinal SX93 (2X)	24.7	–	–	82.5	–	–	0.0	–	–
Funk G-5191 (4X)	24.8	24	–	85.4	89	–	1.5	1	–
Northrup King PX7 (2X)	24.8	–	–	78.4	–	–	2.2	–	–
*Michigan 2443 (3X)	24.8	–	–	101.8	–	–	0.8	–	–
Funk G-4085 (3X)	24.8	–	–	79.8	–	–	3.7	–	–
Funk G-5048 (4X)	24.9	–	–	84.9	–	–	0.0	–	–
*Trojan TX90 (3X)	25.1	–	–	109.9	–	–	0.0	–	–
Wolverine W120 (2X)	25.4	25	24	81.8	84	89	0.0	0	0
Northrup King PX443 (3X)	25.5	–	–	95.8	–	–	3.1	–	–
*Funk G-4195 (3X)	25.7	–	–	109.4	–	–	2.4	–	–
*Super Crost S14A (2X)	25.7	27	26	104.4	93	92	0.0	0	0
Anderson 3W85 (3X)	26.4	–	–	85.8	–	–	0.8	–	–
Michigan 3093 (3X)	26.6	26	–	99.6	100	–	2.3	2	–
*Pioneer 3965 (3X)	26.9	26	25	108.9	103	105	0.0	0	0
*Michigan 333-3X (3X)	27.0	27	26	106.8	102	106	0.0	0	1
*Super Crost 1692 (3X)	27.2	29	–	104.2	99	–	0.0	0	–
Anderson AX-3 (Sp.)	27.5	–	–	87.6	–	–	0.0	–	–
Anderson A-85 (4X)	27.6	–	–	96.1	–	–	0.0	–	–
*Northrup King PX15 (2X)	27.9	–	–	111.2	–	–	0.0	–	–
Anderson 3W80 (3X)	28.1	–	–	89.5	–	–	0.8	–	–
Michigan 3102 (2X)	28.5	28	27	98.9	97	105	0.0	1	1
*Pioneer 3901 (2X)	29.4	–	–	112.2	–	–	0.0	–	–
*Anderson SSA (2X)	31.8	–	–	102.0	–	–	0.8	–	–
Average	25.0	24	24	91.5	91	94	1.2	2	2
Range	21.7 to 31.8	21 to 29	20 to 27	72.2 to 112.2	79 to 102	87 to 106	0.0 to 4.5	0 to 4	0 to 4
Least significant difference	1.4	1.0	0.7	8.7	6	5			

Significantly better than average yield in 1977.

	1977	1976	1975
Planted	May 12	May 18	May 16
Harvested	October 27	October 28	October 30
Soil Type	Coventry-Newaygo loam	Coventry-Newaygo loam	Coventry-Newaygo loam
Previous Crop	Corn	Corn	Corn
Population	19,400	19,400	19,600
Rows	38"	38"	38"
Fertilizer	132-57-57	100-80-40, manure	118-70-35
Soil Test: pH	6.7	7.0	6.6
P	358 (very high)	320 (very high)	185 (very high)
K	336 (very high)	297 (high)	279 (high)

Farm Cooperator: George Svec, Buckley
County Extension Director: George McManus, Traverse City

Table 19. **NORTHERN MICHIGAN** Zone 4
MISSAUKEE COUNTY TRIAL – SILAGE
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Michigan 2013 (3X)	25.3	27.8	29.9	12.3	13.0	13.4	3.1	3.6	4.0
Pride 1128 (2X)	24.1	–	–	16.9	–	–	4.1	–	–
Michigan 2443 (3X)	23.8	–	–	18.1	–	–	4.3	–	–
Pickseed 4424 (2X)	22.2	–	–	15.1	–	–	3.4	–	–
Michigan 200 (4X)	22.1	24.6	25.4	14.9	14.8	16.6	3.3	3.6	4.2
Michigan 280 (4X)	22.0	24.6	24.9	16.8	17.6	19.5	3.7	4.3	4.9
DeKalb XL311 (3X)	21.6	–	–	16.2	–	–	3.5	–	–
Pickseed 2522 (2X)	21.5	–	–	11.8	–	–	2.5	–	–
P-A-G SX121 (2X)	21.4	–	–	15.1	–	–	3.3	–	–
P-A-G 145 (2X)	21.2	–	–	17.6	–	–	3.7	–	–
Jacques JX60 (2X)	21.1	–	–	18.7	–	–	3.9	–	–
Stewart 255 (2X)	21.0	–	–	18.0	–	–	3.8	–	–
Pickseed 2262 (2X)	21.0	–	–	15.1	–	–	3.2	–	–
Super Crost 1692 (2X)	20.8	22.5	–	14.7	16.7	–	3.1	3.8	–
P-A-G SX177 (2X)	20.7	–	–	18.2	–	–	3.8	–	–
Pickseed 2277 (2X)	20.7	–	–	17.3	–	–	3.6	–	–
Funk G-4085 (3X)	20.6	–	–	13.9	–	–	2.9	–	–
Golden Harvest H-2220 (4X)	20.5	–	–	16.6	–	–	3.4	–	–
Pride R107 (3X)	20.5	–	–	15.2	–	–	3.1	–	–
Michigan 333-3X (3X)	20.5	–	–	17.1	–	–	3.5	–	–
Michigan 3093 (3X)	20.4	22.1	–	16.7	17.6	–	3.4	3.9	–
Jacques 907 (4X)	20.2	–	–	17.3	–	–	3.5	–	–
Jacques JX20 (2X)	20.0	21.9	–	14.8	15.4	–	3.0	3.4	–
Northrup King PX7 (2X)	20.0	–	–	16.6	–	–	3.3	–	–
Northrup King PX443 (3X)	20.0	–	–	19.0	–	–	3.8	–	–
Stewart 2501 (2X)	19.9	–	–	16.1	–	–	3.2	–	–
Northrup King PX414 (3X)	19.9	–	–	17.3	–	–	3.4	–	–
Stewart 278 (2X)	19.8	–	–	16.3	–	–	3.2	–	–
Pioneer 3965 (3X)	19.8	23.4	23.8	18.0	18.0	19.4	3.6	4.2	4.6
Pioneer 2975A (Sp.)	19.8	–	–	18.0	–	–	3.6	–	–
Super Crost S18 (2X)	19.7	–	–	15.1	–	–	3.0	–	–
Northrup King PX20 (2X)	19.5	–	–	17.2	–	–	3.3	–	–
Funk G-5048 (4X)	19.4	22.0	23.2	16.0	17.8	19.3	3.1	3.9	4.5
Funk G-4077 (3X)	19.3	–	–	14.5	–	–	2.8	–	–
Pioneer 2977 (3X)	19.2	–	–	13.7	–	–	2.6	–	–
Golden Harvest H-2355 (2X)	19.2	–	–	18.2	–	–	3.5	–	–
Golden Harvest H-2350 (2X)	19.2	–	–	16.1	–	–	3.1	–	–
Pioneer 3958 (2X)	18.9	22.4	23.3	18.2	18.1	19.8	3.4	4.0	4.6
Funk G-5191 (4X)	18.6	20.4	–	15.6	15.9	–	2.9	3.2	–
Funk G-4040 (2X)	18.5	21.7	22.6	16.0	16.7	19.5	2.9	3.6	4.4
Golden Harvest H-2340 (2X)	18.5	–	–	19.5	–	–	3.6	–	–
Michigan 3102 (2X)	18.5	20.4	21.4	18.9	18.6	21.0	3.5	3.8	4.5
Northrup King PX15 (2X)	18.0	–	–	20.2	–	–	3.6	–	–
Golden Harvest H-2370 (2X)	17.7	19.8	–	17.7	18.8	–	3.2	3.8	–
Golden Harvest H-2450 (2X)	16.1	–	–	19.3	–	–	3.1	–	–
Average	20.3	22.5	24.3	16.6	16.8	18.5	3.4	3.7	4.4
Range	25.3 to 16.1	19.8 to 27.8	21.4 to 29.9	11.8 to 20.2	13.0 to 18.8	13.4 to 21.0	2.5 to 4.3	3.2 to 4.3	4.0 to 4.9
Least significant difference	2.0	1.5	1.1	1.4	1.0	0.7	0.4	0.4	0.4

