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Michigan State University Extension Service
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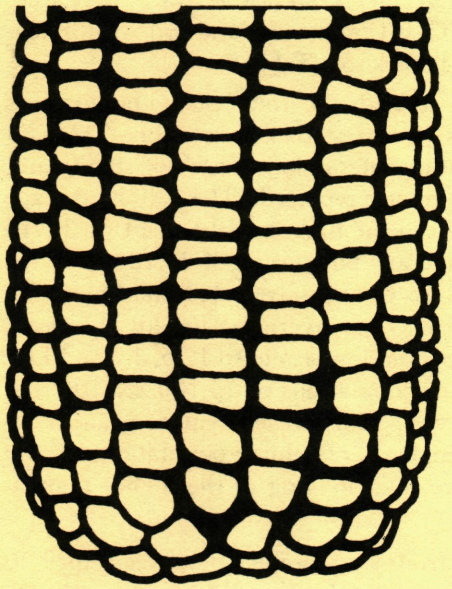

Michigan Corn Production

HYBRIDS COMPARED 1977

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 1976 trials produced 23 bushels more corn per acre than the average of 360 hybrids tested and 77 bushels more than the lowest yield hybrids tested (Table A, page 5). The respective yields were 125, 102, and 78 for the highest, average and lowest yielding hybrids at the 17 testing locations. The driest hybrids at harvest contained 6% less moisture than the average and 16% less moisture than the wettest hybrids tested. Stalk breakage averaged 12%, 4% and 0% for hybrids with highest, average and lowest amounts of stalk lodging.

Corn Maturity Zones and Locations (★) of Trials

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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 23 presents an index of all hybrids entered in the 1976 trials. 360 hybrids were tested as 1,696 entries at 17 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 idicated with (2X), three-way hybrids with (3X), double-cross hybrids with (4X) and special cross hybrids with (Sp) following the hybrid name and number in the tables.

Michigan experimental hybrids are not listed 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 or four-row corn planter adapted for small plots.

From seed packaging through harvest and data processing, each hybrid was identified only by a code number to reduce the chance of personal bias by anyone working in the field or with the data. The code was deciphered after the data had been processed.

Stands and lodging were counted before harvest. Plots for grain yields were harvested with a one-row picker-sheller. Field data were processed with high-speed electronic computers.

Silage yields were taken on all hybrids in the Ingham, Sanilac, Huron, Missaukee, Alpena and Alger County trials (Tables 10, 12, 15, 19, 21 and 22). 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 (15,100 to 27,300) were tested at 16 locations (Table B). Hybrid x population interactions were not significant, so only the averages are reported. The 19,000 average population produced the highest yield at 14 of the 16 locations. The average population of 23,100 gave the highest yield at Cass County—Irrigated and Montcalm County-Irrigated. When averaged for all locations, 19,000 average population produced 12.5, 3.7 and 11.7 bushels more than populations of 15,100, 23,100 and 27,300 respectively. Moisture content of grain averaged .4 to 1.3% higher for the higer populations. There was slightly more stalk lodging at the higher populations.

Planting of all trials was completed between April 30 and May 24. Two weeks of unusually warm weather in April enabled farmers to get an early start with about 10% of the corn acreage planted by May 1, more than the average of 4%. Rains in early May delayed further planting so that only 32% was planted by mid-May compared with the normal 36%. Planting speeded up after that and 80% of the acreage was planted by May 29, about normal.

Dry soils during the first half of June slowed early growth. Average plant height on June 26 was 15 inches, slightly less than 17 inches in 1975 and slightly above 5-year average of 14 inches. Rains in late June and early July replenished soil moisture in most areas. Plant height averaged 33 inches, about normal, on July 10 and shot up to 45 inches, 5 inches above normal, by July 17. 65% of the crop was silked by July 31 compared to 60% in 1975 and 45% normal.

August was dry in most areas and reduced potential yields. Rains in September were too late to help most corn. The crop matured rapidly with 65% dented and 15% matured by September 11. Killing frosts occurred on September 2 in some northern counties and on September 24 in some southern counties. Most corn matured without frost damage.

Light rainfall during October permitted rapid harvest so that 65% was harvested by November 1 compared to 43% average.

The Michigan Crop Reporting Service estimates the 1976 average corn yield at 69 bushels per acre compared to 80 in 1975, 63 in 1974, 79 in 1973 and 83 (a record high) in 1972. Seven percent more acres, 2,450,000, were planted in 1976. Two million acres were harvested for grain and about 450,000 for silage. The total crop is estimated at 138 million bushels, 10% less than the record crop of 152.8 million bushels in 1975.

HOW TO USE THIS BULLETIN

One-, two-, and three-year averages are presented for all hybrids tested during 1976, 1975, and 1974. One-year data are less reliable than two- or three-year averages, and should be interpreted with more caution. Confidence in corn performance data increases with the number of years and locations of testing. Two or more years' results are more desirable than one year of testing.

The tables tell you three things about the hybrids tested:

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

Hybrids are recorded in the tables in order of their approximate maturity (early to late) based on moisture content at harvest. Moisture content was determined from shelled grain samples at all locations harvested for grain and from 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 bushels 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. Difference among hybrids in rate of drying in the field also affects moisture content at harvest but usually does not greatly disturb the relative maturity ratings as determined by moisture content. 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 1977

The following recommendations will help avoid moldy corn in 1977:

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 1977

A good supply of high-quality hybrid seed corn is available for 1977 planting. Most of the seed producing areas had a fair to good growing season with no early killing frost and excellent harvest conditions. Some areas had dry to drought conditions reducing seed supplies of some hybrids. However, the total supply for 1977 is adequate.

Table A. **Average, highest and lowest moisture content, grain yield and stalk lodging at 17 locations in 1976.**

Location	No. of hybrids	% Moisture			Bushels per acre			% Stalk lodging		
		Ave.	Highest	Lowest	Ave.	Highest	Lowest	Ave.	Highest	Lowest
Monroe	87	25.9	31.9	20.6	113.2	140.6	93.1	3.7	11.6	0.0
Hillsdale	103	27.6	33.5	21.6	114.4	145.3	90.2	4.1	12.1	0.0
Branch	113	27.1	34.1	19.1	103.0	135.0	83.6	1.0	5.3	0.0
Kalamazoo	64	26.2	33.6	19.3	68.0	84.8	54.4	13.6	29.5	1.5
Cass-upland irrigated	93	28.0	34.0	21.8	176.5	213.3	141.0	0.5	7.0	0.0
Cass-Muck soil	80	33.7	35.7	30.8	117.6	148.5	89.2	2.2	6.7	0.0
Kent	72	26.7	33.2	21.0	70.8	86.0	50.7	12.7	41.4	0.0
Muskegon	60	31.1	36.2	23.1	68.9	86.4	52.4	0.5	5.3	0.0
Ingham	119	29.1	34.9	23.6	97.1	124.8	65.9	0.7	5.6	0.0
Sanilac	86	33.7	27.3	36.0	104.0	122.5	78.6	0.0	1.5	0.0
Saginaw	86	28.4	34.2	21.0	90.7	111.9	64.5	2.9	10.7	0.0
Huron	100	30.0	35.0	21.6	101.2	123.7	77.1	0.3	2.6	0.0
Montcalm-Irrigated	75	22.7	28.7	17.4	156.4	183.2	120.2	4.1	12.3	0.0
Montcalm-not irrigated	75	22.7	28.7	17.4	71.8	92.6	48.9	13.3	30.6	1.6
Mason	65	23.2	31.0	18.9	84.7	100.3	69.3	0.4	3.6	0.0
Grand Traverse	39	24.3	30.9	18.8	88.7	101.6	64.8	2.3	7.2	0.0
Alpena	48	34.7	41.0	27.9	104.7	120.6	72.1	1.8	13.4	0.0
Average		28.3	39.1	22.7	101.9	124.8	77.5	3.8	11.6	0.2

Table B. **Average yield, % moisture and % stalk lodging at four plant populations for 16 locations in 1976.**

Location	Bushels per Acre				% Moisture in Grain				% Stalk lodging			
	15,100	19,000	23,100	27,300	15,100	19,000	23,100	27,300	15,100	19,000	23,100	27,300
Monroe	98.0	114.2	106.2	105.4	23.5	23.4	23.8	24.3	3.2	4.1	9.5	12.0
Hillsdale	91.2	96.1	94.1	81.2	26.7	27.5	27.7	28.2	4.1	4.7	7.5	8.0
Branch	89.7	102.6	101.8	95.3	25.6	25.7	26.2	26.4	3.2	4.1	6.4	9.4
Kalamazoo	74.9	81.5	75.7	71.6	26.2	26.3	26.3	26.9	8.6	11.0	12.7	16.4
Cass-Upland Irrigated	161.2	189.9	204.3	182.5	26.3	26.3	26.5	27.1	6.9	9.2	11.1	14.0
Cass-Muck Soil	103.0	119.8	110.5	99.4	33.8	33.8	34.9	36.0	4.1	4.3	5.1	7.1
Kent	83.6	87.3	79.8	73.8	25.9	26.0	26.2	27.0	4.8	6.3	9.4	12.0
Muskegon	72.8	77.8	74.0	69.3	30.4	31.0	31.1	31.8	2.0	2.5	4.5	7.5
Ingham	88.8	96.3	92.7	83.6	28.6	28.6	28.7	29.5	0.4	0.8	0.8	2.9
Sanilac	88.0	110.3	98.1	94.9	29.6	30.0	30.0	30.9	0.3	0.3	0.5	2.2
Saginaw	82.6	94.9	84.2	82.1	27.6	28.0	28.1	28.9	2.9	4.0	5.1	7.5
Huron	99.7	109.7	103.3	94.2	28.8	29.6	29.9	29.8	0.2	0.2	0.3	2.1
Montcalm-Irrigated	153.4	174.1	181.2	161.1	20.4	21.8	21.9	22.3	3.0	5.9	8.8	14.0
Montcalm-Not Irrigated	71.7	83.7	80.7	67.8	20.7	21.9	21.7	22.9	7.2	12.7	15.3	23.0
Mason	88.6	94.0	90.9	91.5	23.8	23.8	24.0	25.1	0.3	0.3	0.9	2.0
Grand Traverse	79.6	94.0	89.3	85.0	25.0	25.4	25.4	26.1	0.4	0.6	0.6	4.1
Average	95.4	107.9	104.2	96.2	26.4	26.8	27.0	27.7	3.3	4.4	6.2	9.0

Table 1. **SOUTHERN MICHIGAN** Zone 1
MONROE COUNTY TRIAL
One, Two, Three Year Averages —
1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Michigan 333-3X (3X)	20.6	20	21	114.0	117	106	3.9	6	4
Michigan 396-3X (3X)	21.1	20	22	109.6	121	111	2.5	4	3
Michigan 3093 (3X)	22.1	—	—	104.5	—	—	3.6	—	—
Pioneer 3784 (2X)	22.2	21	23	104.4	119	107	1.7	2	1
Michigan 3102 (2X)	22.2	—	—	106.5	—	—	2.2	—	—
Payco SX775 (2X)	22.6	—	—	103.8	—	—	2.6	—	—
Dennis DS14A (2X)	22.7	—	—	112.0	—	—	4.0	—	—
*Super Crost 2350 (2X)	22.9	—	—	126.0	—	—	2.2	—	—
Jacques JX122A (2X)	23.1	22	—	102.8	119	—	11.6	7	—
Hulting X537 (2X)	23.1	23	—	118.6	124	—	1.5	2	—
Garno S-100 (2X)	23.1	—	—	117.3	—	—	4.0	—	—
Cargill 875 (2X)	23.4	—	—	101.1	—	—	10.2	—	—
Michigan 410-2X (2X)	23.6	22	24	111.2	125	117	3.4	2	2
O's Gold SX1107 (2X)	23.6	—	—	112.0	—	—	2.2	—	—
Blaney B606 (2X)	23.6	23	25	95.0	126	118	1.8	1	1
*Wilstar 5555 (2X)	23.8	22	—	132.5	139	—	1.6	5	—
Blaney EX7606 (2X)	23.9	—	—	104.3	—	—	2.3	—	—
Michigan 572-3X (3X)	23.9	22	25	121.3	129	124	2.5	5	4
Funk G-4288 (3X)	24.1	22	24	102.1	120	111	5.6	9	6
Cardinal SX112 (2X)	24.2	23	26	103.3	128	119	0.0	3	2
Cowbell PSX7480 (2X)	24.3	24	26	112.2	115	109	1.7	1	1
Michigan 407-2X (2X)	24.3	22	24	121.5	137	129	5.5	4	3
*DeKalb KL42 (2X)	24.4	23	25	123.7	140	130	4.3	3	2
Adler 23X (2X)	24.4	22	24	109.1	119	107	3.7	3	2
Michigan 5443 (3X)	24.5	23	—	113.7	133	—	5.1	4	—
Super Crost 4242 (2X)	24.5	23	26	113.7	124	107	10.3	6	5
Wolverine W174 (2X)	24.5	23	25	101.1	127	120	3.2	3	2
Michigan 4122 (2X)	24.6	23	—	119.2	130	—	4.0	2	—
Voris 2442 (2X)	24.6	—	—	112.0	—	—	5.3	—	—
O's Gold SX1100 (2X)	24.8	23	26	108.3	125	115	3.3	4	3
Migro M-1130 (2X)	24.9	24	27	116.9	123	120	4.5	2	2
Acco UC3201 (2X)	24.9	24	27	107.4	130	119	2.5	3	2
*Funk G-4321A (2X)	25.0	—	—	124.1	—	—	6.9	—	—
Funk G-4343 (2X)	25.1	23	25	109.3	126	115	7.3	7	7
Cargill 890 (2X)	25.2	24	27	122.7	123	115	2.4	2	2
*Michigan 5802 (2X)	25.3	24	—	132.9	149	—	3.6	2	—
Blaney B601WX (2X)	25.5	—	—	117.4	—	—	4.1	—	—
Super Crost 2890 (2X)	25.5	24	26	115.0	135	118	1.5	3	2
P-A-G- SX397 (2X)	25.5	24	29	121.8	135	116	10.2	7	5
Golden Harvest H-2510 (2X)	25.5	—	—	114.9	—	—	1.6	—	—
*Golden Harvest H-2450 (2X)	25.5	23	28	128.4	149	131	3.0	2	2
*Pioneer 3709 (MSX)	25.6	—	—	123.6	—	—	0.8	—	—
Voris 2372 (2X)	25.6	—	—	102.7	—	—	6.0	—	—
Cowbell PSX7300 (2X)	25.7	—	—	122.8	—	—	4.1	—	—
*Pioneer 3780 (2X)	25.7	23	25	125.9	128	126	3.0	3	2
Migro M-3020 (4X)	25.7	25	28	116.1	132	112	4.5	3	3
Funk G-4272 (3X)	25.7	—	—	103.7	—	—	4.0	—	—
*Super Crost 4350 (2X)	25.7	—	—	124.1	—	—	0.0	—	—
Funk G-4408 (2X)	25.9	24	—	103.2	127	—	2.5	3	—
*Garno S-94X (2X)	25.9	—	—	125.0	—	—	6.0	—	—
*Dennis DS37E (2X)	26.0	—	—	129.9	—	—	2.4	—	—
Funk G-4444 (2X)	26.1	24	27	110.5	128	118	6.8	4	4
Super Crost 2470 (2X)	26.2	—	—	110.4	—	—	3.5	—	—
Pioneer 3535 (2X)	26.2	25	26	120.3	133	128	3.3	2	1
Michigan 575-2X (2X)	26.3	24	27	112.9	133	122	3.8	4	3
Super Crost 3433 (2X)	26.3	25	—	102.2	114	—	3.0	3	—
Migro M-0601 (2X)	26.3	—	—	109.9	—	—	1.6	—	—
Trojan TXS102 (2X)	26.4	24	—	108.9	134	—	6.6	4	—
P-A-G- SX424 (2X)	26.6	25	—	121.2	132	—	11.2	10	—
Hulting X770 (2X)	26.8	24	—	106.8	123	—	9.0	5	—
Cowbell PSX7440 (2X)	26.9	—	—	114.2	—	—	5.1	—	—
OYO 333 (2X)	26.9	26	29	101.3	114	103	6.3	6	4
Golden Harvest H-2460 (2X)	27.0	—	—	97.8	—	—	1.6	—	—
Pride 7715 (2X)	27.1	26	—	102.8	135	—	0.0	0	—
*Garno S-96X (2X)	27.2	—	—	130.4	—	—	1.8	—	—
Super Crost S27 (2X)	27.4	25	27	116.4	133	117	7.1	4	2
*Blaney B805 (2X)	27.5	—	—	140.3	—	—	4.4	—	—
DeKalb XL43A (Sp.)	27.5	25	29	104.0	116	104	3.8	3	2
Funk G-4366 (3X)	27.5	26	27	112.9	130	120	3.1	6	5
Dennis DS99 (2X)	27.5	—	—	114.2	—	—	8.5	—	—
*OYO 320 (3X)	27.6	—	—	123.8	—	—	3.2	—	—
Acco UC3301 (2X)	27.9	—	—	105.4	—	—	1.6	—	—
Payco SX865 (2X)	28.4	—	—	98.1	—	—	6.8	—	—
Migro M-4501 (2X)	28.6	27	—	113.7	122	—	2.4	4	—
Golden Harvest H-2500 (2X)	28.6	—	—	111.2	—	—	0.8	—	—
Acco UC4561 (2X)	28.7	26	—	98.2	122	—	2.4	2	—
*Migro M-0505 (2X)	28.8	—	—	140.6	—	—	0.8	—	—
Voris 2402 (2X)	28.9	29	—	106.2	129	—	2.7	2	—
Super Crost 2772 (2X)	29.5	26	28	93.1	110	105	1.7	4	3
Trojan TXS113 (2X)	29.8	28	33	110.4	134	113	6.3	4	2
Hulting X6861 (3X)	30.5	28	—	109.8	139	—	0.0	0	—
*Voris 2532 (2X)	30.5	—	—	125.6	—	—	1.6	—	—
Super Crost 5440 (2X)	30.5	28	32	113.8	134	110	0.0	0	0
Migro M-0501 (2X)	30.6	27	31	95.1	119	104	2.3	1	1
Migro M-0301 (2X)	31.2	—	—	121.2	—	—	0.8	—	—