	1977	1976	1975
Planted	May 19	May 14	May 14
Harvested	September 13	September 9	September 1
Soil type	Kent silt loam	Kent silt loam	Kent silt loam
Previous crop	Corn	Corn	Corn
Population	19,200	20,100	20,800
Rows	30"	30"	30"
Fertilizer	141-64-128	141-64-128	133-32-136
Soil test: pH	6.4		
P	47 (medium)		
K	128 (low)		

Farm Cooperator: Robert DeBoer, Michigan State University, Lake City Experiment Station
County Extension Director: Vern Vande Pol, Lake City
Cooperator: Dr. L. O. Copeland, Crop and Soil Sciences, Michigan State University

Table 20. **NORTHERN MICHIGAN** Zone 4
ALPENA AND PRESQUE ISLE COUNTIES – GRAIN
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Warwick TX17 (3X)	26.5	27	27	66.2	69	81	16.3	15	15
Pride R107 (3X)	27.0	29	–	69.2	81	–	14.8	9	–
Funk G-4077 (3X)	27.4	28	–	70.1	74	–	20.7	14	–
Michigan 2013 (3X)	27.4	28	28	69.9	87	104	11.4	8	7
P-A-G SX111 (2X)	27.7	–	–	106.3	–	–	2.8	–	–
Voris 2262 (Sp.)	28.2	–	–	95.1	–	–	5.0	–	–
Pickseed 2277 (2X)	28.3	–	–	106.1	–	–	4.1	–	–
Michigan 200 (4X)	28.4	29	29	103.4	100	107	2.9	2	5
Warwick SL207 (2X)	28.6	30	30	104.4	106	112	8.9	5	5
*Pride 1128 (2X)	28.6	–	–	122.7	–	–	9.0	–	–
Payco 369 (4X)	28.8	–	–	117.2	–	–	2.8	–	–
Super Crost 1210 (2X)	28.9	30	–	105.2	99	–	10.6	5	–
*Asgrow RX29 (4X)	29.2	32	–	128.2	123	–	4.1	3	–
*Stewart 38 (3X)	29.3	–	–	121.8	–	–	6.2	–	–
Pickseed 2522 (2X)	29.7	30	–	79.3	92	–	10.4	6	–
Golden Harvest H-2220 (4X)	29.8	–	–	109.9	–	–	6.9	–	–
Michigan 280 (4X)	30.2	31	31	116.8	114	117	5.5	3	3
Pickseed 4424 (2X)	31.2	–	–	117.9	–	–	5.4	–	–
Super Crost 1103 (3X)	31.3	34	–	90.1	95	–	4.8	3	–
*Michigan 2443 (3X)	31.3	–	–	122.1	–	–	2.1	–	–
*Golden Harvest EX217 (2X)	32.6	–	–	127.6	–	–	1.4	–	–
Funk G-5048 (4X)	32.7	34	33	93.2	103	116	5.6	3	5
*Northrup King PX20 (2X)	33.0	–	–	122.0	–	–	0.7	–	–
Funk G-4085 (3X)	33.0	–	–	108.7	–	–	3.4	–	–
Warwick TX20 (3X)	33.2	37	35	115.6	107	113	2.1	1	3
Payco SX465 (2X)	33.6	35	–	108.7	105	–	0.7	0	–
Pioneer 3975A (Sp.)	34.0	–	–	115.2	–	–	0.0	–	–
Funk G-5191 (4X)	34.0	35	–	112.8	113	–	2.8	2	–
Payco SX350 (2X)	34.1	–	–	116.3	–	–	5.5	–	–
*Stewart 3701 (3X)	34.2	–	–	124.7	–	–	2.1	–	–
*Pickseed 2262 (2X)	34.7	–	–	129.3	–	–	6.2	–	–
Pioneer 3965 (3X)	34.8	36	36	115.0	105	115	1.4	1	0
Voris 2282 (Sp.)	34.9	–	–	105.7	–	–	1.4	–	–
Super Crost S14A (2X)	35.3	36	–	111.2	105	–	6.3	3	–
*DeKalb XL10 (2X)	35.3	–	–	123.8	–	–	5.6	–	–
Michigan 3093 (3X)	35.4	36	36	120.8	117	125	1.4	3	2
*Funk G-4141 (2X)	35.4	37	37	126.3	122	133	4.3	2	1
DeKalb XL12 (2X)	35.7	–	–	117.4	–	–	0.7	–	–
Michigan 333-3X (3X)	35.8	37	36	120.6	117	124	3.6	3	3
Pride R144 (2X)	36.0	38	35	108.8	111	118	4.1	2	1
*Anderson 3W80 (3X)	36.2	–	–	129.0	–	–	1.4	–	–
*Anderson 3W85 (3X)	36.3	–	–	122.5	–	–	0.7	–	–
Trojan TX90 (3X)	36.3	–	–	111.7	–	–	2.1	–	–
*Golden Harvest H-2340 (2X)	36.9	–	–	126.4	–	–	0.0	–	–
*Michigan 3102 (2X)	36.9	38	37	129.6	125	134	0.0	0	0
Anderson A-85 (4X)	37.0	–	–	106.6	–	–	6.9	–	–
*Golden Harvest H-2370 (2X)	37.9	39	–	134.9	128	–	2.1	2	–
Anderson SSA (2X)	41.1	–	–	118.7	–	–	1.4	–	–
Anderson AX-3 (Sp.)	41.3	–	–	97.2	–	–	4.2	–	–
*Pioneer 3780 (2X)	43.4	–	–	125.2	–	–	2.8	–	–
Average	33.2	33	33	110.8	104	115	4.7	4	4
Range	26.5 to 44.8	27 to 39	27 to 37	66.2 to 134.9	69 to 128	81 to 134	0.0 to 20.7	0 to 15	0 to 15
Least significant difference	1.6	1.0	0.7	10.4	7	5			