(Continued)

TABLE 1. (Continued)

Hybrid (Brand—Variety)	% Moisture 1976	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1976	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1976	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Wilstar 6663 (2X)	31.3	—	—	99.1	—	—	1.7	—	—
Dennis DS37 (2X)	31.9	—	—	112.9	—	—	1.7	—	—
Average	25.9	24	26	113.2	127	116	3.7	3	3
Range	20.6 to 31.9	20 to 29	21 to 33	93.1 to 140.6	110 to 149	103 to 131	0.0 to 11.6	0 to 10	0 to 7
Least significant difference	1.1	0.9	0.8	10.4	6	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 14	May 5	May 24
Harvested	October 26	October 27	October 29
Soil Type	Pewamo loam	Metamora sandy loam	Pewamo loam
Previous Crop	Wheat	Corn	Wheat seeded to clover
Population	18,900	20,300	20,000
Rows	30"	30"	30"
Fertilizer	233-158-158	206-198-198	96-92-92
Soil Test: pH	6.5	6.5	6.5
p	214 (very high)	213 (very high)	57 (medium)
K	217 (high)	223 (high)	234 (high)

Farm Cooperators: Orville Montri, LaSalle (1976, 1975); Ernest LaPointe, Ottawa Lake (1974)
County Extension Director: Paul Nevel, Monroe

Table 2. SOUTHERN MICHIGAN Zone 1
HILLSDALE COUNTY TRIAL
One, Two, Three Year Averages — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture 1976	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1976	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1976	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Michigan 333-3X (3X)	21.6	22	22	108.2	115	114	0.8	1	1
Warwick SL314 (2X)	22.0	—	—	97.5	—	—	5.3	—	—
Michigan 3093 (3X)	22.2	—	—	104.8	—	—	5.3	—	—
Blaney B401 (2X)	23.5	—	—	101.9	—	—	1.4	—	—
Warwick TX32 (3X)	23.6	24	—	90.2	98	—	2.9	1	—
Michigan 396-3X (3X)	23.6	23	24	101.9	110	115	1.5	1	1
Funk G-4288 (3X)	23.9	24	25	106.9	119	121	7.9	6	4
Michigan 3102 (2X)	24.0	—	—	110.2	—	—	5.5	—	—
Super Crost 2350 (2X)	24.1	—	—	108.7	—	—	0.0	—	—
Pride 4404 (2X)	24.2	—	—	125.6	—	—	4.7	—	—
Michigan 410-2X (2X)	24.2	25	25	122.4	127	131	4.5	3	2
Warwick SL501 (Sp.)	24.5	23	24	100.1	108	109	2.1	1	1
Cowbell PSX7300 (2X)	24.7	25	26	114.0	116	122	9.7	5	3
Michigan 572-3X (3X)	24.8	25	26	113.6	121	126	4.0	3	2
Wyckoff 1266 (2X)	24.9	25	—	120.7	120	—	10.0	5	—
Todd MX33 (2X)	25.1	24	—	102.6	99	—	4.5	2	—
Michigan 407-2X (2X)	25.1	25	25	122.5	129	127	5.6	4	3
Super Crost 3433 (3X)	25.1	26	—	109.3	108	—	3.0	3	—
Blaney B303A (2X)	25.1	—	—	97.9	—	—	9.1	—	—
*Bayless SX434M (2X)	25.2	25	26	126.5	118	117	3.6	2	1
Super Crost 2890 (2X)	25.4	25	27	126.1	118	116	3.1	4	2
*Michigan 4122 (2X)	25.6	26	—	130.1	136	—	2.3	1	—
Gutwein 40 (2X)	25.6	25	25	101.4	108	115	2.9	2	1
Blaney EX7305 (2X)	25.8	25	25	117.0	129	118	7.0	4	2
Super Crost 1901 (2X)	25.9	25	25	126.3	113	115	3.1	2	1
Pioneer 3780 (2X)	26.2	25	26	120.9	127	127	7.9	4	3
Migro M-1130 (2X)	26.3	26	28	108.2	112	120	1.5	2	1
*Cargill 434 (3X)	26.4	—	—	129.8	—	—	8.8	—	—
Super Crost S27 (2X)	26.4	27	27	112.0	123	123	3.0	2	1
Michigan 5443 (3X)	26.4	26	—	126.2	128	—	3.7	3	—
Wolverine W174 (2X)	26.4	25	27	118.2	118	117	0.8	1	1
Blaney EX7606 (2X)	26.4	—	—	91.1	—	—	1.6	—	—
*DeKalb XL42 (2X)	26.4	—	—	133.6	—	—	5.9	—	—
Funk G-4444 (2X)	26.5	27	27	120.5	127	126	5.0	5	4
*Pioneer 3716 (3X)	26.5	25	—	127.1	132	—	2.2	2	—
*Michigan 5802 (2X)	26.5	27	—	130.8	137	—	1.4	1	—
Muncy Chief SX442 (2X)	26.6	26	—	99.1	100	—	7.8	5	—
Jacques JX122A (2X)	26.6	26	26	109.0	124	121	4.4	3	2
Northrup King PX48 (2X)	26.6	—	—	101.5	—	—	3.8	—	—
Wyckoff 2414 (2X)	26.7	27	27	118.3	127	129	7.5	4	3
Pride R501 (3X)	26.8	—	—	112.2	—	—	7.4	—	—
Muncy Chief SX550 (2X)	27.0	27	28	102.5	102	99	3.8	2	1
*Michigan 575-2X (2X)	27.0	27	28	136.0	137	133	0.9	2	2
Acco UC3201 (2X)	27.1	—	—	113.2	—	—	3.6	—	—
O's Gold SX2145 (2X)	27.3	—	—	107.6	—	—	3.0	—	—
*Pioneer 3535 (2X)	27.3	26	27	129.9	134	131	0.7	1	1
Blaney B-AA (2X)	27.3	27	28	104.2	126	127	2.2	2	2
Adler 23X (2X)	27.3	25	27	106.8	112	109	3.7	2	2
*Cowbell PSX7480 (2X)	27.5	26	27	132.4	124	123	5.3	3	2
Bayless SX447 (2X)	27.6	—	—	110.8	—	—	4.5	—	—
O's Gold SX1100 (2X)	27.6	—	—	113.1	—	—	1.4	—	—
O's Gold SX2102 (2X)	27.8	—	—	108.3	—	—	5.1	—	—
Todd M30 (2X)	27.8	28	29	125.5	123	119	2.9	3	2
Migro M-3020 (4X)	27.8	27	28	101.0	114	115	12.1	8	5
Migro M-0301 (2X)	27.9	—	—	96.8	—	—	3.7	—	—
Warwick SL601 (2X)	28.0	27	28	97.4	104	109	4.6	3	2
Hulting X537 (2X)	28.0	27	27	118.7	112	110	5.0	3	2
Wolverine W170 (2X)	28.2	27	27	112.2	113	120	6.9	3	2
*Funk G-4321A (2X)	28.3	—	—	128.6	—	—	2.1	—	—
*Migro M-4501 (2X)	28.4	28	—	138.3	139	—	8.5	5	—
Super Crost S25 (2X)	28.4	26	27	105.7	107	106	2.2	2	2
Wyckoff 3537 (2X)	28.4	29	30	106.9	113	122	5.1	4	3
DeKalb XL45A (2X)	28.6	—	—	107.2	—	—	3.8	—	—
*Blaney B606 (2X)	28.6	27	28	128.9	132	126	2.3	2	2
Gutwein 128 (Sp.)	28.7	28	—	113.4	123	—	0.7	0	—
Todd M59 (2X)	28.7	—	—	124.7	—	—	3.0	—	—
P-A-G SX69 (2X)	28.7	—	—	117.9	—	—	2.9	—	—
Super Crost 2772 (2X)	28.8	28	29	101.1	108	105	3.7	2	1
Funk G-4272 (3X)	28.8	—	—	108.7	—	—	4.2	—	—
Trojan TXS102 (2X)	29.0	28	29	111.6	115	121	1.5	2	1
Super Crost 2470 (2X)	29.0	—	—	104.9	—	—	1.6	—	—
*Pioneer 3709 (MSX)	29.0	—	—	132.0	—	—	1.5	—	—
*Hulting X9770 (3X)	29.0	27	28	131.4	118	116	10.4	7	5
Super Crost S29 (2X)	29.1	27	27	122.3	116	112	3.6	2	1
*P-A-G- SX424 (2X)	29.2	—	—	145.3	—	—	6.5	—	—
Hulting X770 (2X)	29.2	28	29	123.5	123	115	3.8	4	3
*Super Crost 4242 (2X)	29.3	27	28	128.2	120	121	2.9	2	1
DeKalb XL22 (2X)	29.3	—	—	103.4	—	—	3.7	—	—
Funk G-4408 (2X)	29.5	28	—	115.0	114	—	3.7	2	—
Funk G-4343 (2X)	29.5	27	26	104.1	107	111	8.6	7	5
*Gutwein 46 (2X)	29.5	27	27	128.3	119	117	3.6	3	2
Cowbell PSX7440 (2X)	29.5	—	—	125.8	—	—	3.7	—	—
*Trojan TSX108A (2X)	29.8	28	29	143.4	145	135	2.2	1	1
Cargill 863 (2X)	30.1	—	—	122.4	—	—	0.7	—	—
Gutwein 23 (2X)	30.1	—	—	115.5	—	—	3.4	—	—
Funk G-4366 (3X)	30.1	28	28	117.0	114	114	7.6	5	3
*Northrup King PX50A (2X)	30.2	28	29	127.1	132	130	3.7	2	1
OYO 333 (2X)	30.2	30	30	109.2	115	115	3.8	2	2
Super Crost 4350 (2X)	30.3	—	—	110.4	—	—	3.7	—	—
*Gutwein 69A (2X)	30.3	28	29	129.1	133	129	5.9	7	5
Hulting X9761 (3X)	30.4	30	30	115.8	111	112	4.3	4	2
Todd M58 (2X)	30.4	30	30	107.0	105	110	3.0	3	2
Bayless Sx434-3 (2X)	30.7	—	—	106.5	—	—	3.2	—	—
Hulting X6861 (3X)	30.9	30	31	115.5	119	111	1.5	2	1
Bayless SX637 (2X)	31.0	—	—	123.0	—	—	3.7	—	—
Acco UC3301 (2X)	31.2	29	29	110.6	117	121	3.6	2	1
OYO 320 (3X)	31.3	—	—	120.5	—	—	4.2	—	—
Acco UC4561 (2X)	31.3	—	—	106.6	—	—	4.4	—	—
Muncy Chief SX662 (2X)	31.4	31	32	102.6	114	115	4.7	3	2
*Gutwein 62 (2X)	32.4	31	31	133.0	140	137	1.6	3	2
Migro M-0505 (2X)	33.0	—	—	100.5	—	—	1.5	—	—
Migro M-0601 (2X)	33.1	31	—	107.5	118	—	1.4	2	—
*Pride 7715 (2X)	33.5	31	—	126.5	138	—	4.3	3	—
Average	27.6	27	27	114.4	120	119	4.1	3	2
Range	21.6 to 33.5	22 to 31	22 to 32	90.2 to 145.3	98 to 145	99 to 137	0.0 to 12.1	0 to 8	1 to 5
Least significant difference	1.2	0.9	0.7	12.1	7	5			

*Significantly better than average yield in 1976.