**Significantly better than average yield in 1977.*

	1977	1976	1975
Planted	May 13	May 15	May 15
Harvested	November 1	October 7	October 16
Soil Type	Onaway sandy loam	Onaway sandy loam	Onaway loam
Previous Crop	Corn	Wheat	Corn
Population	22,200	20,500	20,900
Rows	28"	28"	28"
Fertilizer	130-38-38	112-72-72, manure	20-80-80, manure
Soil Test: pH	7.3	6.6	
P	50 (medium)	53 (medium)	
K	152 (low)	176 (medium)	

Farm Cooperators: Robert Cornell, Posen (1977, 1976);
Louis and Leroy Woloszyk, Posen (1975)
County Extension Directors: A. H. Nickels, Alpena (1977, 1976);
Jay Poffenberger, Rogers City (1975)
Cooperator: Dr. L. O. Copeland, Crop and Soil Sciences, Michigan State University, East Lansing

Table 21. **NORTHERN MICHIGAN** Zone 4
ALPENA AND PRESQUE ISLE COUNTIES – SILAGE
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Michigan 2013 (3X)	28.4	31.5	32.3	17.6	16.7	17.5	5.0	5.2	5.6
Pride R107 (3X)	27.4	31.2	–	20.5	17.9	–	5.6	5.5	–
Asgrow RX29 (4X)	26.2	27.3	–	20.6	20.8	–	5.4	5.7	–
Michigan 200 (4X)	26.2	30.2	29.6	20.2	18.4	19.4	5.3	5.5	5.7
Pickseed 4424 (2X)	25.9	–	–	23.1	–	–	6.0	–	–
Michigan 280 (4X)	25.8	27.8	26.2	23.3	23.3	25.9	6.0	6.5	6.7
Golden Harvest Ex. 217 (2X)	25.8	–	–	24.5	–	–	6.3	–	–
Voris 2282 (Sp.)	25.6	–	–	21.3	–	–	5.5	–	–
Michigan 2443 (3X)	25.5	–	–	24.7	–	–	6.3	–	–
Super Crost S14A (2X)	25.5	27.0	–	21.0	19.3	–	5.3	5.2	–
Pickseed 2522 (2X)	25.4	27.6	–	20.6	21.3	–	5.2	5.8	–
Stewart 38 (3X)	25.2	–	–	27.9	–	–	7.0	–	–
Voris 2262 (Sp.)	24.9	–	–	18.1	–	–	4.5	–	–
Pride 1128 (2X)	24.9	–	–	28.5	–	–	7.1	–	–
P-A-G SX111 (2X)	24.5	–	–	24.7	–	–	6.1	–	–
DeKalb XL12 (2X)	24.5	–	–	23.0	–	–	5.6	–	–
Northrup King PX20 (2X)	24.3	–	–	28.7	–	–	7.0	–	–
Funk G-4077 (3X)	24.3	27.8	–	19.3	17.7	–	4.7	4.8	–
Warwick SL207 (2X)	24.2	26.0	26.1	21.0	19.4	21.5	5.1	5.0	5.5
Pickseed 2277 (2X)	24.2	–	–	24.5	–	–	5.9	–	–
DeKalb XL10 (2X)	24.1	–	–	25.4	–	–	6.1	–	–
Funk G-5048 (4X)	24.0	27.3	25.9	26.7	23.3	25.2	6.4	6.2	6.4
Pride R144 (2X)	23.9	24.4	24.1	23.2	20.8	23.1	5.6	5.1	5.1
Funk G-4141 (2X)	23.9	25.7	25.1	29.5	27.2	27.8	7.0	6.9	6.9
Super Crost 1210 (2X)	23.8	26.7	–	25.2	22.3	–	6.0	5.8	–
Trojan TX90 (3X)	23.7	–	–	27.0	–	–	6.4	–	–
Warwick TX17 (3X)	23.6	28.0	30.1	20.8	17.4	17.4	4.9	4.7	5.1
Golden Harvest H-2220 (4X)	23.6	–	–	21.0	–	–	4.9	–	–
Pioneer 3965 (3X)	23.5	24.9	24.1	27.9	23.4	25.2	6.6	5.8	6.0
Michigan 3093 (3X)	23.4	25.4	24.1	27.8	26.3	28.2	6.5	6.7	6.7
Stewart 3701 (3X)	23.0	–	–	27.9	–	–	6.4	–	–
Michigan 333-3X (3X)	23.0	25.2	23.9	29.1	26.7	28.3	6.7	6.7	6.7
Payco SX465 (2X)	22.9	25.4	–	24.1	24.0	–	5.5	6.1	–
Warwick TX20 (3X)	22.8	24.2	23.7	24.9	24.1	26.2	5.7	5.8	6.2
Funk G-4085 (3X)	22.8	–	–	24.9	–	–	5.7	–	–
Pioneer 3975A (Sp.)	22.7	–	–	24.5	–	–	5.6	–	–
Anderson 3W85 (3X)	22.7	–	–	22.9	–	–	5.2	–	–
Payco 369 (4X)	22.7	–	–	22.0	–	–	5.0	–	–
Super Crost 1103 (3X)	22.5	24.4	–	22.6	20.3	–	5.1	4.9	–
Anderson A-85 (4X)	22.3	–	–	24.7	–	–	5.5	–	–
Anderson 3W80 (3X)	22.3	–	–	25.8	–	–	5.7	–	–
Michigan 3102 (2X)	22.3	24.2	23.6	28.7	27.5	29.1	6.4	6.6	6.8
Pickseed 2262 (2X)	21.7	–	–	26.2	–	–	5.7	–	–
Payco SX350 (2X)	21.5	–	–	23.3	–	–	5.0	–	–
Funk G-5191 (4X)	21.5	23.8	–	28.0	27.8	–	6.0	6.6	–
Anderson AX-3 (Sp.)	21.2	–	–	26.1	–	–	5.5	–	–
Anderson SSA (2X)	20.7	–	–	33.0	–	–	6.8	–	–
Golden Harvest H-2340 (2X)	20.5	–	–	29.8	–	–	6.1	–	–
Golden Harvest H-2370 (2X)	20.2	22.1	–	34.7	29.7	–	7.0	6.5	–
Pioneer 3780 (2X)	19.4	–	–	35.6	–	–	6.9	–	–
Average	23.6	26.5	26.0	25.0	22.6	24.2	5.9	5.8	6.1
Range	19.4 to 28.4	22.1 to 31.5	23.6 to 32.3	17.6 to 35.6	16.7 to 29.7	17.4 to 29.1	4.5 to 7.1	4.7 to 6.9	5.1 to 6.9
Least significant difference	1.9	1.4	1.1	1.9	1.3	0.9	0.6	0.4	0.4

	1977	1976	1975
Planted	May 13	May 15	May 15
Harvested	September 13	September 8	September 3
Soil Type	Onaway sandy loam	Onaway sandy loam	Onaway loam
Previous Crop	Corn	Wheat	Corn
Population	22,400	19,500	20,900
Rows	28"	28"	28"
Fertilizer	130-38-38, manure	118-72-72, manure	20-80-80, manure
Soil Test: pH	7.3	6.6	
P	50 (medium)	53 (medium)	
K	152 (low)	176 (medium)	

Farm Cooperator: Robert Cornell, Posen (1977, 1976); Louis and Leroy Woloszyk, Posen (1975)
County Extension Directors: A. H. Nickels, Alpena (1977, 1976)
Jay Poffenberger, Rogers City (1975)
Cooperator: Dr. L. O. Copeland, Crop and Soil Sciences Department, Michigan State University

TABLE 22. **NORTHERN MICHIGAN** Zone 4
ALGER COUNTY TRIAL – SILAGE
One, Two, Three Year Averages – 1977, 1976, 1975

Hybrid (Brand–Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.	1977	2 yrs.	3 yrs.
Funk G-4077 (3X)	46.2	46.4	–	8.3	7.5	–	3.9	3.5	–
Pride R097 (3X)	45.5	43.7	–	9.9	8.4	–	4.5	3.7	–
Pride R107 (3X)	44.0	–	–	11.2	–	–	4.9	–	–
Michigan 2013 (3X)	43.9	43.8	38.8	10.0	8.9	10.5	4.4	3.9	3.9
Midland M-385 (3X)	41.4	–	–	12.1	–	–	5.0	–	–
Pride 1128 (2X)	40.8	–	–	13.0	–	–	5.3	–	–
Michigan 200 (4X)	40.4	41.0	36.1	12.4	10.0	11.5	5.0	4.1	4.0
Blaney B-22B (3X)	37.7	–	–	13.4	–	–	5.0	–	–
Funk G-4040 (2X)	36.8	39.0	33.5	15.3	12.5	13.3	5.6	4.8	4.3
Funk G-4082 (3X)	36.6	37.4	33.3	13.2	11.0	12.3	4.8	4.0	3.9
Michigan 280 (4X)	36.0	32.8	29.7	15.8	13.5	14.4	5.7	4.5	4.2
Michigan 3093 (3X)	35.6	–	–	16.3	–	–	5.8	–	–
Trojan TX85 (3X)	35.1	–	–	14.8	–	–	5.2	–	–
Funk G-5048 (4X)	35.1	36.0	31.9	13.7	11.3	13.0	4.8	4.0	4.0
Midland M-380 (3X)	34.9	–	–	12.4	–	–	4.3	–	–
Midland M-373 (3X)	34.8	–	–	12.8	–	–	4.4	–	–
Michigan 2443 (3X)	34.8	37.9	–	17.5	13.1	–	6.1	4.8	–
DeKalb XL311 (3X)	34.8	34.1	29.7	17.7	13.3	13.2	6.4	4.7	4.0
Trojan TX90 (3X)	34.6	–	–	15.2	–	–	5.3	–	–
Acco UC1124 (2X)	34.6	–	–	16.9	–	–	5.8	–	–
Pioneer 3977 (3X)	34.2	–	–	16.9	–	–	5.8	–	–
Jacques JX20 (2X)	33.9	–	–	13.5	–	–	4.7	–	–
DeKalb XL12 (2X)	33.9	–	–	19.2	–	–	6.5	–	–
Funk G-5191 (4X)	33.8	–	–	17.0	–	–	5.8	–	–
Funk G-4085 (3X)	33.1	–	–	15.6	–	–	5.1	–	–
Stewart 3701 (3X)	32.9	31.8	28.4	18.1	14.1	14.6	6.0	4.5	4.1
Blaney 7601 (2X)	32.9	–	–	13.7	–	–	4.6	–	–
Jacques JX863 (3X)	32.8	–	–	14.0	–	–	4.6	–	–
Blaney B-220 (3X)	32.0	–	–	14.9	–	–	4.8	–	–
Midland M-375 (3X)	32.0	–	–	14.6	–	–	4.7	–	–
Pioneer 3965 (3X)	31.9	33.0	30.1	19.4	15.0	15.7	6.2	4.9	4.6
Midland M-488 (4X)	31.6	–	–	16.3	–	–	5.2	–	–
Pioneer 3975A (Sp.)	30.9	–	–	18.2	–	–	5.6	–	–
Stewart 38 (3X)	30.4	32.4	28.9	16.0	12.8	14.1	4.8	4.0	3.9
Midland M-390 (3X)	30.3	–	–	18.2	–	–	5.5	–	–
Acco UC1131 (2X)	30.0	–	–	14.9	–	–	4.5	–	–
Acco 305 (3X)	29.9	–	–	17.9	–	–	5.4	–	–
Acco 310 (3X)	27.9	–	–	18.9	–	–	5.2	–	–
Average	35.2	37.6	32.0	14.9	11.6	13.2	5.2	4.2	4.0
Range	27.9 to 46.2	31.8 to 46.4	28.4 to 38.8	8.3 to 19.4	7.5 to 15.0	10.5 to 15.7	3.9 to 6.5	3.5 to 4.9	3.9 to 4.6
Least significant difference	1.9	1.2	1.0	1.6	1.1	0.8	0.6	0.5	0.4

	1977	1976	1975
Planted	May 13	May 21	June 4
Harvested	October 7	September 24	October 1
Soil Type	Chatham stoney loam	Chatham stoney loam	Chatham stoney loam
Previous Crop	Oats	Corn	Fallow
Population	20,100	17,400	17,400
Rows	36"	36"	36"
Fertilizer	117-72-72	111-51-51	51-51-51
Soil Test: pH	7.2	7.5	
P	161 (very high)	105 (very high)	
K	177 (medium)	164 (medium)	

Farm Cooperator: Michigan State University, Chatham
Cooperator: Dr. Richard Leep, Dept. of Crop & Soil Sciences, Michigan State University, Marquette
County Extension Director: Arvid Norlin, Munising

TABLE 23. **NORTHERN MICHIGAN** Zone 4
MENOMINEE COUNTY TRIAL – GRAIN
1977 - One Year

Hybrid (Brand–Variety)	% Moisture 1977	Bushels Per Acre 1977
Pride R107 (3X)	33.7	101.3
Pride R097 (3X)	33.8	82.6
Pride 1128 (2X)	33.9	121.6
Funk G-4040 (2X)	34.7	123.4
Michigan 200 (4X)	34.9	118.6

(Continued)

TABLE 23. (Continued)

Hybrid (Brand–Variety)	% Moisture 1977	Bushels Per Acre 1977
Blaney B-22B (3X)	34.9	100.8
Jacques JX20 (2X)	35.0	119.2
Midland M-385 (3X)	35.1	95.5
Michigan 2013 (3X)	35.2	105.3
Acco UC1124 (2X)	35.7	130.2
*Pioneer 3975A (Sp.)	36.0	137.8
Funk G-4082 (3X)	36.2	108.9
Funk G-5048 (4X)	36.2	119.3
Stewart 38 (3X)	36.6	126.2
*Michigan 280 (4X)	36.6	135.0
Midland M-373 (3X)	36.7	89.0
Midland M-380 (3X)	36.8	93.8
DeKalb XL311 (3X)	36.8	124.6
Trojan TX85 (3X)	36.9	108.4
*Michigan 2443 (3X)	36.9	143.4
Stewart 3701 (3X)	37.2	124.7
Pioneer 3977 (3X)	37.4	119.4
Acco 305 (3X)	37.7	128.2
Midland M-488 (4X)	37.7	117.0
Funk G-4085 (3X)	37.7	129.3
*Trojan TX90 (3X)	37.8	142.3
Blaney 7601 (2X)	38.0	110.3
Jacques JX863 (3X)	38.3	113.4
Michigan 3093 (3X)	39.1	127.1
Acco UC1131 (2X)	39.2	112.9
*DeKalb XL12 (2X)	39.3	139.5
Midland M-375 (3X)	39.4	90.3
Blaney B-220 (3X)	39.7	116.8
*Pioneer 3965 (3X)	40.2	134.5
Funk G-5191 (4X)	40.4	120.8
Acco 310 (3X)	41.0	127.3
Midland M-390 (3X)	42.3	109.6
Average	37.2	117.5
Range	33.7 to 42.3	82.6 to 143.4
Least significant difference	2.2	14.0

Significantly better than average yield in 1977.