(Continued)

TABLE 2. (Continued)

	1976	1975	1974
Planted	May 11	May 20	May 6
Harvested	October 29	October 30	October 18
Soil Type	Griffin sandy loam	Griffin sandy loam	Griffin sandy loam
Previous Crop	Corn	Wheat seeded to clover	Corn
Population	19.700	19,100	20,200
Rows	30"	30"	30"
Fertilizer	117-66-186	112-48-48	105-60-180
Soil Test: pH	6.8	6.3	6.6
P	47 (medium)	47 (medium)	84 (high)
K	222 (high)	229 (high)	150 (low)

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

Table 3. SOUTHERN MICHIGAN Zone1
BRANCH COUNTY TRIAL
One, Two, Three Year Averages — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Northrup King PX 20 (2X)	19.1	20	—	103.5	116	—	1.2	1	—
Michigan 333-3X (3X)	19.2	20	20	98.9	113	114	0.0	1	1
Michigan 3093 (3X)	20.0	—	—	100.9	—	—	0.0	—	—
Michigan 396-3X (3X)	20.4	22	22	105.3	117	119	0.9	0	0
Michigan EXP7501 (3X)	20.6	—	—	103.4	—	—	0.8	—	—
Renk RK16 (2X)	21.9	23	—	102.4	122	—	0.0	0	—
Michigan 3102 (2X)	22.0	—	—	103.8	—	—	0.8	—	—
Parker 25 (2X)	23.4	—	—	94.2	—	—	0.0	—	—
DeKalb XL21 (2X)	23.4	—	—	97.0	—	—	0.8	—	—
Cargill 890 (2X)	23.4	27	27	97.7	122	117	4.1	2	3
Michigan 410-2X (2X)	23.5	24	24	106.7	128	133	0.8	0	0
Lowe LSX14 (2X)	23.6	—	—	83.6	—	—	0.8	—	—
Funk G-4272 (3X)	23.7	—	—	100.3	—	—	0.8	—	—
Parker 28 (2X)	23.8	—	—	103.5	—	—	0.8	—	—
Funk G-4288 (3X)	23.9	24	24	87.9	113	112	2.4	1	1
Renk RW2-WX (2X)	23.9	—	—	95.9	—	—	0.9	—	—
Michigan 407-2X (2X)	23.9	24	23	103.5	135	136	0.8	0	1
Funk G-4343 (2X)	23.9	25	25	103.6	129	129	0.8	0	1
Pride 5574 (2X)	24.0	26	—	94.6	129	—	1.6	1	—
Michigan 572-3X (3X)	24.0	25	25	91.7	121	126	2.6	2	1
Pioneer 3773 (2X)	24.0	25	24	91.0	108	114	0.9	0	1
Pioneer 3709 (MSX)	24.1	—	—	100.9	—	—	0.7	—	—
Adler 23X (2X)	24.2	24	24	109.3	132	131	1.6	1	2
Northrup King PX529 (3X)	24.3	—	—	86.4	—	—	0.0	—	—
*Super Crost 2350 (2X)	24.4	—	—	122.7	—	—	0.0	—	—
Northrup King PX48 (2X)	24.5	26	26	113.4	129	133	0.0	0	0
Blaney EX7305 (2X)	24.5	25	—	99.3	129	—	1.7	1	—
*Trojan TXS105 (2X)	24.5	—	—	115.1	—	—	0.8	—	—
*Wilstar 5555 (2X)	24.7	—	—	115.0	—	—	0.8	—	—
Americana 2800 (2X)	24.7	—	—	88.8	—	—	0.8	—	—
Michigan 5443 (3X)	24.8	25	—	97.7	129	—	3.2	3	—
*Michigan 4122 (2X)	24.8	25	—	121.2	145	—	2.6	1	
Renk RK44 (2X)	24.9	26	25	92.2	115	125	2.3	2	1
Super Crost 3433 (3X)	25.0	26	—	98.9	118	—	0.8	0	—
Pioneer 3780 (2X)	25.0	24	24	97.8	131	132	4.6	3	2
Super Crost S27 (2X)	25.0	26	26	99.4	130	130	0.0	0	0
Super Crost S25 (2X)	25.0	27	25	85.3	110	118	1.6	1	1
DeKalb XL45A (2X)	25.0	26	25	91.9	114	115	5.3	3	2
Cowbell PSX7300 (2X)	25.0	25	25	83.7	114	115	0.0	0	0
P-A-G- SX69 (2X)	25.0	26	25	85.8	126	121	0.8	1	1
*Northrup King PX 32 (2X)	25.2	—	—	133.5	—	—	0.7	—	—
Cargill 449 (3X)	25.2	27	27	109.0	133	131	0.0	1	0
*Michigan 5802 (2X)	25.2	27	—	122.5	153	—	0.0	0	—
Renk R236 (3X)	25.2	—	—	108.3	—	—	0.0	—	—
Funk G-4321A (2X)	25.2	—	—	111.2	—	—	0.0	—	—
Americana 2400 (2X)	25.3	—	—	89.2	—	—	0.0	—	—
*Blaney B601WX (2X)	25.4	—	—	117.0	—	—	0.0	—	—
Hulting X770 (2X)	25.5	27	27	94.1	135	133	1.6	1	1
Wyckoff 2414 (2X)	25.6	27	26	98.0	133	133	0.8	0	0
Northrup King PX614 (3X)	25.6	—	—	105.7	—	—	0.0	—	—
Michigan 575-2X (2X)	25.7	26	26	109.5	133	137	3.2	3	2
Bayless SX447 (2X)	25.8	28	28	106.9	144	145	1.7	1	1
Security SS102 (2X)	25.8	—	—	103.8	—	—	0.0	—	—
Dairyland DX1008 (2X)	25.9	—	—	100.2	—	—	0.0	—	—
Pioneer 3535 (2X)	25.9	28	28	101.8	127	136	0.0	0	0
Cargill 875 (2X)	25.9	—	—	93.7	—	—	0.8	—	—
Migro M-1130 (2X)	25.9	27	27	84.2	128	129	0.8	0	1
Dennis DS37E (2X)	25.9	—	—	106.2	—	—	0.0	—	—
DeKalb XL54 (2X)	25.9	—	—	95.2	—	—	0.0	—	—
Pride 5525 (2X)	26.0	26	—	103.7	132	—	2.4	1	—
Golden Harvest H-2460 (2X)	26.1	—	—	91.3	—	—	0.0	—	—
Acco UC3301 (2X)	26.1	—	—	105.2	—	—	1.5	—	—
Garno S100 (2X)	26.2	—	—	109.5	—	—	0.0	—	—
Gutwein 128 (Sp.)	26.3	—	—	92.9	—	—	0.0	—	—
Hulting X537 (2X)	26.3	27	26	101.0	117	118	0.8	0	1
Cowbell PSX7440 (2X)	26.3	27	26	95.1	120	120	0.0	0	2
Wyckoff 3537 (2X)	26.3	29	—	87.5	131	—	0.0	1	—
Super Crost 4242 (2X)	26.4	27	27	87.6	122	123	1.7	1	1
Acco UC4201 (2X)	26.4	—	—	90.0	—	—	0.0	—	—
Golden Harvest H-2450 (2X)	26.5	27	26	110.5	139	137	0.0	1	1
Super Crost 2470 (2X)	26.5	—	—	105.9	—	—	0.0	—	—
Trojan TXS102 (2X)	26.5	28	27	98.9	132	134	1.6	1	1
Hulting X9761 (3X)	26.5	28	27	90.4	116	117	1.5	1	1
Golden Harvest H-2510 (2X)	26.6	—	—	107.0	—	—	0.7	—	—
Funk G-4444 (2X)	26.6	26	25	110.6	140	137	1.7	1	1
Gutwein 69A (2X)	26.7	—	—	110.4	—	—	0.0	—	—
Funk G-4408 (2X)	26.8	27	—	111.6	143	—	1.6	1	—
Renk RK66 (2X)	26.9	28	27	96.7	116	123	0.0	0	0
*Bayless SX434M (2X)	26.9	28	27	125.8	143	140	0.0	0	1
Hulting X9770 (3X)	27.1	27	26	94.9	119	125	0.9	0	0
Migor M-3020 (4X)	27.2	27	—	97.2	132	—	1.6	1	—
Cowbell PXS7480 (2X)	27.2	28	27	108.8	123	119	0.8	1	1
Northrup King PX50A (2X)	27.4	27	27	90.1	123	129	0.0	0	0
*Blaney B606(2X)	27.4	27	27	115.6	141	136	0.0	0	0
Super Crost S29 (2X)	27.8	28	—	102.2	137	—	0.9	0	—
*Migro M-0301 (2X)	27.9	—	—	121.6	—	—	0.0	—	—
P-A-G SX 424 (2X)	28.0	29	—	103.4	134	—	1.7	1	—
*Americana 3006 (2X)	28.0	—	—	121.2	—	—	0.0	—	—
Lowe LSX205 (2X)	28.1	—	—	106.9	—	—	1.6	—	—
Blaney EX7606 (2X)	28.1	—	—	98.7	—	—	0.8	—	—
*Parker 30 (2X)	28.1	—	—	121.1	—	—	0.8	—	—
*Voris 2422 (2X)	28.1	—	—	127.0	—	—	1.5	—	—
Migro M-4501 (2X)	28.7	29	—	94.5	124	—	0.0	0	—
P-A-G SX397 (2X)	28.8	30	29	106.9	127	132	6.3	4	2
Super Crost 2890 (2X)	28.8	28	28	112.4	144	145	0.0	0	1
Americana 3500 A (2X)	28.9	—	—	103.0	—	—	2.5	—	—
*Super Crost 4350 (2X)	29.1	—	—	135.0	—	—	3.1	—	—
Migro M-0601 (2X)	29.3	31	—	96.6	138	—	3.8	2	—
*Migro M-0501 (2X)	29.8	30	30	115.2	133	135	0.8	0	0
Funk G-4366 (3X)	29.9	27	27	108.0	122	121	0.7	0	1
Bayless SX434-3 (2X)	29.9	30	29	96.1	129	133	0.0	0	0
*Voris 2532 (2X)	30.2	30	30	122.4	152	152	1.5	1	1
Hulting X6861 (3X)	30.3	31	30	101.5	126	130	1.5	1	2
Northrup King PX65 (2X)	30.7	30	30	93.7	128	131	0.8	0	1
Blaney B805 (2X)	31.4	31	31	112.2	132	136	0.0	0	0
*Americana 3200 (2X)	31.5	—	—	118.7	—	—	0.0	—	—
Wilstar 6663 (2X)	31.6	—	—	108.2	—	—	0.0	—	—
Migro M-0505 (2X)	32.2	—	—	110.1	—	—	0.8	—	—
Bayless SX637 (2X)	32.7	32	—	89.9	130	—	0.8	0	—
*Golden Harvest H-2500 (2X)	32.8	33	33	124.1	152	153	0.0	0	0
Pride 7715 (2X)	33.0	31	—	99.3	138	—	0.0	0	—
Dennis DS37 (2X)	33.7	—	—	92.7	—	—	1.6	—	—
Super Crost 5440 (2X)	34.1	33	32	98.1	141	143	0.0	0	0
Average	27.1	27	26	103.0	129	129	1.0	0.7	0.7
Range	19.1 to 34.1	20 to 33	20 to 33	83.6 to 135.0	108 to 153	112 to 153	0.0 to 5.3	0 to 4	0 to 3
Least significant difference	1.3	0.9	0.7	11.9	8	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 15	May 19	April 27
Harvested	October 14	October 16	October 16
Soil Type	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
Previous Crop	Corn	Corn	Corn
Population	19,100	20,200	20,500
Rows	30"	30"	30"
Fertilizer	132-83-60	132-82-72	182-184-0
Soil Test: pH	7.0	6.8	6.5
P	214 (very high)	233 (very high)	199 (very high)
K	210 (high)	399 (very high)	329 (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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Michigan 333-3X (3X)	19.3	22	23	71.3	95	95	16.4	9	7
Michigan 3093 (3X)	20.2	–	–	63.8	–	–	23.6	–	–
Funk G-4195 (3X)	21.4	–	–	69.9	–	–	13.5	–	–
Blaney B303A (2X)	21.9	–	–	67.5	–	–	17.4	–	–
Michigan EXP7501 (3X)	21.9	–	–	67.1	–	–	25.4	–	–
Migro M-0101 (2X)	21.9	24	24	66.7	94	94	22.4	11	8
*Michigan 396-3X (3X)	22.4	24	25	78.2	100	100	15.0	8	6
*Michigan 3102 (2X)	22.7	–	–	77.3	–	–	8.5	–	–
*Cowbell PSX7440 (2X)	23.2	27	29	80.2	99	95	8.0	4	3
Migor M-1130 (2X)	23.4	26	29	58.9	93	98	8.5	5	3
Funk G-4343 (2X)	23.7	26	27	60.2	102	105	13.1	7	5
Michigan 572-3X (3X)	23.9	26	28	67.6	96	97	9.3	5	3
Michigan 407-2X (2X)	24.0	26	27	72.1	108	107	17.2	10	8
*Funk G-4272 (3X)	24.1	–	–	84.8	–	–	12.4	–	–
Cargill 434 (3X)	24.1	–	–	66.7	–	–	21.2	–	–
Adler 23X (2X)	24.1	27	29	63.7	91	90	9.7	5	4
Michigan 410-2X (2X)	24.1	26	27	64.4	95	96	21.7	11	8
Funk G-4321A (2X)	24.2	–	–	72.9	–	–	12.3	–	–
Funk G-4288 (3X)	24.3	27	28	71.1	90	93	17.5	9	7
*Michigan 4122 (2X)	24.5	27	–	81.4	111	–	13.7	7	–
Super Crost S27 (2X)	24.6	28	30	72.3	95	93	6.1	3	2
Cowbell PSX7300 (2X)	24.7	28	30	66.9	96	95	20.5	11	8
Blaney EX7605 (2X)	24.9	–	–	68.4	–	–	29.5	–	–
Michigan 5443 (3X)	24.9	27	–	73.2	104	–	19.1	10	–
Payco SX865 (2X)	25.0	–	–	59.7	–	–	15.3	–	–
Funk G-4252 (3X)	25.1	–	–	73.9	–	–	20.5	–	–
Northrup King PX32 (2X)	25.3	28	–	69.1	101	–	9.8	5	–
Asgrow RX53 (2X)	25.4	27	28	66.3	99	98	12.7	7	4
Funk G-4444 (2X)	25.5	29	30	73.5	97	98	21.3	12	8
Cargill 890 (2X)	25.5	–	–	59.6	–	–	22.0	–	–
Funk G-4366 (3X)	25.7	29	30	67.3	92	92	24.3	13	9
Super Crost 2350 (2X)	25.8	–	–	65.6	–	–	5.4	–	–
Golden Harvest H-2460 (2X)	26.2	–	–	62.3	–	–	13.6	–	–
*Michigan 5802 (2X)	26.4	29	–	78.6	108	–	6.4	4	–
DeKalb XL54 (2X)	26.4	–	–	75.7	–	–	15.5	–	–
Stewart 3-3301 (Sp.)	26.5	30	–	62.9	85	–	11.0	6	–
Blaney EX7305 (2X)	26.6	28	28	65.1	95	99	10.4	5	4
Pioneer 3709 (MSX)	26.6	–	–	73.0	–	–	2.9	–	–
Payco SX775 (2X)	26.6	–	–	65.9	–	–	9.7	–	–
*Pioneer 3780 (2X)	26.6	29	30	80.8	107	105	15.4	10	7
Michigan 575-2X (2X)	26.6	29	30	65.0	97	98	5.9	3	2
Acco UC4201 (2X)	26.8	29	30	66.4	103	102	6.3	3	2
Cowbell PSX4100 (2X)	27.0	29	30	56.2	81	83	11.3	6	4
Golden Harvest H-2450 (2X)	27.5	–	–	61.5	–	–	17.3	–	–
Asgrow RX2345 (2X)	27.5	–	–	57.2	–	–	9.2	–	–
Super Crost 2890 (2X)	27.9	30	31	68.7	102	102	2.2	1	1
Pioneer 3529 (Sp.)	28.5	30	–	54.9	96	–	4.6	2	–
*Cowbell PSX7480 (2X)	28.5	31	32	84.1	95	92	1.5	1	1
*Funk G-4408 (2X)	28.5	30	–	76.2	101	–	19.8	10	–
Blaney B605 (2X)	28.5	–	–	59.1	–	–	28.7	–	–
*Pioneer 3535 (2X)	28.7	31	32	81.0	94	94	8.1	4	3
*Jacques JX177 (2X)	28.7	30	–	78.2	97	–	4.4	2	–
Acco UC3301 (2X)	28.9	–	–	64.0	–	–	18.2	–	–
Jacques JX122A (2X)	29.0	29	29	72.7	106	107	12.9	8	6
Blaney B606 (2X)	29.4	31	33	70.4	102	101	3.8	2	2
Migro M-1101 (2X)	29.4	–	–	61.6	–	–	18.2	–	–
Pioneer 3518 (Sp.)	29.7	31	33	55.5	87	84	3.1	2	1
Cardinal SX112 (2X)	29.8	31	32	69.1	103	100	1.4	2	3
Asgrow RX58 (2X)	30.0	31	31	63.0	102	100	20.7	10	8
Trojan TXS102 (2X)	30.7	31	32	62.0	93	99	29.0	15	10
Super Crost 2470 (2X)	30.8	–	–	54.4	–	–	4.5	–	–
Northrup King PX610 (3X)	31.0	–	–	54.4	–	–	12.0	–	–
Migro M-0301 (2X)	33.2	–	–	65.1	–	–	22.0	–	–
Migro M;0505 (2X)	33.6	–	–	67.6	–	–	6.2	–	–
Average	26.2	28	29	68.0	98	97	13.6	6	5
Range	19.3 to 33.6	22 to 31	23 to 33	54.4 to 84.8	81 to 111	83 to 107	1.5 to 29.5	1 to 15	1 to 10
Least significant difference	1.3	0.7	0.6	8.1	6	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 22	May 19	May 20
Harvested	October 18	October 17	October 22
Soil Type	Fox sandy loam	Fox sandy loam	Fox sandy loam
Previous Crop	Clover sod	Corn	Wheat seeded to clover
Population	20,100	20,400	21,300
Rows	30"	30"	30"
Fertilizer	112-88-24	108-30-30	100-48-102
Soil Test: pH	6.4	6.5	6.7
P	54 (medium)	55 (medium)	111 (very high)
K	223 (high)	267 (high)	324 (very high)

Farm Cooperator: Richard VanVrancken, Climax
County Extension Agent: Richard Bailey, Kalamazoo

Table 5. SOUTHERN MICHIGAN Zone 1
CASS COUNTY—IRRIGATED UPLAND SOIL
One, Two, Three Year Averages — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Michigan 3102 (2X)	21.8	–	–	157.2	–	–	0.0	–	–
Michigan 333-3X (3X)	22.2	22	21	154.6	139	118	3.0	3	2
Michigan 396-3X (3X)	22.3	23	22	147.9	150	127	0.7	4	4
Michigan 3093 (3X)	22.3	–	–	158.4	–	–	0.0	–	–
Migro M-0101 (2X)	22.5	–	–	155.2	–	–	0.8	–	–
Blaney B302 (2X)	23.1	22	22	141.0	118	104	0.0	11	8
Renk RK16 (2AX)	24.2	–	–	144.5	–	–	0.0	–	–
Michigan 407-2X (2X)	24.4	24	23	183.1	178	148	0.0	3	5
Pioneer 3773 (2X)	24.4	–	–	180.3	–	–	0.7	–	–
Funk G-4272 (3X)	24.5	–	–	162.6	–	–	0.0	–	–
Voris 2372 (2X)	24.6	–	–	178.7	–	–	3.5	–	–
Cowbell PSX4100 (2X)	24.7	–	–	143.7	–	–	7.0	–	–
Blaney EX7305 (2X)	24.8	24	23	167.5	163	131	0.0	4	3
Parker 28 (2X)	25.2	–	–	144.8	–	–	2.2	–	–
Golden Harvest H-2370 (2X)	25.6	–	–	143.4	–	–	0.8	–	–
Funk G-4288 (3X)	25.6	24	26	179.5	174	141	0.0	5	3
Michigan 410-2X (2X)	25.6	24	24	174.5	165	141	1.4	6	4
Blaney EX7605 (2X)	25.7	–	–	144.6	–	–	0.0	–	–
Cowbell PSX7300 (2X)	25.8	25	25	173.4	158	130	0.7	6	5
Renk RW2-WX (2X)	25.8	–	–	160.1	–	–	0.7	–	–
Michigan 4122 (2X)	25.9	25	–	177.9	172	–	0.0	1	–
Super Crost 1901 (2X)	26.3	25	25	159.7	151	127	0.0	4	3
Adler 23X (2X)	26.3	25	–	184.6	163	–	0.0	1	–
Michigan 572-3X (3X)	26.3	25	25	169.5	158	137	0.0	2	1
Prairie Stream SX3 (2X)	26.4	26	26	180.7	176	155	1.4	1	2
*Gutwein 40 (2X)	26.6	25	–	192.5	172	–	0.0	2	–
McCurdy MSX46 (2X)	26.7	–	–	168.3	–	–	0.0	–	–
McCurdy MS44A (2X)	26.8	–	–	167.5	–	–	0.0	–	–
Security SS108 (2X)	26.8	–	–	187.1	–	–	0.0	–	–
Michigan 5443 (3X)	26.8	26	–	178.3	168	–	0.7	5	–
McCurdy MSX42 (2X)	27.0	–	–	154.0	–	–	2.1	–	–
Renk RK66 (2X)	27.2	–	–	168.9	–	–	0.0	–	–
Super Crost S27 (2X)	27.3	26	26	163.5	170	136	1.5	3	4
Cowbell PSX7480 (2X)	27.3	26	26	177.0	153	137	0.0	0	0
Security SS105 (2X)	27.3	26	–	173.7	168	–	0.0	3	–
Pioneer 3780 (2X)	27.3	25	24	189.6	179	147	0.0	3	3
Renk RK44 (2X)	27.4	–	–	180.0	–	–	3.6	–	–
*Michigan 5802 (2X)	27.4	26	–	193.0	187	–	1.1	1	–
Pioneer 3709 (MSX)	27.4	–	–	174.2	–	–	0.7	–	–
Golden Harvest H-2450 (2X)	27.5	26	25	160.6	165	136	1.4	7	5
Funk G-4343 (2X)	27.5	25	25	176.2	170	139	0.0	4	2
Funk G-4321A (2X)	27.5	–	–	167.5	–	–	0.7	–	–
Funk G-4444 (2X)	27.6	26	25	185.5	173	144	0.7	3	3
Super Crost 1890 (2X)	27.6	26	25	167.8	151	131	0.0	4	3
O's Gold SX1100 (2X)	27.7	26	26	167.6	155	128	0.0	3	2
Garno S-100 (2X)	27.8	–	–	172.9	–	–	0.0	–	–
O's Gold SX1107 (2X)	27.8	–	–	174.6	–	–	0.0	–	–
Super Crost 2350 (2X)	27.9	–	–	171.4	–	–	0.7	–	–
Blaney B606 (2X)	28.0	26	25	190.3	183	156	0.0	7	5
Pioneer 3518 (Sp.)	28.0	27	27	180.1	154	129	0.0	0	0

(Continued)

TABLE 5. (Continued)

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
DeKalb XL22 (2X)	28.1	—	—	164.2	—	—	0.7	—	—
Super Crost 2470 (2X)	28.3	—	—	168.9	—	—	0.0	—	—
Pride 5574 (2X)	28.3	27	—	178.5	183	—	0.0	1	—
*Funk G-4408 (2X)	28.5	27	—	193.6	188	—	0.0	1	—
*Gutwein 46 (2X)	28.6	27	—	194.4	180	—	0.0	1	—
Pride 5525 (2X)	28.6	26	—	179.5	173	—	0.0	1	—
Acco UC4201 (2X)	28.6	—	—	173.0	—	—	0.7	—	—
Blaney EX7606 (2X)	28.7	—	—	174.3	—	—	0.0	—	—
Bayless SX434-M (2X)	28.7	27	26	182.3	179	150	0.0	3	2
Gutwein 128 (Sp.)	28.8	28	—	173.8	172	—	0.7	0	—
Acco U356 (3X)	28.8	28	—	162.6	165	—	0.0	2	—
*Gutwein 48 (2X)	28.9	27	—	193.9	189	—	0.0	2	—
*Migro M-0301 (2X)	29.0	—	—	204.2	—	—	0.7	—	—
*Parker 36 (2X)	29.2	—	—	204.2	—	—	0.7	—	—
Dennis DS99 (2X)	29.2	—	—	159.2	—	—	0.0	—	—
Gutwein 23 (2X)	29.2	27	—	174.8	178	—	0.7	2	—
Garno S-94X (2X)	29.4	—	—	174.0	—	—	0.0	—	—
Funk G-4366 (3X)	29.6	27	27	168.8	166	139	0.0	3	2
Acco UC3301 (2X)	29.7	28	—	162.9	168	—	2.8	1	—
Michigan 575-2X (2X)	29.7	27	27	169.4	169	146	0.0	2	2
Bayless SX434-3 (2X)	29.7	28	28	156.3	147	135	0.0	0	0
Golden Harvest H-2510 (2X)	29.8	—	—	162.3	—	—	0.0	—	—
*Cargill 890 (2X)	29.8	—	—	200.9	—	—	0.0	—	—
Super Crost 4242 (2X)	30.1	28	28	168.8	169	147	1.4	4	3
Golden Harvest H-2460 (2X)	30.1	—	—	165.9	—	—	0.0	—	—
Migro M-1130 (2X)	30.7	30	29	185.7	186	149	0.0	0	0
*Dennis DS37E (2X)	30.9	—	—	192.3	—	—	1.4	—	—
*Pioneer 3535 (2X)	31.5	29	28	192.6	171	152	0.0	1	1
Dennis DS14A (2X)	31.7	—	—	169.9	—	—	0.0	—	—
*Trojan TXS113 (2X)	31.8	31	—	210.5	198	—	0.0	1	—
*Parker 60 (2X)	31.8	—	—	208.2	—	—	0.0	—	—
Prairie Stream SX3A (2X)	31.8	28	28	184.7	186	155	0.7	4	2
*Blaney B805 (2X)	31.9	—	—	209.8	—	—	0.0	—	—
McCurdy MSX60 (2X)	32.1	—	—	189.3	—	—	0.7	—	—
*Garno S-96X (2X)	32.2	—	—	195.0	—	—	0.0	—	—
*DeKalb XL64A (2X)	32.3	—	—	201.1	—	—	0.0	—	—
*Migro M-0505 (2X)	32.6	—	—	210.3	—	—	0.0	—	—
*Voris 2532 (2X)	32.6	31	—	209.3	193	—	0.0	3	—
*O's Gold SX5500A (2X)	32.9	—	—	192.6	—	—	0.0	—	—
*Gutwein 62 (2X)	33.2	31	—	206.6	189	—	0.0	2	—
*Dennis DS37 (2X)	33.2	—	—	204.1	—	—	0.0	—	—
*Golden Harvest H-2500 (2X)	33.3	31	34	213.3	191	160	0.0	5	3
Migro M-0501 (2X)	34.0	31	32	187.3	176	150	0.0	4	4
Average	28.0	26	26	176.5	169	139	0.5	3	3
Range	21.8 to 34.0	22 to 31	21 to 34	141.0 to 213.3	118 to 198	104 to 160	0.0 to 7.0	0 to 11	0 to 8
Least significant difference	1.2	0.8	0.6	15.6	9	6			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 10	May 13	May 5
Harvested	October 19	October 21	October 24
Soil Type	Kalamazoo sandy loam	Kalamazoo sandy loam	Kalamazoo sandy loam
Previous Crop	Corn	Soybeans	Soybeans
Population	23,500	22,900	19,200
Rows	28"	28"	28"
Fertilizer	244-114-18, manure	118-54-138	150-45-15
Irrigation	7 inches	6 inches	8 inches
Soil Test: pH	6.8	6.8	7.0
P	120 (very high)	87 (high)	119 (very high)
K	256 (high)	328 (very high)	235 (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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Golden Harvest H-2340 (2X)	30.8	—	—	95.5	—	—	2.1	—	—
Blaney B303A (2X)	31.0	—	—	101.8	—	—	4.2	—	—
Michigan 3102 (2X)	31.0	26	—	116.0	120	—	0.0	3	—
Michigan 333-3X (3X)	31.2	26	27	105.5	109	114	2.1	6	4
Michigan 3093 (3X)	31.3	27	—	120.0	119	—	5.1	6	—
Michigan 396-3X (3X)	31.5	27	28	93.1	103	109	0.0	3	2
Renk RK6 (2X)	31.8	—	—	89.2	—	—	3.5	—	—
Blaney B401 (2X)	31.8	28	28	111.9	121	121	3.4	8	5
Migor M-0101 (2X)	31.9	27	27	112.1	118	121	0.7	3	2
Cowbell MSX102 (2X)	31.9	28	—	107.5	113	—	4.2	5	—
Renk RK16 (2X)	32.1	—	—	91.7	—	—	0.0	—	—
Michigan EXP7501 (3X)	32.2	—	—	115.3	—	—	2.2	—	—
Golden Harvest H-2355 (2X)	32.3	28	28	93.2	108	116	0.7	4	2
Voris 2392 (2X)	32.4	—	—	115.0	—	—	2.1	—	—
McCurdy MSX24 (2X)	32.5	—	—	98.3	—	—	1.4	—	—
Super Crost 1692 (2X)	32.5	27	27	104.8	97	102	5.5	5	4
Super Crost 1901 (2X)	32.6	—	—	109.8	—	—	4.9	—	—
*Michigan 407-2X (2X)	32.7	28	29	132.9	136	137	6.3	8	6
*Payco SX775 (2X)	32.8	—	—	128.7	—	—	0.7	—	—
Pride 5525 (2X)	32.9	29	—	126.2	134	—	2.0	4	—
Parker 200 (3X)	33.0	—	—	93.2	—	—	1.4	—	—
Bayless SX214 (2X)	33.0	—	—	97.2	—	—	0.0	—	—
Cowbell PSX4100 (2X)	33.1	28	29	102.2	107	110	0.0	4	3
*Super Crost 2350 (2X)	33.2	—	—	140.8	—	—	4.9	—	—
P-A-G SX177 (2X)	33.3	—	—	101.5	—	—	0.0	—	—
*Funk G-4343 (2X)	33.3	29	31	135.2	139	143	2.0	5	4
Parker 25 (2X)	33.3	—	—	91.2	—	—	2.1	—	—
*Migro M-1130 (2X)	33.3	30	33	132.0	143	145	0.0	3	3
*Golden Harvest H-2420 (2X)	33.4	29	31	131.3	140	132	0.7	4	4
Michigan 410-2X (2X)	33.6	29	30	120.5	124	133	2.1	7	6
Michigan 572-3X (3X)	33.6	29	30	120.2	122	128	0.0	4	3
Pride 5574 (2X)	33.6	29	—	112.9	123	—	0.0	19	—
Wyckoff 1266 (2X)	33.7	29	30	109.8	123	123	4.9	13	9
P-A-G SX210 (2X)	33.7	—	—	105.7	—	—	0.7	—	—
*Pioneer 3780 (2X)	33.7	29	31	140.9	133	134	2.8	7	6
Payco SX680 (2X)	33.8	—	—	108.0	—	—	6.2	—	—
Funk G-4272 (2X)	33.9	—	—	101.5	—	—	0.0	—	—
Funk G-4408 (2X)	34.0	30	—	124.4	132	—	6.2	6	—
Michigan 4122 (2X)	34.0	29	—	127.4	135	—	1.4	2	—
Michigan 5443 (3X)	34.0	30	—	127.1	131	—	6.7	13	—
*Golden Harvest H-2450 (2X)	34.0	31	31	143.2	144	143	4.7	7	5
Golden Harvest H-2370 (2X)	34.0	—	—	101.4	—	—	2.1	—	—
Super Crost 2890 (2X)	34.0	29	32	108.1	115	115	2.8	4	3
*Migro M-0505 (2X)	34.0	—	—	133.3	—	—	4.1	—	—
Blaney EX7305 (2X)	34.0	28	28	111.8	118	122	0.0	4	4
*Acco UC3301 (2X)	34.1	—	—	144.7	—	—	2.0	—	—
*Michigan 575-2X (2X)	34.1	30	32	142.0	143	140	0.0	2	2
Funk G-4321A (2X)	34.2	—	—	127.7	—	—	4.1	—	—
P-A-G 534 (3X)	34.2	—	—	102.7	—	—	3.4	—	—
Bayless SX434M (2X)	34.2	—	—	126.3	—	—	0.0	—	—
*O's Gold SX1100 (2X)	34.3	—	—	145.3	—	—	0.0	—	—
Michigan 5802 (2X)	34.3	30	—	126.9	143	—	0.0	1	—
*Wyckoff 2414 (2X)	34.3	30	33	134.9	143	139	1.3	4	4
*Blaney EX7606 (2X)	34.3	—	—	128.5	—	—	0.7	—	—
*Adler 23X (2X)	34.4	30	—	128.8	134	—	2.1	13	—
Funk G-4366 (3X)	34.4	31	33	125.0	130	129	4.7	8	6
*Migro M-0301 (2X)	34.5	—	—	137.4	—	—	2.7	—	—
Parker 30 (2X)	34.5	—	—	107.2	—	—	0.7	—	—
Trojan TXS102 (2X)	34.5	31	—	124.7	139	—	2.7	4	—
*Super Crost S27 (2X)	34.5	30	31	140.5	128	129	1.4	9	7
*Funk G-4444 (2X)	34.6	30	31	135.4	128	131	1.4	11	7
*DeKalb XL64A (2X)	34.6	—	—	136.4	—	—	3.5	—	—
Renk RK66 (2X)	34.7	—	—	103.0	—	—	3.4	—	—
Pioneer 3773 (2X)	34.7	—	—	110.0	—	—	1.4	—	—
Blaney B606 (2X)	34.8	29	—	100.1	118	—	2.1	5	—
*Golden Harvest H-2460 (2X)	34.8	—	—	130.1	—	—	1.4	—	—
Super Crost 2470 (2X)	34.9	—	—	104.9	—	—	0.7	—	—
Funk G-4288 (2X)	35.0	30	31	120.1	126	131	2.8	10	9
*McCurdy MSX44A (2X)	35.0	—	—	128.9	—	—	1.4	—	—
*DeKalb XL22 (2X)	35.0	—	—	148.5	—	—	0.0	—	—