Planted May 9, 1977
Harvested October 4, 1977
Soil Type Sandy loam
Previous Crop Corn
Population 24,100
Rows 30"
Fertilizer 110-72-72
Soil Test: pH 7.1
P 50 (medium)
K 160 (medium)
Farm Cooperator: D & C Equipment, Inc., Stephenson
Cooperators: Dr. Richard Leep, Dept. of Crop & Soil Sciences, Michigan State University, Marquette
County Extension Director: Richard A. Breyer, Stephenson

TABLE 24. **NORTHERN MICHIGAN** Zone 4
MENOMINEE COUNTY TRIAL – SILAGE
1977 - One Year

Hybrid (Brand–Variety)	% Dry Matter 1977	Tons Per Acre Green Weight 1977	Tons Per Acre Dry Weight 1977
Michigan 2013 (3X)	49.3	11.3	5.6
Trojan TX85 (3X)	46.8	14.4	6.7
Funk G-4082 (3X)	46.7	14.4	6.7
Blaney B-220 (3X)	46.2	15.8	7.3
Midland M-385 (3X)	45.0	12.4	5.6
Funk G-4085 (3X)	44.2	15.1	6.7
Jacques JX863 (3X)	44.0	13.1	5.8
Michigan 200 (4X)	43.9	14.8	6.5
Jacques JX20 (2X)	43.8	17.5	7.7
Pride 1128 (2X)	43.7	19.3	8.4
Michigan 2443 (3X)	43.7	19.0	8.3
Acco UC1124 (2X)	43.6	18.0	7.8
Pride R107 (3X)	43.5	11.8	5.2
Blaney B-22B (3X)	43.5	15.1	6.6
Midland M-373 (3X)	43.4	15.3	6.7

(Continued)

TABLE 24. (Continued)

Hybrid (Brand–Variety)	% Dry Matter 1977	Tons Per Acre Green Weight 1977	Tons Per Acre Dry Weight 1977
Acco 310 (3X)	42.3	20.0	8.4
Funk G-5191 (4X)	41.5	18.2	7.6
Michigan 280 (4X)	41.4	19.3	8.0
Trojan TX90 (3X)	41.3	16.8	6.9
DeKalb XL311 (3X)	41.2	17.2	7.1
Blaney 7601 (2X)	41.0	14.8	6.1
Stewart 38 (3X)	40.9	21.1	8.6
Stewart 3701 (3X)	40.9	17.4	7.1
Funk G-5048 (4X)	40.8	16.1	6.6
Pioneer 3977 (3X)	40.8	16.1	6.6
Midland M-380 (3X)	40.5	12.1	4.9
Funk G-4040 (2X)	40.5	17.5	7.1
Midland M-488 (4X)	40.4	16.0	6.5
DeKalb XL12 (2X)	39.1	20.6	8.1
Pioneer 3975A (Sp.)	39.0	20.4	7.9
Michigan 3093 (3X)	38.8	21.6	8.4
Acco UC1131 (2X)	38.1	16.7	6.4
Pioneer 3965 (3X)	37.6	21.0	7.9
Midland M-375 (3X)	37.5	15.2	5.7
Acco 305 (3X)	37.4	19.5	7.3
Midland M-390 (3X)	35.9	19.6	6.9
Averages	42.1	16.9	7.0
Range	35.9 to 49.3	11.3 to 21.6	4.9 to 8.6
Least significant difference	2.5	1.9	0.8

Planted May 9, 1977
Harvested September 16, 1977
Soil Type Sandy loam
Previous Crop Corn
Population 23,900
Rows 30"
Fertilizer 110-72-72
Soil Test: pH 7.1
P 50 (medium)
K 160 (medium)
Farm Cooperator: D & C Equipment, Inc., Stephenson
Cooperators: Dr. Richard Leep, Dept. of Crop & Soil Sciences, Michigan State University, Marquette
County Extension Director: Richard A. Breyer, Stephenson

Table 25

Index for 358 hybrids entered as 1,923 entries in the 1977 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, (4X) indicates a double-cross hybrid, (MSX) indicates a modified single cross and (Sp.) indicates a special-cross hybrid. Company names used in association with hybrid numbes refer to the brand and the numbers are the variety (hybrid) designation.

ACCO Seed, Belmond, Iowa

Acco U 305 (3X) (22, 23, 24)
Acco U 310 (3X) (22, 23, 24)
Acco U 322 (3X) (17)
Acco U 334 (3X) (7, 9, 10, 13, 14, 15)
Acco UC 1124 (2X) (22, 23, 24)
Acco UC 1131 (2X) (22, 23, 24)
Acco UC 1151 (2X) (1)
Acco UC 2301 (2X) (1, 16, 17)
Acco UC 2901 (2X) (11, 12)
Acco UC 3002 (2X) (1, 2, 3, 6, 7, 8, 11, 12, 16)
Acco UC 3301 (2X) (6, 16)
Acco UC 3301A (2X) (1, 2, 3, 4, 5, 9, 10, 14, 15)
Acco UC 4201 (2X) (1, 4, 5)

ADI Distributors, Inc., Carmel, Indiana 46032

ADI 195 (2X) (13, 16)
ADI 197 (2X) (13, 16)
ADI 232 (2X) (13, 16)
ADI 315 (2X) (3, 16)
ADI 395 (2X) (3)
ADI 555 (2X) (3)
ADI 575 (3X) (3)

The Andersons, Maumee, Ohio 43537

Anderson 3W80 (3X) (13, 14, 15, 20, 22, 23)
Anderson 3W85 (3X) (20, 22, 23)
Anderson A85 (4X) (20, 22, 23)
Anderson AX-3 (Sp.) (13, 14, 15, 20, 22, 23)
Anderson AX-4 (Sp.) (1, 3, 6, 7, 9, 10)
Anderson AX-5 (Sp.) (1, 3, 6, 7, 9, 10)
Anderson SSA (2X) (13, 14, 15, 20, 22, 23)
Anderson SSE (2X) (1, 3, 6, 7, 9, 10, 13)
Anderson SSM (2X) (1, 3, 6)