(Continued)

TABLE 6. (Continued)

Hybrid (Brand—Variety)	% Moisture 1976	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1976	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1976	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
P-A-G 220 (2X)	35.0	—	—	114.9	—	—	1.4	—	—
*Payco SX865 (2X)	35.1	—	—	134.6	—	—	6.7	—	—
Pioneer 3518 (Sp.)	35.2	—	—	125.4	—	—	0.7	—	—
Pioneer 3535 (2X)	35.3	31	33	117.4	136	134	0.0	1	1
Migro M-3020 (4X)	35.3	32	34	120.1	129	124	5.6	3	2
Migro M-4501 (2X)	35.3	31	—	115.8	125	—	2.1	5	—
Migro M-0501 (2X)	35.3	31	35	119.5	128	124	2.0	4	3
Pioneer 3709 (MSX)	35.3	—	—	101.2	—	—	0.0	—	—
McCurdy MSX42 (2X)	35.3	—	—	100.4	—	—	2.2	—	—
Voris 2452 (Sp.)	35.7	31	—	112.9	123	—	0.7	7	—
Average	33.7	29	30	117.6	127	127	2.2	6	4
Range	30.8 to 35.7	26 to 32	27 to 35	89.2 to 148.5	97 to 144	102 to 145	0.0 to 6.7	1 to 19	1 to 9
Least significant difference	1.2	0.9	0.7	10.8	7	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 22	May 18	June 1
Harvested	October 20	October 21	October 23
Soil Type	Carlisle muck	Carlisle muck	Carlisle muck
Previous Crop	Corn	Corn	Corn
Population	20,700	20,800	20,800
Rows	30"	30"	30"
Fertilizer	93-51-56	88-32-76	87-69-105
Soil Test: pH	5.6	5.5	5.5
P	107 (very high)	80 (high)	102 (very high)
K	533 (very high)	510 (very high)	535 (very high)

Farm Cooperator: 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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture 1976	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1976	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1976	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Michigan 280 (4X)	21.0	21	21	58.5	90	91	18.4	12	9
Michigan 333-3X (3X)	21.5	22	22	71.0	99	100	2.2	2	2
Michigan 2853 (3X)	21.7	21	21	62.9	91	95	19.7	11	8
Funk G-4141 (2X)	22.0	22	—	72.5	102	—	11.5	6	—
Renk RK3 (2X)	22.1	—	—	56.8	—	—	41.4	—	—
Michigan 3102 (2X)	22.2	22	23	65.1	101	104	7.4	5	3
Michigan 3093 (3X)	22.5	22	—	79.1	105	—	7.1	4	—
Super Crost 1692 (2X)	23.7	24	24	75.3	102	98	11.2	6	5
Wolverine W155 (2X)	23.8	—	—	54.9	—	—	13.0	—	—
Migro M-0101 (2X)	23.8	24	24	55.0	86	90	12.9	7	5
Blaney B302 (2X)	23.9	—	—	68.0	—	—	4.1	—	—
Renk RK6 (2X)	23.9	—	—	71.0	—	—	8.2	—	—
Michigan 396-3X (3X)	23.9	24	24	65.4	98	99	9.9	5	3
Blaney B605WX (2X)	24.1	—	—	57.2	—	—	27.2	—	—
Funk G-5191 (4X)	24.2	—	—	51.0	—	—	15.0	—	—
Funk G-4195 (3X)	24.2	24	23	62.3	100	100	27.1	14	10
Michigan EXP7501 (3X)	24.2	—	—	73.0	—	—	8.8	—	—
*Blaney EX7305 (2X)	24.7	—	—	82.1	—	—	11.9	—	—
Stewart 310 (Sp.)	24.7	—	—	70.6	—	—	5.7	—	—
Wolverine W128 (2X)	24.8	25	—	72.9	89	—	6.0	3	—
Dairyland DX1002 (2X)	24.9	—	—	60.8	—	—	8.1	—	—
*Acco U334 (3X)	25.0	—	—	86.8	—	—	14.5	—	—
*Super Crost 1901 (2X)	25.2	25	25	85.4	111	102	27.5	14	11
Blaney B401 (2X)	25.6	—	—	61.5	—	—	8.9	—	—
Funk G-4252 (3X)	25.6	25	25	70.8	86	91	16.7	9	6
Acco UC2301 (2X)	25.7	—	—	62.7	—	—	15.9	—	—
Michigan 572-3X (2X)	25.8	26	26	66.3	93	98	16.3	8	5
*Michigan 407-2X (2X)	25.8	25	25	80.7	110	110	13.2	7	5
Super Crost 2350 (2X)	26.1	—	—	74.5	—	—	22.6	—	—
Michigan 410-2X (2X)	26.1	25	25	72.0	100	106	10.7	7	5
DeKalb XL12 (2X)	26.1	26	25	61.1	83	86	27.5	14	9
Funk G-4343 (2X)	26.4	26	26	72.5	91	97	7.7	5	3
Michigan 4122 (2X)	26.4	26	—	78.7	107	—	4.9	2	—
Cowbell PSX4100 (2X)	26.5	26	27	72.2	89	90	23.2	12	8
Michigan 5443 (3X)	26.6	26	—	71.7	101	—	11.3	6	—
Renk RK16 (2X)	26.9	—	—	59.1	—	—	31.0	—	—
Funk G-4288 (3X)	26.9	27	27	78.5	102	104	9.2	5	4
Gutwein 40 (2X)	27.1	26	—	68.5	90	—	17.7	9	—
*Voris 2372 (2X)	27.1	—	—	86.0	—	—	14.3	—	—
*Cowbell PSX7300 (2X)	27.3	27	27	82.7	105	105	5.9	3	2
Super Crost 2470 (2X)	27.4	—	—	77.2	—	—	2.2	—	—
*Cargill 863 (2X)	27.4	—	—	84.5	—	—	19.8	—	—
Pioneer 3784 (2X)	27.4	26	26	65.5	93	94	4.3	2	2
*Michigan 5802 (2X)	27.5	28	—	82.9	114	—	2.2	2	—
*Funk G-4444 (2X)	27.6	27	28	83.6	103	103	16.0	8	6
Funk G-4366 (3X)	27.8	27	27	72.0	99	100	21.8	11	8
Cowbell PSX7440 (2X)	27.9	28	29	63.5	94	99	32.1	17	12
Trojan TXS102 (2X)	27.9	28	29	76.2	101	104	9.3	5	5
Super Crost S27 (2X)	27.9	27	28	74.9	103	107	16.2	8	6
*Pioneer 3709 (MSX)	27.9	—	—	82.6	—	—	10.7	—	—
*Gutwein 23 (2X)	28.1	29	—	85.0	110	—	24.1	12	—
Wolverine W166 (2X)	28.2	27	—	72.8	90	—	6.5	3	—
Funk G-4272 (3X)	28.3	—	—	74.4	—	—	6.9	—	—
Cowbell MSX102 (2X)	28.4	26	—	50.7	92	—	18.7	10	—
Pioneer 3780 (2X)	28.7	28	28	72.6	106	107	13.0	8	6
Wolverine W170 (2X)	28.8	28	—	74.9	103	—	17.7	10	—
Blaney B606 (2X)	28.8	—	—	65.0	—	—	0.0	—	—
DeKalb XL43 (2X)	28.8	—	—	62.7	—	—	27.4	—	—
Migro M-1130 (2X)	28.9	28	30	69.0	98	99	3.7	2	2
*Super Crost 2890 (2X)	28.9	29	—	80.1	97	—	0.7	1	—
Michigan 575-2X (2X)	28.9	28	28	76.0	101	104	7.6	5	3
DeKalb XL321 (3X)	29.6	—	—	65.5	—	—	8.1	—	—
Cowbell PSX7480 (2X)	29.6	28	28	77.7	90	95	0.8	1	1
*Funk G-4321A (2X)	29.8	—	—	80.1	—	—	8.3	—	—
Renk RK11AA (2X)	30.1	29	28	61.1	102	98	0.0	1	1
Migro M-3020 (4X)	30.7	30	30	58.6	92	94	8.8	4	3
Pioneer 3535 (2X)	30.9	29	—	65.3	94	—	3.5	2	—
Migro M-0301 (2X)	31.4	—	—	75.1	—	—	21.8	—	—
Voris 2422 (2X)	31.7	—	—	77.3	—	—	27.6	—	—
Migro M-0501 (2X)	32.4	32	34	58.0	103	102	0.0	0	0
Migro M-0505 (2X)	33.1	—	—	72.6	—	—	0.0	—	—
Gutwein 46 (2X)	33.2	32	—	79.3	107	—	0.8	2	—
Average	26.7	26	26	70.8	99	99	12.7	6	5
Range	21.0 to 33.2	21 to 32	21 to 34	50.7 to 86.0	83 to 114	86 to 110	0.0 to 41.4	0 to 17	0 to 12
Least significant difference	1.3	0.8	0.7	9.1	7	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 12	May 10	May 24
Harvested	October 21	October 22	October 25
Soil Type	Belville loam	Belville loam	Belville loam
Previous Crop	Wheat	Corn	Corn
Population	20,000	21,300	22,100
Rows	30"	30"	30"
Fertilizer	127-69-60, manure	125-64-60	142-58-120, manure
Soil Test: pH	6.7	7.3	6.5
P	88 (high)	41 (medium)	38 (low)
K	278 (high)	257 (high)	240 (high)