Asgrow Seed Co., Des Moines, Iowa 50053

Asgrow RX29 (4X) (22, 23)
Asgrow RX32 (MSX) (11, 12)
Asgrow RX40 (2X) (5, 9, 10, 11, 12, 13, 14, 15)
Asgrow RX53 (2X) (4, 5, 9, 10, 11, 12, 13, 14, 15)
Asgrow RX58 (2X) (5, 16)
Asgrow RX2222 (2X) (14, 15)
Asgrow RX2345 (2X) (4, 5)

Bayless Hybrids, Inc., Bluffton, Indiana 46714

Bayless SX434M (2X) (2, 3, 5, 6)
Bayless SX447 (2X) (2, 3)
Bayless SX637 (2X) (2)
Bayless SX4346 (2X) (2, 3)

Blaney Farms, Inc., Madison, Wisconsin 53711

Blaney B-AA (2X) (2, 3)
Blaney B22B (3X) (22, 23, 24)
Blaney B220 (3X) (19, 22, 23, 24)
Blaney B302 (2X) (2, 4, 7, 14, 15, 16)
Blaney B303A (2X) (4, 7, 8, 9, 10, 11, 12, 16, 17)
Blaney B305-WX (2X) (11, 12, 13, 16, 17)
Blaney B401 (2X) (2, 6, 13)
Blaney B402 (2X) (2, 14, 15)
Blaney B443 (3X) (11, 12, 16, 17)
Blaney B501A (2X) (17)
Blaney B506 (2X) (2, 8, 9, 10, 16)
Blaney B601-WX (2X) (1, 2, 3)
Blaney B605-WX (2X) (9, 10, 11, 12, 13, 14, 15)
Blaney B606 (2X) (1, 2, 3, 4, 5, 6, 8, 11, 12, 13, 16)
Blaney B606E (2X) (1, 4, 7, 9, 10, 14, 15, 17)
Blaney B703 (2X) (1, 2, 3, 5)
Blaney B805 (2X) (1, 2, 3, 5)
Blaney EX7305 (2X)(1, 2, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17)
Blaney EX7601 (2X) (22, 23, 24)
Blaney EX7606 (2X) (6)

Cardinal Seed Co., Quincy, Michigan 49082

Cardinal SX85 (Sp.) (18)
Cardinal SX85A (Sp.) (18)
Cardinal SX93 (2X) (18)
Cardinal SX112 (2X) (1, 4, 9, 10, 13)

Cargill Seeds, Minneapolis, Minnesota

Cargill 434 (3X) (2, 3, 9, 10)
Cargill 449 (3X) (3)
Cargill 810 (2X) (11, 12, 14, 15)
Cargill 825 (2X) (11, 12, 14, 15)
Cargill 838 (2X) (5, 6, 9, 10)
Cargill 863 (2X) (2, 3, 6, 7, 9, 10)
Cargill 890 (2X) (1, 3, 5, 6)

Cowbell Seeds, Inc., Bradley, Michigan 49311

Amcorn 4010 (2X) (7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Amcorn 4100 (2X) (3, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Amcorn 7300 (2X) (1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Cowbell 7440 (2X) (1, 2, 3, 4, 5, 7, 8, 9, 10, 13)
Amcorn 7480 (2X) (1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Dairyland Seed Co., Inc., Kewaskum, Wisconsin 53040

Dairyland DX302 (3X) (13)
Dairyland DX1002 (2X) (7, 13)
Dairyland DX1005 (2X) (3, 7)
Dairyland DX1007 (2X) (3, 5)
Dairyland DX1008 (2X) (1, 3)
Dairyland DX1095 (2X) (13)

DeKalb Ag Research, Inc., DeKalb Illinois

DeKalb XL10 (2X) (20, 21)
DeKalb XL12 (2X) (7, 8, 9, 10, 14, 15, 20, 21, 22, 23, 24)
DeKalb XL16 (2X) (4, 6, 9, 10, 11, 12, 14, 15)
DeKalb XL21A (2X) (5)
DeKalb XL25 (2X) (7, 8, 9, 10)
DeKalb XL35 (Sp.) (4, 7, 9, 10)
DeKalb XL42 (2X) (1, 2, 3, 5, 7, 8, 9, 10, 11, 12, 14, 15)
DeKalb XL43A (Sp.) (1)
DeKalb XL64A (Sp.) (5)
DeKalb XL311 (3X) (19, 22, 23, 24)

Dennis Hybrid Corp., Windfall, Indiana 46076

Dennis DS6 (2X) (1, 3, 5, 9, 10)
Dennis DS37E (2X) (1, 3, 5, 9, 10)
Dennis DS47A (2X) (1, 3, 5, 9, 10)
Dennis DS90 (2X) (1, 3, 5, 9, 10)

Ferry-Morse Seed Co., Geneseo, Illinois 61254

Hancock X152 (2X) (1, 2, 3, 5)
Hulting X770 (2X) (1, 2, 3, 5)
Hulting X880 (2X) (5)
Hulting 9660 (3X) (2, 3)
Hulting 9761 (3X) (2, 3)

Edward J. Funk & Sons., Inc., Kentland, Indiana 47951

Super Crost S14A (2X) (17, 18, 20, 21)
Super Crost S18 (2X) (7, 8, 9, 10, 13, 16, 19)
Super Crost S27 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Super Crost 1103 (3X) (17, 18, 20, 21)
Super Crost 1210 (2X) (18, 20, 21)

Super Crost 1692 (2X) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19)
Super Crost 1901 (2X) (7)
Super Crost 2350 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Super Crost 2470 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)
Super Crost 2890 (2X) 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)
Super Crost 2890A (2X) (1, 2, 3)
Super Crost 4242 (2X) (1, 2, 3, 5)
Super Crost 4350 (2X) (1, 2, 3)
Super Crost 5440 (2X) (1, 2, 3)

Funk Seeds International, Bloomington, Indiana 61701

Funk G-4040 (2X) (14, 15, 17, 19, 22, 23, 24)
Funk G-4077 (18, 19, 20, 21, 22, 23, 24)
Funk G-4082 (3X) (17, 22, 23, 24)
Funk G-4085 (3X) (18, 19, 20, 21, 22, 23, 24)
Funk G-4141 (2X) (4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21)
Funk G-4195 (3X) (4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18)
Funk G-4252 (3X) (1, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Funk G-4272 (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)
Funk G-4288 (3X) (6)
Funk G-4321A (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16)
Funk G-4343 (2X) (2, 3)
Funk G-4408 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16)
Funk G-4430 (2X) (1, 2, 3, 4, 5)
Funk G-4444 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)
Funk G-4449 (2X) (1, 2, 3, 4, 5, 7, 9, 10)
Funk G-4507 (2X) (1, 2, 3, 4, 5, 7, 9, 10)
Funk G-5048 (4X) (11, 12, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24)
Funk G-5191 (4X) (11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24)

Garno Seed Co., Inc., Palmyra, Michigan 49268

Garno S-82 (2X) (1, 6, 9, 10, 11, 12, 14, 15)
Garno S-89 (2X) (1, 6, 9, 10, 14, 15)
Garno S-100 (2X) (1, 6, 9, 10)

Fred Gutwein & Sons, Inc., Francesville, Indiana 47946

Gutwein 08 (2X) (13, 14, 15)
Gutwein 10A (2X) (11, 12, 13, 14, 15)
Gutwein 22 (2X) (2, 5, 7, 9, 10, 11, 12, 13, 14, 15)
Gutwein 23 (2X) (7)
Gutwein 40 (2X) (2, 3, 5, 11, 12)
Gutwein 44 (2X) (2, 3, 5)
Gutwein 46 (2X) (2, 3, 5)
Gutwein 46B (2X) (7, 9, 10, 14, 15)
Gutwein 62 (2X) (2, 5)
Gutwein 69A (2X) (2, 3)
Gutwein 112 (3X) (2, 7, 9, 10, 11, 12, 14, 15)

Jacques Seed Co., Prescott, Wisconsin 54021

Jacques JX20 (2X) (19, 22, 23, 24)
Jacques JX25 (2X) (11, 12)
Jacques JX52 (2X) (2, 3, 8, 11, 12)
Jacques JX60 (2X) (19)
Jacques JX62 (2X) (11, 12, 14, 15)
Jacques JX92 (2X) (2, 3, 8, 11, 12)
Jacques JX122A (2X) (4, 7, 11, 12, 14, 15)
Jacques JX124A (2X) (2, 3)
Jacques JX177 (2X) (4)
Jacques JX863 (3X) (22, 23, 24)
Jacques JX907 (4X) (20)

Lowe Seed Co., Kankakee, Illinois 60901

Lowe LSX14 (2X) (14, 15)
Lowe LSX101 (2X) (14, 15)

McCurdy Seed Co., Fremont, Iowa 52561

McCurdy MSX42 (2X) (8, 9, 10)
McCurdy MSX44A (2X) (5, 6, 8)
McCurdy MSX46 (2X) (5, 6, 8, 9, 10)
McCurdy MSX60 (2X) (5)
McCurdy 76-10 (2X) (6)
McCurdy 76-14 (2X) (5, 8)

Michigan Crop Improvement Association, East Lansing, Michigan 48823

Michigan 200 (4X) (18, 19, 20, 21, 22, 23, 24)
Michigan 2013 (3X) (18, 19, 20, 21, 22, 23, 24)
Michigan 2443 (3X) (17, 18, 19, 20, 21, 22, 23, 24)
Michigan 280 (4X) (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24)
Michigan 3093 (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24)
Michigan 3102 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
Michigan 333-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
Michigan 3953 (3X) (1, 2, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17)
Michigan 407-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Michigan 410-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Michigan 4122 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Michigan 5443 (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Michigan 575-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Michigan 5802 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan Hybrid Seed Co., East Lansing, Michigan 48823

Wolverine 24 (4X) (17, 18)
Wolverine W120 (2X) (17, 18)
Wolverine W128 (2X) (11, 12, 14, 15)
Wolverine W155 (2X) (9, 10, 11, 12)
Wolverine W166 (2X) (7, 11, 12, 13, 14, 15, 16)
Wolverine W169 (2X) (3, 7, 9, 10, 13)
Wolverine W170 (2X) (3, 9, 10, 13)
Wolverine W174 (2X) (1, 2, 3, 9, 10, 13, 14, 15)

Midland Cooperative, Minneapolis, Minnesota

Midland M-373 (3X) (22, 23, 24)
Midland M-375 (3X) (22, 23, 24)
Midland M-380 (3X) (22, 23, 24)
Midland M-385 (3X) (22, 23, 24)
Midland M-390 (3X) (22, 23, 24)
Midland M-488 (4X) (22, 23, 24)

Migro Hybrids, Mitchell, Indiana 47446

Migro M-0101 (2X) (1, 2, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17)
Migro M-0105 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Migro M0301 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Migro M-0501 (2X) (1, 3, 4, 10)
Migro M-0505 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
Migro M-1130 (2X) (2, 3, 4, 6)
Migro M-2018X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)

Migro M-2022 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Migro M-3020 (4X) (1, 6, 9, 10, 11, 12, 14, 15)
Migro M4501 (2X) (2, 3, 9, 10)

Muncy Chief Hybrids, Muncy, Pennsylvania 17756

Muncy Chief H304 (4X) (13)
Muncy Chief SX442 (2X) (2, 9, 10, 13)
Muncy Chief SX550 (2X) (2, 9, 10, 13)
Muncy Chief SX553 (3X) (13)
Muncy Chief SX662 (2X) (2, 9, 10)
Muncy Chief H764 (4X) (9, 10)
Muncy Chief SX777 (2X) (9, 10)

Northrup King Co., Minneapolis, Minnesota 55440

Northrup King PX7 (2X) (18, 19)
Northrup King PX15 (2X) (11, 12, 13, 14, 15, 16, 18, 19)
Northrup King PX20 (2X) (7, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
Northrup King PX26 (2X) (7, 9, 10)
Northrup King PX32 (2X) (1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16)
Northrup King PX34 (2X) (1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16)
Northrup King PX46 (2X) (1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16)
Northrup King PX48 (2X) (1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16)
Northrup King PX50A (2X) (2, 3, 4)
Northrup King PX65 (2X) (1, 2, 3, 4, 5, 6)
Northrup King PX414 (3X) (18, 19)
Northrup King PX443 (3X) (17, 18, 19)
Northrup King PX529 (3X) (11, 12, 13, 14, 15, 16)
Northrup King PX585 (3X) (1, 2, 3, 4, 5, 6, 7, 9, 10)

O's Gold Seed Co., Parkersburg, Iowa

O's Gold SX949 (2X) (1, 2)
O's Gold SX1100 (2X) (5, 6, 7, 13)
O's Gold SX1107 (2X) (2, 13)
O's Gold SX1111 (2X) (1)
O's Gold SX5500A (2X) (5)

P-A-G Seeds, Minneapolis, Minnesota 55440

P-A-G SX69 (2X) (5, 9, 10)
P-A-G SX111 (2X) (20, 21)
P-A-G SX121 (2X) (19)
P-A-G SX145 (2X) (19)
P-A-G SX177 (2X) (5, 7, 9, 10, 11, 12, 14, 15, 19)
P-A-G SX189 (2X) (11, 12, 14, 15)
P-A-G SX210 (2X) (5, 9, 10, 11, 12, 13, 14, 15)
P-A-G 220 (2X) (7, 9, 10)
P-A-G SX397 (2X) (1, 2, 3, 5, 9, 10, 14, 15)
P-A-G SX424 (2X) (2)
P-A-G 534 (3X) (5, 9, 10, 11, 12)

Roy W. Parker & Sons, Inc., Kimmell, Indiana 46760

Parker 30A (2X) (2, 3, 5, 6)
Parker 60 (2X) (5)

Payco Seeds, Dassel, Minnesota 55325

Payco SX350 (2X) (20, 21)
Payco 369 (4X) (20, 21)
Payco SX465 (2X) (20, 21)
Payco SX555 (2X) (13)
Payco 3X573 (3X) (13)
Payco SX680 (2X) (6, 13)
Payco SX775 (2X) (1, 4, 6, 13)
Payco SX811 (3X) (1, 4)
Payco SX865 (2X) (1, 4, 6)
Payco SX990 (2X) (1, 11, 12)