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

Table 8. SOUTH CENTRAL MICHIGAN Zone 2
MUSKEGON COUNTY TRIAL
One, Two, Three Year Averages — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Michigan 280 (4X)	23.1	22	24	59.0	79	79	5.3	4	2
Michigan 2853 (3X)	23.6	22	23	59.4	78	80	0.7	1	1
Michigan 3102 (2X)	25.0	24	26	70.6	100	98	0.0	1	0
Michigan 3093 (3X)	25.2	23	–	65.4	96	–	4.4	2	–
Funk G-5191 (4X)	25.9	–	–	52.4	–	–	0.0	–	–
Todd M16 (2X)	25.9	–	–	63.6	–	–	0.0	–	–
Michigan 333-3X (3X)	25.9	24	26	66.5	93	91	0.0	0	0
*Michigan EXP7501 (3X)	26.1	–	–	77.0	–	–	0.0	–	–
*Super Crost 1692 (2X)	26.3	–	–	81.6	–	–	0.0	–	–
Michigan 396-3X (3X)	26.4	25	27	62.9	91	89	0.0	0	0
Pioneer 3955 (3X)	27.7	–	–	61.5	–	–	0.0	–	–
Jacques JX40 (2X)	28.0	–	–	57.8	–	–	0.0	–	–
Funk G-4195 (3X)	28.1	26	26	70.2	90	88	0.7	1	1
Migro M-0101 (2X)	28.1	25	27	65.6	94	92	0.0	0	0
Funk G-4252 (3X)	28.7	26	28	73.1	101	93	0.7	2	1
Michigan 407-2X (2X)	29.4	27	29	76.7	102	101	1.4	1	0
Funk G-4141 (2X)	29.4	27	–	60.6	84	–	0.0	0	–
Acco UC2901 (2X)	29.5	–	–	61.3	–	–	0.0	–	–
McCurdy MSX24 (2X)	29.7	–	–	56.6	–	–	0.0	–	–
Funk G-4343 (2X)	29.8	28	29	62.1	87	85	5.1	3	2
*Michigan 4122 (2X)	29.8	28	–	77.3	108	–	1.4	1	–
Michigan 410-2X (2X)	29.8	28	30	60.2	87	85	0.0	0	0
Cowbell MSX102 (2X)	30.4	27	–	60.9	82	–	0.0	0	–
Cowbell PSX4100 (2X)	30.5	29	31	55.6	79	74	0.0	0	0
Todd MX33 (2X)	30.7	–	–	55.9	–	–	0.7	–	–
Blaney B605 WX (2X)	30.8	–	–	56.3	–	–	0.0	–	–
Blaney B303A (2X)	30.8	–	–	70.8	–	–	0.0	–	–
Todd M58 (2X)	30.8	–	–	55.6	–	–	0.0	–	–
Stewart 310 (Sp.)	31.3	–	–	59.1	–	–	1.6	–	–
*Blaney EX7605 (2X)	31.5	–	–	79.3	–	–	3.7	–	–
*Pioneer 3709 (MSX)	31.8	–	–	83.2	–	–	0.0	–	–
Michigan 572-3X (3X)	31.8	30	31	65.8	95	91	0.7	0	0
*Blaney EX7305 (2X)	32.4	30	–	85.3	113	–	0.7	1	–
Funk G-4288 (3X)	32.5	30	31	73.4	94	92	0.0	1	1
Michigan 5443 (3X)	32.6	30	–	73.2	104	–	0.0	1	–
McCurdy MSX42 (2X)	32.7	–	–	69.0	–	–	0.0	–	–
*Super Crost 2350 (2X)	32.7	–	–	77.9	–	–	0.0	–	–
DeKalb XL21A (2X)	32.8	–	–	75.8	–	–	0.0	–	–
Migro M-1130 (2X)	32.8	31	34	68.9	92	92	0.0	0	0
*Super Crost S27 (2X)	33.0	31	34	86.4	105	95	0.0	0	0
*Michigan 5802 (2X)	33.2	32	–	79.3	104	–	0.0	1	–
Pioneer 3780 (2X)	33.3	31	32	76.0	103	99	0.0	0	0
Michigan 575-2X (2X)	33.4	31	33	73.2	99	92	0.7	0	0
*Super Crost 2890 (2X)	33.5	32	34	82.7	114	100	0.0	0	0
DeKalb XL16 (2X)	33.5	–	–	66.0	–	–	0.0	–	–
Cowbell PSX7300 (2X)	33.8	31	32	62.2	100	95	0.0	0	0
*Funk G-4272 (3X)	33.8	–	–	77.7	–	–	0.0	–	–
Jacques JX124A (2X)	33.9	–	–	65.7	–	–	0.0	–	–
*Funk G-4321A (2X)	34.3	–	–	77.0	–	–	0.0	–	–
*McCurdy MSX46 (2X)	34.4	–	–	77.1	–	–	0.0	–	–
McCurdy MSX44A (2X)	34.5	–	–	63.2	–	–	0.0	–	–
*Pioneer 3535 (2X)	34.7	33	–	77.3	91	–	0.0	0	–
Funk G-4444 (2X)	35.0	32	33	67.2	100	95	0.0	0	0
Super Crost 2470 (2X)	35.4	–	–	65.4	–	–	0.0	–	–
Funk G-4366 (3X)	35.5	32	34	63.2	88	88	2.9	2	1
Migro M-0301 (2X)	35.6	–	–	68.7	–	–	0.0	–	–
Todd M59 (2X)	35.9	–	–	73.2	–	–	0.0	–	–
*Blaney B606 (2X)	35.9	34	–	77.1	106	–	0.0	0	–
*Migro M-0505 (2X)	35.9	–	–	77.7	–	–	0.0	–	–
Acco UC3301 (2X)	36.2	–	–	73.2	–	–	0.0	–	–
Average	31.1	29	30	68.9	96	91	0.5	0.6	0.4
Range	23.1 to 36.2	22 to 34	23 to 34	52.4 to 86.4	78 to 114	74 to 101	0.0 to 5.3	0 to 4	0 to 2
Least significant difference	1.3	0.9	0.7	8.0	8	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 24	May 17	June 1
Harvested	October 22	October 24	November 1
Soil Type	Nester loam	Nester loam	Nester loam
Previous Crop	Corn	Corn	Corn
Population	20,200	20,000	20,400
Rows	30"	30"	30"
Fertilizer	115-69-90	116-63-83	90-90-110
Soil Test: pH	6.9	6.7	6.2
P	44 (medium)	23 (low)	74 (high)
K	190 (medium)	126 (low)	80 (low)

Farm Cooperator: Robert Bonthuis, Ravenna
County Extension Director: Harold Ferris, Muskegon

Table 9. SOUTH CENTRAL MICHIGAN Zone 2
INGHAM COUNTY TRIAL — GRAIN
One, Two, Three Year Averages — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Michigan 2853 (3X)	23.6	24	–	84.6	101	–	0.0	0	–
Michigan 280 (4X)	24.1	24	25	76.8	94	94	4.8	3	2
Dairyland DX1008 (2X)	24.4	–	–	65.9	–	–	0.0	–	–
Funk G-5191 (4X)	24.5	–	–	79.4	–	–	0.0	–	–
Super Crost 1610 (2X)	24.6	26	–	84.1	94	–	3.2	2	–
Funk G-4141 (2X)	24.7	26	–	67.7	105	–	0.0	0	–
Michigan 333-3X (3X)	24.8	25	26	91.8	109	112	2.8	2	1
Warwick TX27 (3X)	24.9	25	28	76.7	98	97	1.5	1	1
Michigan 3093 (3X)	25.2	25	–	93.6	116	–	0.9	1	–
Michigan 396-3X (3X)	25.2	26	28	79.6	108	115	0.0	0	0
Michigan EXP7501 (3X)	25.5	–	–	93.3	–	–	3.7	–	–
Garno S-92X (2X)	25.9	–	–	89.8	–	–	0.0	–	–
Blaney B302 (2X)	25.9	25	27	79.0	100	102	0.8	1	1
P-A-G SX177 (2X)	25.9	26	–	75.2	110	–	0.0	0	–
Michigan 3102 (2X)	25.9	26	–	83.9	114	–	0.0	0	–
Super Crost 1692 (2X)	26.0	26	28	68.6	86	91	0.8	1	1
Warwick TX32 (3X)	26.1	27	–	89.1	103	–	1.7	1	–
Wolverine W155 (2X)	26.1	–	–	99.2	–	–	3.6	–	–
Pick 323 (Sp.)	26.2	–	–	74.7	–	–	0.0	–	–
Migro M-0101 (2X)	26.4	26	27	79.4	107	107	0.7	0	0
Renk RW2WX (2X)	26.6	–	–	98.6	–	–	0.7	–	–
Funk G-4252 (3X)	26.6	–	–	95.5	–	–	2.2	–	–
Warwick SL314 (2X)	26.6	28	–	83.8	107	–	0.8	0	–
Funk G-4195 (3X)	26.7	–	–	86.5	–	–	0.7	–	–
Jacques JX92 (2X)	26.8	–	–	81.3	–	–	1.5	–	–
Warwick SL501 (2X)	26.8	28	29	105.0	127	118	0.0	0	0
Michigan 410-2X (2X)	26.8	28	30	99.4	130	131	2.2	1	1
*Renk RK16 (2X)	26.8	27	–	110.2	122	–	0.7	1	–
Acco U334 (3X)	27.1	–	–	100.7	–	–	1.5	–	–
*Michigan 407-2X (2X)	27.1	28	29	108.6	136	136	0.8	1	1
*Golden Harvest H-2420 (2X)	27.1	29	31	109.5	136	132	0.0	0	0
Golden Harvest H-2355 (2X)	27.2	28	29	92.4	113	119	0.0	0	0
*Cowbell PSX4100 (2X)	27.2	29	31	110.4	122	120	0.7	0	0
*Michigan 4122 (2X)	27.2	28	–	116.0	138	–	0.0	0	–
Pride 5574 (2X)	27.3	–	–	106.3	–	–	0.0	–	–
Renk RK44 (2X)	27.4	29	–	100.4	127	–	0.0	0	–
Wilstar 3338 (2X)	27.4	–	–	87.7	–	–	2.5	–	–
Michigan 572-3X (3X)	27.5	29	31	95.5	122	125	2.2	1	1
Security SS105 (2X)	27.6	29	–	88.7	127	–	0.0	0	–
Jacques JX52 (2X)	27.6	–	–	89.6	–	–	0.0	–	–
*Garno S-82 (2X)	27.8	–	–	122.3	–	–	2.9	–	–
Gutwein 40 (2X)	27.9	30	–	102.1	125	–	0.7	1	–
Asgrow RX58 (2X)	28.0	29	–	100.5	131	–	1.4	1	–
Stewart 310 (Sp.)	28.0	–	–	94.4	–	–	0.8	–	–
Funk G-4343 (2X)	28.1	29	30	100.8	130	127	0.0	1	1
Michigan 5443 (3X)	28.1	30	–	107.6	133	–	1.7	1	–
Voris 2392 (2X)	28.1	–	–	94.4	–	–	0.7	–	–
*Voris 2372 (2X)	28.1	–	–	120.9	–	–	0.7	–	–
Dairyland DX1002 (2X)	28.2	–	–	92.1	–	–	0.0	–	–
Americana 1776 (2X)	28.3	–	–	99.0	–	–	0.0	–	–
Super Crost S27 (2X)	28.3	30	31	101.1	131	132	0.0	0	0
Wolverine W166 (2X)	28.3	–	–	101.0	–	–	0.8	–	–
Blaney EX7305 (2X)	28.5	28	29	79.9	104	109	0.0	0	1
Jung JX95 (2X)	28.6	–	–	83.2	–	–	0.8	–	–
Funk G-4272 (3X)	28.6	–	–	102.2	–	–	0.0	–	–

(Continued)

TABLE 9. (Continued)

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Americana 2800 (2X)	28.7	—	—	91.5	—	—	1.5	—	—
Security SS102 (2X)	28.7	—	—	86.5	—	—	0.8	—	—
Garno S-94X (2X)	28.7	—	—	77.7	—	—	0.0	—	—
*Golden Harvest H-2450 (2X)	28.8	30	31	117.7	142	138	0.0	0	0
Trojan TX100 (3X)	28.9	—	—	82.1	—	—	4.2	—	—
P-A-G SX210 (2X)	28.9	30	—	92.2	126	—	1.6	1	—
Americana 2400 (2X)	29.1	—	—	77.7	—	—	0.0	—	—
*Pioneer 3709 (MSX)	29.1	—	—	111.1	—	—	0.0	—	—
Munch Chief SX442 (2X)	29.3	30	—	82.1	92	—	0.0	0	—
Renk R236 (3X)	29.4	—	—	91.8	—	—	1.6	—	—
*Blaney B605WX (2X)	29.6	—	—	109.8	—	—	0.8	—	—
Jacques JX162 (2X)	29.7	—	—	85.4	—	—	0.0	—	—
Cowbell PSX7300 (2X)	29.7	31	32	94.6	126	127	5.6	3	2
Funk G-4444 (2X)	29.8	30	32	99.7	130	133	0.0	0	0
Funk G-4321A (2X)	29.9	—	—	106.4	—	—	0.0	—	—
Cargill 434 (3X)	29.9	32	32	102.9	127	122	0.0	0	0
*Funk G-4366 (3X)	29.9	31	33	108.5	125	124	0.7	1	1
Michigan 575-2X (2X)	30.0	31	32	105.4	134	135	0.0	0	0
Asgrow RX2345 (2X)	30.0	—	—	92.4	—	—	1.6	—	—
Pick XR44 (2X)	30.0	—	—	96.6	—	—	0.0	—	—
Migro M-1130 (2X)	30.0	31	33	101.4	133	132	0.0	0	0
Golden Harvest H-2460 (2X)	30.1	—	—	101.0	—	—	0.0	—	—
*McCurdy MSX42 (2X)	30.3	—	—	116.2	—	—	0.0	—	—
P-A-G 220 (2X)	30.5	—	—	95.1	—	—	0.0	—	—
Cargill 863 (2X)	30.5	31	31	94.2	127	127	0.0	0	0
*Pride 5525 (2X)	30.5	31	—	108.8	140	—	0.0	0	—
Muncy Chief SX550 (2X)	30.5	32	34	86.6	111	108	1.6	1	1
*Cowbell PSX7480 (2X)	30.6	32	34	110.8	114	116	0.0	0	0
*Michigan 5802 (2X)	30.6	31	—	117.5	146	—	0.8	0	—
*Super Crost 2350 (2X)	30.7	—	—	117.2	—	—	0.0	—	—
Migro M-3020 (4X)	30.7	32	34	91.5	117	117	0.7	0	0
Super Crost 2890 (2X)	30.8	32	33	104.9	130	127	0.0	0	0
*P-A-G SX69 (2X)	30.9	32	33	114.3	127	121	0.0	0	0
Trojan TXS102 (2X)	30.9	32	33	99.5	122	128	0.0	0	0
Wolverine W170 (2X)	30.9	32	—	103.5	128	—	0.8	0	—
*Funk G-4288 (3X)	31.0	—	—	111.0	—	—	0.0	—	—
*McCurdy MSX46 (2X)	31.0	—	—	122.9	—	—	0.0	—	—
P-A-G 534 (3X)	31.2	—	—	92.9	—	—	0.0	—	—
Acco UC3301 (2X)	31.3	32	33	92.7	127	131	1.4	1	0
Stewart 3-3301 (Sp.)	31.4	32	33	95.8	120	119	0.0	0	0
*Jung JX111 (2X)	31.5	—	—	121.3	—	—	0.8	—	—
*Pioneer 3780 (2X)	31.6	32	33	110.6	133	136	0.0	0	0
Super Crost 2470 (2X)	31.6	—	—	96.7	—	—	0.0	—	—
Cargill 848 (2X)	31.8	—	—	91.1	—	—	0.0	—	—
*Wolverine W174 (2X)	32.0	33	34	113.4	132	127	0.7	0	0
*Gutwein 46 (2X)	32.2	33	—	118.0	143	—	0.0	;	—
Garno S-100 (2X)	32.4	—	—	93.8	—	—	0.8	—	—
Gutwein 23 (2X)	32.5	33	—	88.8	125	—	0.0	0	—
*Cardinal SX112 (2X)	32.5	32	33	108.6	133	131	0.8	1	1
Super Crost 1901 (2X)	32.6	32	33	88.0	110	114	0.0	0	0
Muncy Chief SX662 (2X)	32.8	34	36	93.8	116	116	0.0	0	0
*Pioneer 3535 (2X)	32.8	34	—	117.8	127	—	0.7	0	—
Migro M-0301 (2X)	32.9	—	—	93.4	—	—	3.5	—	—
Blaney B606 (2X)	33.2	33	34	100.1	123	130	0.0	0	0
Americana 3006 (2X)	33.3	—	—	106.4	—	—	0.0	—	—
Migro M-4501 (2X)	33.6	—	—	88.5	—	—	0.0	—	—
Garno S-96X (2X)	34.1	—	—	104.6	—	—	0.8	—	—
Muncy Chief SX878 (2X)	34.1	36	37	98.5	102	103	0.0	0	0
Cowbell 80A (4X)	34.1	—	—	90.0	—	—	0.0	—	—
Wilstar 5555 (2X)	34.2	—	—	88.7	—	—	0.0	—	—
*Golden Harvest H-2500 (2X)	34.3	35	37	119.5	123	127	0.0	0	0
Muncy Chief H764 (4X)	34.7	34	36	102.3	121	114	0.8	0	0
*Migro M-0505 (2X)	34.8	—	—	124.8	—	—	0.0	—	—
*Migro M-0501 (2X)	34.9	36	37	110.1	114	115	0.0	0	0
Average	29.1	30	32	97.1	121	121	0.7	0.4	0.3
Range	23.6 TO 34.9	24 TO 36	25 TO 37	65.9 TO 124.8	86 TO 146	91 TO 138	0.0 TO 5.6	0 TO 3	0 TO 2.4
Least significant difference	1.4	0.9	0.6	11.2	8	6			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	April 30	May 3	April 27
Harvested	September 27	September 29	October 7
Soil Type	Conover clay loam	Conover clay loam	Conover clay loam
Previous Crop	Corn	Corn	Corn
Population	19,800	20,500	19,700
Rows	36"	36"	36"
Fertilizer	157-57-57	136-36-36	134-0-48
Soil Test: pH	6.3	6.4	6.8
P	86 (high)	18 (low)	80 (high)
K	174 (medium)	245 (high)	175 (medium)