Pfizer Chemical and Genetics, Ltd., Blenheim, Ontario

Warwick TX17 (3X) (20, 21)
Warwick TX20 (3X) (14, 15, 20, 21)
Warwick TX27 (3X) (9, 10, 14, 15)
Warwick SL207 (2X) (20, 21)
Warwick SL501 (Sp.) (2, 5)
Warwick W966 (Sp.) (9, 10)
Warwick W1101 (2X) (2, 5)

Pfizer Genetics, Inc., Olivia, Minnesota 56277

Trojan TX82 (3X) (22, 23, 24)
Trojan TX85 (3X) (18, 22, 23, 24)
Trojan TXS85 (2X) (14, 15)
Trojan TX90 (3X) (11, 12, 17, 18, 20, 21, 22, 23, 24)
Trojan TX92 (3X) (14, 15, 17)
Trojan TXS94 (2X) (11, 12, 14, 15, 17)
Trojan TXS99 (2X) (11, 12, 14, 15)
Trojan TX100 (3X) (17)
Trojan TXS102 (2X) (2, 3, 6, 7, 9, 10, 11, 12, 13, 14, 15)
Trojan TXS105A (2X) (2, 4, 5, 8, 9, 10, 16)
Trojan TXS108A (2X) (2, 3, 4, 8)
Trojan TXS113 (2X) (4, 5)
Trojan TXS115A (2X) (1, 3)
Trojan T1010 (2X) (1, 4)

Otto Pick & Sons Seeds, Ltd., Richmond Hill, Ontario

Pickseed XR44 (2X) (14, 15, 16)
Pickseed 185 (2X) (14, 15, 16)
Pickseed 2262 (2X) (18, 19, 20, 21)
Pickseed 2277 (2X) (18, 19, 20) 21)
Pickseed 2522 (2X) (18, 19, 20, 21)
Pickseed 4424 (2X) (18, 19, 20, 21)

Pioneer Hi-Bred International, Inc., Tipton, Indiana 46072

Pioneer 3517 (MSX) (5)
Pioneer 3518 (MSX) (5)
Pioneer 3535 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16)
Pioneer 3591 (Sp.) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16)
Pioneer 3663 (4X) (1)
Pioneer 3709 (MSX) (2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15)
Pioneer 3780 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21)
Pioneer 3901 (2X) (1, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18)
Pioneer 3958 (2X) (2, 3, 6, 11, 12, 13, 14, 15, 16, 17, 19)
Pioneer 3965 (3X) (6, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24)
Pioneer 3975A (Sp.) (19, 20, 21, 22, 23, 24)
Pioneer 3977 (3X) (2, 3, 19, 20, 21)

Prairie Stream Farms, Inc., Frankfort, Indiana 46041

Prairie Stream SX33 (2X) (5)
Prairie Stream SX44 (2X) (5)

Pride Seed, Inc., Coldwater, Michigan

Pride R097 (3X) (22, 23, 24)
Pride R107 (3X) (18, 19, 20, 21, 22, 23, 24)
Pride R144 (3X) (17, 18, 20, 21)
Pride 501 (3X) (2, 3)
Pride 1128 (2X) (18, 19, 20, 21, 22, 23, 24)
Pride 2206 (2X) (14, 15, 16, 17)
Pride 2264 (2X) (9, 10, 11, 12, 13, 14, 15)
Pride 3315 (2X) (8, 11, 12, 16, 17)
Pride 4404 (2X) (2, 3, 5, 6, 8, 9, 10, 11, 12, 13, 16)
Pride 5525 (2X) (2, 3, 4, 5, 6, 9, 10, 11, 12, 13)
Pride 5574 (2X) (3)
Pride 7715 (2X) (1, 2, 3)

Renk Seed Co., Sun Prairie, Wisconsin 53590

Renk RW2-WX (2X) (9, 10, 11, 12, 13)
Renk RK3 (2X) (13, 14, 15, 16)
Renk RK11AA (2X) (7)
Renk RK15 (2X) (3, 5, 7, 9, 10, 11, 12)
Renk RK16 (2X) (9, 10)
Renk RK44 (2X) (5, 9, 10, 13, 14, 15)
Renk RK66 (2X) (1, 2, 5, 9, 10, 11, 12, 16)
Renk RK77 (2X) (1)
Renk R95 (3X) (11, 12, 14, 15)

Solar Seed Service, Colon, Michigan 49040

Solar B3757 (3X) (3)
Solar A6315 (2X) (3)
Solar A6370 (2X) (3)
Solar B6416 (2X) (3)
Solar A6453 (2X) (3)
Solar A7315 (2X) (3)

Sommer Bros. Seed Co., Pekin, Illinois 61554

Golden Harvest EXP217 (2X) (6, 9, 10, 20, 21)
Golden Harvest EXP377 (2X) (14, 15)
Golden Harvest H-2220 (4X) (3, 19, 20, 21)
Golden Harvest H-2290 (MSX) (11, 12)
Golden Harvest H-2340 (2X) (6, 8,9, 10, 11, 12, 14, 15, 19, 20, 21)
Golden Harvest H-2350 (2X) (14, 15, 19)
Golden Harvest H-2355 (2X) (19)
Golden Harvest H-2370 (2X) (2, 3, 4, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19, 20, 21)
Golden Harvest H-2420 (2X) (2, 3)
Golden Harvest H-2450 (2X) (1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19)
Golden Harvest H-2500 (2X) (1, 3, 5, 9, 10, 14, 15)
Golden Harvest H-2600 (2X) (1, 4, 5, 9, 10)

Stewart Seeds, Ailsa Craig, Ontario

Stewart 38 (3X) (20, 21, 22, 23, 24)
Stewart 255 (2X) (18, 19)
Stewart 278 (2X) (18, 19)
Stewart 288 (Sp.) (11, 12, 13, 14, 15)
Stewart 290 (Sp.) (11, 12, 13, 14, 15)
Stewart 310 (Sp.) (7, 8, 9, 10)
Stewart 2501 (2X) (18, 19)
Stewart 3701 (3X) (20, 21, 22, 23, 24)

Todd Hybrid Corn Co., Burlington, Indiana 46915

Todd M16 (2X) (7)
Todd M30 (2X) (6)
Todd MX33 (2X) (6)
Todd M50 (2X) (7)
Todd M59 (2X) (6, 7)
Todd 330 (3X) (6, 7)

U.S. Steel Agri-Chemicals, Clayton, Missouri

U.S. Steel 0010 (2X) (1, 5, 8, 13)
U.S. Steel 0011 (2X) (1, 5, 8, 13)
U.S. Steel 0555A (3X) (2, 5)

Voris Seeds, Inc., Windfall, Indiana 46076

Voris X380 (2X) (1, 5, 7, 14, 15, 16)
Voris 2262 (Sp.) (20, 21)
Voris 2282 (Sp.) (11, 12, 20, 21)
Voris 2352 (2X) (7, 9, 10, 11, 12, 13, 14, 15)
Voris 2372 (2X) (3, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16)
Voris 2422 (2X) (3, 5)
Voris 2442 (2X) (9, 10)
Voris 2532 (2X) (1, 3, 5)