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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Dry Matter			Tons per Acre: Green Weight			Tons per Acre: Dry Weight		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Funk G-5191 (4X)	41.7	—	—	9.3	—	—	3.8	—	—
Michigan 280 (4X)	41.0	42.0	49.5	12.7	14.2	15.2	5.2	6.0	6.1
Super Crost 1610 (2X)	40.9	38.6	—	13.1	14.0	—	5.3	5.3	—
Jacques JX92 (2X)	39.7	—	—	11.7	—	—	4.7	—	—
Warwick TX32 (3X)	39.4	37.3	—	9.9	12.9	—	3.9	4.7	—
Michigan 2853 (3X)	39.2	40.9	—	13.0	14.1	—	5.2	5.8	—
Stewart 310 (Sp.)	38.2	—	—	12.0	—	—	4.6	—	—
Blaney B302 (2X)	38.2	40.1	47.3	13.1	13.7	14.7	5.0	5.5	5.7
Jung JX95 (2X)	38.2	—	—	11.3	—	—	4.3	—	—
Michigan 333-3X (3X)	38.2	39.3	46.4	13.9	15.3	15.9	5.3	6.0	6.0
Wilstar 3338 (2X)	38.2	—	—	11.0	—	—	4.2	—	—
Funk G-4141 (2X)	38.2	37.9	—	14.1	16.5	—	5.4	6.2	—
Warwick TX27 (3X)	37.9	37.4	44.0	9.2	13.8	14.7	3.4	5.1	5.2
Michigan 3093 (3X)	37.8	—	—	16.3	—	—	6.2	—	—
Pick XR44 (2X)	37.8	—	—	15.9	—	—	6.0	—	—
Michigan 396-3X (3X)	37.6	36.1	43.8	17.1	18.5	18.3	6.4	6.6	6.5
Jung JX111 (2X)	37.6	—	—	18.1	—	—	6.8	—	—
P-A-G 534 (3X)	37.6	—	—	12.7	—	—	4.8	—	—
Wolverine W155 (2X)	37.5	—	—	16.3	—	—	6.1	—	—
Funk G-4272 (3X)	37.5	—	—	18.0	—	—	6.7	—	—
Dairyland DX1008 (2X)	37.3	—	—	15.7	—	—	5.9	—	—
P-A-G SX177 (2X)	37.2	34.9	—	16.0	19.2	—	5.9	6.2	—
Michigan 3102 (2X)	37.1	35.7	—	16.2	18.6	—	6.0	6.6	—
Dairyland DX1002 (2X)	36.8	—	—	15.5	—	—	5.6	—	—
Renk RW2-WX (2X)	36.7	—	—	16.7	—	—	6.1	—	—
Muncy Chief SX442 (2X)	36.6	35.4	—	13.7	15.5	—	5.0	5.4	—
Asgrow RX58 (2X)	36.6	34.3	—	15.5	19.0	—	5.6	6.4	—
Warwick SL501 (2X)	36.6	36.3	43.0	13.9	16.2	16.8	5.1	5.8	6.0
Migro M-0101 (2X)	36.5	37.6	45.1	16.2	17.5	17.4	5.9	6.6	6.5
Michigan EXP7501 (3X)	36.5	—	—	18.6	—	—	6.8	—	—
Funk G-4195 (3X)	36.5	—	—	17.8	—	—	6.5	—	—
Garno S-92X (2X)	36.5	—	—	13.9	—	—	5.0	—	—
Cargill 434 (3X)	36.5	33.7	40.4	15.4	20.0	19.6	5.6	6.6	6.5
Super Crost 1692 (2X)	36.4	38.2	45.6	16.3	16.8	16.5	5.9	6.4	6.2
Trojan TX100 (3X)	36.3	—	—	14.4	—	—	5.0	—	—
Golden Harvest H-2355 (2X)	36.3	37.5	43.9	14.5	16.1	15.6	5.3	6.0	5.9
Michigan 407-2X (2X)	36.2	35.2	42.6	14.6	18.0	18.1	5.3	6.3	6.3
Funk G-4252 (3X)	36.2	—	—	14.9	—	—	5.4	—	—
Americana 1776 (2X)	36.2	—	—	14.6	—	—	5.3	—	—
Blaney EX7305 (2X)	36.2	35.0	42.4	18.5	20.1	19.2	6.6	6.9	6.8
Garno S-82 (2X)	36.2	—	—	18.0	—	—	6.5	—	—
Wolverine W166 (2X)	36.1	—	—	14.4	—	—	5.2	—	—
Renk R236 (3X)	35.8	—	—	14.3	—	—	5.1	—	—
Funk G-4288 (3X)	35.8	34.1	41.3	15.1	19.6	19.2	5.4	6.6	6.5
Cargill 863 (2X)	35.5	33.7	41.4	14.5	18.9	18.3	5.1	6.2	6.2
Cargill 848 (2X)	35.4	—	—	16.2	—	—	5.7	—	—
Michigan 410-2X (2X)	35.4	34.3	41.1	15.9	19.6	19.5	5.6	6.6	6.4
Pick 323 (Sp.)	35.3	—	—	15.9	—	—	5.6	—	—
Jacques JX162 (2X)	34.8	—	—	14.9	—	—	5.2	—	—
Americana 2800 (2X)	34.7	—	—	20.8	—	—	7.2	—	—
Pride 5574 (2X)	34.7	—	—	19.1	—	—	6.6	—	—
Michigan 4122 (2X)	34.6	34.1	—	20.4	21.4	—	7.0	7.2	—
Renk RK16 (2X)	34.5	35.7	—	14.5	16.2	—	5.0	5.8	—
Muncy Chief SX550	34.5	31.8	38.1	15.1	18.0	17.5	5.2	5.6	5.7
Golden Harvest H-2450 (2X)	34.5	33.2	39.9	15.9	20.3	19.2	5.5	6.7	6.5

(Continued)

TABLE 10. (Continued)

Hybrid (Brand—Variety)	% Dry Matter			Tons per Acre: Green Weight			Tons per Acre: Dry Weight		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Funk G-4366 (3X)	34.3	33.0	39.2	18.8	21.7	20.5	6.4	7.1	6.8
Warwick SL314 (2X)	34.2	36.1	–	15.0	16.4	–	5.2	6.0	–
Jacques JX52 (2X)	34.2	–	–	14.8	–	–	5.0	–	–
Garno S-94X (2X)	34.1	–	–	14.7	–	–	5.0	–	–
Cowbell PSX4100 (2X)	34.1	32.4	39.5	15.2	18.0	17.4	5.2	5.8	5.6
Gutwein 40 (2X)	33.9	33.9	–	19.6	20.5	–	6.6	6.9	–
Michigan 572-3X (3X)	33.9	33.0	40.0	16.8	19.8	19.8	5.7	6.5	6.5
Gutwein 23 (2X)	33.8	31.9	–	20.2	23.6	–	6.8	7.4	–
Super Crost 1901 (2X)	33.8	32.1	39.8	19.6	19.8	19.7	6.6	6.3	6.4
Super Crost S27 (2X)	33.8	34.0	40.8	17.2	19.2	18.8	5.8	6.5	6.6
Michigan 5443 (3X)	33.7	32.7	–	19.3	21.5	–	6.5	7.0	–
Blaney B605WX (2X)	33.6	–	–	19.2	–	–	6.5	–	–
Security SS105 (2X)	33.6	32.8	–	16.7	19.0	–	5.6	6.2	–
Michigan 575-2X (2X)	33.6	32.6	39.4	19.2	22.1	22.0	6.5	7.2	7.2
Funk G-4343 (2X)	33.5	32.7	40.7	19.4	21.7	20.7	6.5	7.1	7.0
Funk G-4444 (2X)	33.5	32.7	39.4	17.9	21.5	20.4	6.0	7.0	6.8
Migro M-1130 (2X)	33.5	32.8	38.3	17.2	19.1	18.8	5.8	6.2	6.1
Golden Harvest H-2420 (2X)	33.5	32.7	39.7	17.6	21.2	21.3	5.9	6.7	7.0
Voris 2372 (2X)	33.4	–	–	16.8	–	–	5.6	–	–
Trojan TXS102 (2X)	33.4	32.7	39.4	17.4	20.3	19.2	5.8	6.6	6.4
P-A-G SX210 (2X)	33.2	32.8	–	17.3	19.7	–	5.7	6.4	–
Pioneer 3780 (2X)	33.2	32.5	39.0	18.0	21.8	21.2	6.0	7.0	7.1
Muncy Chief SX662 (2X)	33.2	31.7	37.4	18.8	21.6	20.9	6.2	6.7	6.6
Wolverine W170 (2X)	33.2	30.6	–	17.8	20.1	–	5.8	6.0	–
Funk G-4321A (2X)	33.1	–	–	18.2	–	–	6.0	–	–
Acco U334 (3X)	33.1	–	–	16.3	–	–	5.4	–	–
Super Crost 2350 (2X)	32.9	–	–	17.8	–	–	5.8	–	–
Voris 2392 (2X)	32.9	–	–	20.9	–	–	6.9	–	–
McCurdy MSX42 (2X)	32.7	–	–	18.0	–	–	5.9	–	–
Stewart 3-3301 (Sp.)	32.5	32.2	39.4	17.2	20.7	20.6	5.6	6.6	6.8
Cowbell PSX7300 (2X)	32.5	32.1	39.4	17.5	19.4	19.3	5.7	6.2	6.1
Pioneer 3709 (MSX)	32.5	–	–	18.6	–	–	6.0	–	–
Security SS102 (2X)	32.2	–	–	17.1	–	–	5.4	–	–
Michigan 5802 (2X)	32.2	31.3	–	20.2	23.3	–	6.5	7.2	–
Pioneer 3535 (2X)	31.8	29.6	–	19.8	22.7	–	6.3	6.6	–
Golden Harvest H-2460 (2X)	31.8	–	–	19.7	–	–	6.3	–	–
Migro M-3020 (4X)	31.8	29.7	36.0	23.0	26.0	24.7	7.3	7.6	7.4
Renk RK44 (2X)	31.6	31.7	–	17.4	20.9	–	5.5	6.6	–
Super Crost 2470 (2X)	31.5	–	–	21.8	–	–	6.9	–	–
Americana 2400 (2X)	31.3	–	–	19.8	–	–	6.1	–	–
P-A-G SX69 (2X)	31.1	31.2	37.6	18.0	20.4	19.0	5.6	6.3	5.9
P-A-G 220 (2X)	31.0	–	–	17.4	–	–	5.4	–	–
Cardinal SX112 (2X)	30.8	31.7	38.6	18.6	18.7	18.1	5.7	5.9	5.9
McCurdy MSX46 (2X)	30.6	–	–	18.0	–	–	5.5	–	–
Cowbell PSX7480 (2X)	30.5	29.0	35.2	21.5	22.0	21.8	6.5	6.3	6.6
Migro M-0301 (2X)	30.4	–	–	22.0	–	–	6.4	–	–
Pride 5525 (2X)	30.2	30.1	–	18.0	20.7	–	5.5	6.2	–
Super Crost 2890 (2X)	29.7	30.1	35.6	18.0	21.6	21.7	5.4	6.5	6.5
Garno S-100 (2X)	29.7	–	–	19.6	–	–	5.8	–	–
Gutwein 46 (2X)	29.6	29.6	–	19.2	22.2	–	5.7	6.5	–
Migro M-4501 (2X)	29.6	–	–	23.0	–	–	6.8	–	–
Wolverine W174 (2X)	29.5	30.4	35.5	18.2	20.6	21.0	5.4	6.3	6.3
Wilstar 5555 (2X)	29.1	–	–	17.2	–	–	5.0	–	–
Cowbell 80A (4X)	29.0	–	–	21.4	–	–	6.2	–	–
Garno S-96X (2X)	28.8	–	–	19.1	–	–	5.5	–	–
Acco UC3301 (2X)	28.8	29.5	36.8	22.6	23.6	21.3	6.5	6.9	6.6
Muncy Chief H764 (4X)	28.5	28.0	34.5	19.1	25.0	24.0	5.5	7.0	6.8
Americana 3006 (2X)	28.4	–	–	20.6	–	–	5.9	–	–
Blaney B606 (2X)	28.3	28.9	36.9	18.4	19.2	19.1	5.2	5.5	5.6
Golden Harvest H-2500 (2X)	27.6	28.3	33.7	26.5	27.0	26.5	7.3	7.6	7.5
Migro M-0501 (2X)	27.5	27.6	31.7	21.5	22.8	22.2	5.9	6.3	6.3
Migro M-0505 (2X)	27.4	–	–	20.3	–	–	5.5	–	–
Asgrow 2345 (2X)	27.3	–	–	20.4	–	–	5.5	–	–
Muncy Chief SX878 (2X)	25.3	27.4	31.6	19.2	22.2	21.9	4.9	5.9	5.8
Average	34.1	33.4	39.8	17.0	19.5	19.4	5.7	6.3	6.3
Range	25.3 to 41.7	27.4 to 42.0	31.6 to 49.5	9.2 to 26.5	12.9 to 27.0	14.7 to 26.5	3.4 to 7.3	4.7 to 7.6	5.2 to 7.5
Least significant difference	1.4	1.0	0.7	1.4	0.8	0.6	0.5	0.5	0.4

	1976	1975	1974
Planted	April 30	May 3	April 27
Harvested	August 31	August 28	September 10
Soil Type	Conover clay loam	Conover clay loam	Conover clay loam
Previous Crop	Corn	Corn	Corn
Population	19,300	20,400	19,200
Rows	36"	36"	36"
Fertilizer	157-57-57	136-36-36	130-0-48
Soil Test: pH	6.3	6.4	6.8
P	86 (high)	18 (low)	80 (high
K	174 (medium)	245 (high)	175 (medium)

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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
P-A-G 145 (2X)	27.3	–	–	78.6	–	–	0.0	–	–
Michigan 2853 (3X)	27.5	24	25	88.4	110	111	0.0	0	0
Michigan 280 (4X)	27.8	24	25	85.8	104	104	0.0	0	1
Michigan EXP7502 (3X)	27.9	–	–	95.6	–	–	0.0	–	–
Funk G-5191 (4X)	30.0	–	–	99.8	–	–	0.8	–	–
Wolverine W128 (2X)	30.1	27	–	94.7	114	–	0.0	0	–
Asgrow RX32 (MSX)	30.1	27	–	81.9	106	–	0.0	0	–
Pioneer 3965 (3X)	30.8	28	27	103.3	115	109	0.0	0	0
Stewart 290 (Sp.)	30.9	–	–	104.7	–	–	0.0	–	–
Dairyland DX1002 (2X)	30.9	–	–	104.5	–	–	0.0	–	–
Michigan 333-3X (3X)	31.0	27	28	104.6	126	121	0.0	0	0
Michigan 3093 (3X)	31.2	28	–	110.1	127	–	0.0	0	–
Stewart 310 (Sp.)	31.6	–	–	101.1	–	–	0.0	–	–
Trojan TXS94 (2X)	31.9	29	–	105.1	124	–	0.0	0	–
Funk G-4141 (2X)	31.9	29	–	105.9	117	–	0.0	0	–
Super Crost 1610 (2X)	31.9	–	–	90.3	–	–	0.0	–	–
Blaney B303A (2X)	32.0	–	–	104.8	–	–	0.0	–	–
Golden Harvest H-2290 (3X)	32.0	–	–	104.8	–	–	0.0	–	–
*Michigan 3102 (2X)	32.1	28	28	116.6	133	128	0.8	0	0
Security SS97 (2X)	32.1	30	–	111.0	133	–	0.0	0	–
Pioneer 3958 (2X)	32.2	28	29	104.4	127	123	0.0	0	0
Funk G-4195 (3X)	32.2	28	28	101.4	123	118	0.0	0	1
Cargill 825 (2X)	32.4	–	–	99.5	–	–	0.0	–	–
Funk G-4252 (3X)	32.5	30	29	95.2	115	109	0.0	0	0
Garno S-77 (2X)	32.7	–	–	106.2	–	–	0.0	–	–
*Blaney EX7305 (2X)	32.9	29	29	119.3	141	132	0.0	0	0
Blaney B401 (2X)	33.0	29	30	102.7	125	121	0.0	0	0
Super Crost 1692 (2X)	33.0	29	28	104.0	110	110	0.0	0	0
*Wolverine W155 (2X)	33.0	–	–	115.7	–	–	1.5	–	–
Michigan 396-3X (3X)	33.1	30	30	103.2	126	121	0.0	0	0
*P-A-G SX177 (2X)	33.1	30	–	121.2	132	–	0.0	0	–
DeKalb XL12 (2X)	33.3	29	28	96.5	118	112	0.0	0	0
*Michigan EXP7501 (3X)	33.3	–	–	116.0	–	–	0.0	–	–
*Renk RW2-WX (2X)	33.3	–	–	116.4	–	–	0.0	–	–
*Garno S-82 (2X)	33.6	–	–	117.5	–	–	0.0	–	–
Cargill 848 (2X)	33.8	–	–	104.7	–	–	0.0	–	–
Michigan 407-2X (2X)	33.8	30	31	113.5	137	131	0.0	0	0
Wolverine W166 (2X)	34.0	31	32	95.3	133	124	0.0	1	1
Hulting X310 (2X)	34.1	–	–	88.3	–	–	0.0	–	–
*DeKalb XL16 (2X)	34.1	30	32	122.5	142	130	0.0	0	0
Garno S-92 (2X)	34.1	32	33	93.8	121	115	0.0	0	0
Garno S-92X (2X)	34.1	–	–	89.4	–	–	0.0	–	–
Gutwein 40 (2X)	34.2	31	–	111.5	142	–	0.0	0	–
Renk R236 (3X)	34.2	–	–	99.0	–	–	0.0	–	–
Acco UC2901 (2X)	34.4	31	–	105.1	132	–	0.0	0	–
*Michigan 4122 (2X)	34.4	31	–	120.5	139	–	0.0	0	–
Michigan 410-2X (2X)	34.4	30	31	113.1	136	130	0.0	0	0
Jacques JX122A (2X)	34.4	32	–	104.3	132	–	0.0	0	–
Gutwein 112 (Sp.)	34.5	–	–	103.5	–	–	0.0	–	–
Funk G-4288 (3X)	34.5	31	33	112.1	138	128	0.0	0	0

(Continued)

TABLE 11. (Continued)

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Pride 4404 (2X)	34.6	31	–	93.3	129	–	0.0	0	–
Funk G-4343 (2X)	34.6	31	31	104.4	127	120	0.0	0	0
*P-A-G 534 (3X)	34.6	–	–	118.3	–	–	0.0	–	–
Blaney EX7606 (2X)	34.6	–	–	104.0	–	–	0.0	–	–
*Funk G-4272 (3X)	34.6	–	–	118.4	–	–	0.0	–	–
Michigan 572-3X (3X)	34.8	32	33	101.0	128	121	0.0	0	0
Pioneer 3709 (MSX)	35.0	–	–	106.3	–	–	0.0	–	–
Golden Harvest H-2460 (2X)	35.1	–	–	99.9	–	–	0.0	–	–
Gutwein 22 (2X)	35.2	–	–	106.2	–	–	0.0	–	–
Super Crost 2350 (2X)	35.2	–	–	91.3	–	–	0.0	–	–
*Pioneer 3780 (2X)	35.2	32	34	116.0	142	126	0.0	0	0
P-A-G SX210 (2X)	35.2	34	–	96.9	123	–	0.0	0	–
Migro M-1130 (2X)	35.2	34	36	99.0	123	115	0.0	0	0
Security SS102 (2X)	35.3	–	–	90.9	–	–	0.0	–	–
Gutwein 10A (2X)	35.5	32	–	105.3	119	–	0.0	0	–
Security SS105 (2X)	35.7	33	–	99.9	132	–	0.0	0	–
Funk G-4321A (2X)	35.7	–	–	107.8	–	–	0.0	–	–
Cargill 434 (3X)	35.7	–	–	100.3	–	–	0.0	–	–
Funk G-4444 (2X)	35.7	33	34	104.6	134	129	0.0	0	0
*Pride 5525 (2X)	35.7	–	–	116.1	–	–	0.0	–	–
Golden Harvest H-2450 (2X)	35.7	–	–	114.2	–	–	0.0	–	–
P-A-G 220 (2X)	35.7	–	–	94.0	–	–	0.0	–	–
Renk RK44 (2X)	36.0	–	–	95.9	–	–	0.0	–	–
Michigan 5443 (3X)	36.0	33	–	107.2	134	–	0.0	1	–
Michigan 5802 (2X)	36.0	34	–	114.2	136	–	0.0	0	–
*Super Crost S27 (2X)	36.0	34	34	115.9	140	128	0.0	0	0
Trojan TXS102 (2X)	36.0	33	–	109.3	142	–	0.0	0	–
Cargill 449 (3X)	36.0	–	–	99.8	–	–	0.0	–	–
Hulting X322 (2X)	36.0	–	–	91.1	–	–	0.0	–	–
Migro M-3020 (4X)	36.0	–	–	87.3	–	–	0.0	–	–
*Michigan 575-2X (2X)	36.0	33	34	115.7	141	130	0.0	0	0
Migro M-0301 (2X)	36.0	–	–	104.9	–	–	0.0	–	–
Super Crost 2470 (2X)	36.0	–	–	94.5	–	–	0.0	–	–
Super Crost 2890 (2X)	36.0	34	36	107.0	136	123	0.0	0	0
*Blaney B606 (2X)	36.0	–	–	115.5	–	–	0.0	–	–
Acco UC3301	36.0	34	–	104.6	128	–	0.0	0	–
Average	33.7	30	31	104.0	128	121	0.0	0	0
Range	27.3 to 36.0	24 to 34	25 to 36	78.6 to 122.5	104 to 142	104 to 132	0.0 to 1.5	0 to 1	0 to 1
Least significant difference	1.1	0.9	0.6	11.2	7	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 20	May 15	May 22
Harvested	October 21	October 22	October 25
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Corn	Corn	Corn
Population	20,900	20,400	21,400
Rows	30"	30"	30"
Fertilizer	113-30-120	30-30-30	122-88-88
Soil Test: pH	6.9	7.0	6.6
P	78 (high)	83 (high)	51 (medium)
K	180 (medium)	195 (medium)	241 (high)

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

Table 12. NORTH CENTRAL MICHIGAN Zone 3
SANILAC COUNTY TRIAL — SILAGE
One and Two Year Averages — 1976, 1975

Hybrid (Brand—Variety)	% Dry Matter		Tons per Acre: Green Weight		Tons per Acre: Dry Weight	
	1976	2 yrs.	1976	2 yrs.	1976	2 yrs.
P-A-G 145 (2X)	35.0	–	13.7	–	4.8	–
Pioneer 3958 (2X)	34.6	38.2	14.9	15.2	5.0	5.7
Cargill 825 (2X)	34.5	–	14.2	–	5.0	–
Michigan 280 (4X)	34.5	37.1	15.1	16.0	5.2	5.9
Michigan 2853 (3X)	34.3	35.4	14.0	15.9	4.8	5.6
Funk G-5191 (4X)	32.6	–	16.3	–	5.3	–
Michigan 3093 (3X)	32.6	32.3	15.3	19.8	5.0	6.3
Dairyland DX1002 (2X)	32.3	–	14.1	–	4.5	–
Michigan EXP7502 (3X)	32.2	–	15.8	–	5.1	–
DeKalb XL12 (2X)	32.1	32.7	15.3	17.6	4.9	5.7
Michigan 333-3X (3X)	32.1	33.6	15.0	17.5	4.8	5.9
Funk G-4195 (3X)	32.0	33.1	16.9	19.6	5.4	6.5
Gurwein 112 (Sp.)	32.0	–	16.6	–	5.3	–
Wolverine W128 (2X)	32.0	33.1	13.9	15.8	4.4	5.2
Golden Harvest H-2290 (3X)	31.9	–	13.0	–	4.1	–
Michigan 396-3X (3X)	31.9	33.2	17.2	19.8	5.5	6.6
Super Crost 1692 (2X)	31.9	34.1	17.6	18.0	5.6	6.1
Funk G-4288 (3X)	31.8	31.6	17.5	20.6	5.6	6.5
Michigan 3102 (2X)	31.8	32.5	16.7	20.0	5.3	6.5
Michigan EXP7501 (3X)	31.8	–	16.4	–	5.2	–
Asgrow RX32 (MSX)	31.3	32.4	14.4	17.5	4.5	5.7
Blaney B401 (2X)	31.0	31.9	15.3	19.6	4.7	6.2
Garno S-77 (2X)	30.5	–	14.5	–	4.5	–
Stewart 310 (Sp.)	30.3	–	15.2	–	4.7	–
Blaney EX7305 (2X)	30.3	30.5	18.5	21.4	5.7	6.6
DeKalb XL16 (2X)	30.3	31.2	15.1	19.1	4.6	6.0
Funk G-4141 (2X)	30.3	31.4	19.5	21.2	5.9	6.7
Pride 4404 (2X)	30.3	29.9	18.2	19.6	5.5	5.8
Funk G-4252 (3X)	30.2	30.4	16.1	20.8	4.8	6.3
Blaney B303A (2X)	30.1	–	15.0	–	4.6	–
Michigan 407-2X (2X)	30.1	30.6	16.9	20.0	5.1	6.1
Pioneer 3965 (3X)	30.0	32.1	15.3	18.7	4.6	6.2
Super Crost 2350 (2X)	29.8	–	15.0	–	4.5	–
Cargill 848 (2X)	29.8	–	16.3	–	4.9	–
Trojan TXS94 (2X)	29.7	32.7	14.2	17.2	4.2	5.7
Garno S-92 (2X)	29.5	29.2	15.4	20.9	4.6	6.1
Garno S-82 (2X)	29.5	–	17.3	–	5.1	–
Security SS97 (2X)	29.4	32.5	13.8	17.0	4.1	5.6
Hulting X310 (2X)	29.4	–	14.8	–	4.4	–
Michigan 410-2X (2X)	29.3	30.0	17.4	20.6	5.1	6.2
Gutwein 10A (2X)	29.2	30.5	17.2	21.0	5.0	6.4
Security SS102 (2X)	29.2	–	17.4	–	5.1	–
Wolverine W155 (2X)	28.9	–	14.6	–	4.2	–
Stewart 290 (Sp.)	28.8	–	13.8	–	4.0	–
Acco UC2901 (2X)	28.8	27.7	19.1	23.0	5.5	6.3
Michigan 4122 (2X)	28.8	29.7	19.8	22.8	5.7	6.8
Funk G-4272 (3X)	28.6	–	16.2	–	4.6	–
Jacques JX122A (2X)	28.3	28.1	19.8	23.7	5.6	6.6
P-A-G SX177 (2X)	28.1	30.8	17.9	19.8	5.0	6.1
Michigan 572-3X (3X)	28.1	29.2	17.9	21.8	5.0	6.4
Funk G-4321A (2X)	28.1	–	20.3	–	5.7	–
Pioneer 3780 (2X)	28.1	29.2	17.8	21.6	5.0	6.3
Funk G-4343 (2X)	28.1	29.3	19.9	23.0	5.6	6.8
Super Crost 1610 (2X)	28.1	–	17.4	–	4.9	–
P-A-G 534 (3X)	28.1	–	20.6	–	5.8	–
Garno S-92X (2X)	28.1	–	16.0	–	4.5	–
Renk RW2-WX (2X)	28.0	–	19.5	–	5.5	–
Michigan 5443 (3X)	28.0	29.3	18.9	22.2	5.3	6.5
Pioneer 3709 (MSX)	28.0	–	18.9	–	5.3	–
Migro M-1130 (2X)	28.0	28.1	19.6	23.2	5.5	6.5
Trojan Txs102 (2X)	28.0	28.1	17.9	21.9	5.0	6.1
Security SS105 (2X)	28.0	28.6	20.0	24.0	5.6	6.9
P-A-G SX210 (2X)	27.9	27.8	19.2	22.0	5.4	6.1
Michigan 575-2X (2X)	27.9	28.4	18.6	22.8	5.2	6.5
Funk G-4444 (2X)	27.9	28.6	18.6	23.0	5.2	6.6
Cargill 434 (3X)	27.7	–	18.4	–	5.1	–
Wolverine W166 (2X)	27.7	29.2	17.0	20.6	4.7	6.0
Acco UC3301 (2X)	27.7	26.3	20.6	24.7	5.7	6.4
Pride 5525 (2X)	27.6	–	22.0	–	6.0	–
Michigan 5802 (2X)	27.6	27.8	18.8	24.1	5.2	6.7
Super Crost S27 (2X)	27.6	29.1	17.0	20.8	4.7	6.1
Migor M-3020 (4X)	27.3	–	18.8	–	5.1	–
Gutwien 40 (2X)	27.2	28.4	18.8	21.1	5.1	5.9
Blaney B606 (2X)	27.0	–	17.4	–	4.8	–
P-A-G- 220 (2X)	27.0	–	17.8	–	4.9	–
Cargill 449 (3X)	26.7	–	17.7	–	4.7	–
Golden Harvest H-2450 (2X)	26.7	–	17.2	–	4.6	–
Gutwein 22 (2X)	26.7	–	18.0	–	4.8	–
Renk R236 (2X)	26.5	–	16.2	–	4.3	–
Renk RK44 (2X)	26.1	–	17.2	–	4.5	–

(Continued)

TABLE 12. (Continued)

Hybrid (Brand—Variety)	% Dry Matter			Tons per Acre Green Weight			Tons per Acre Dry Weight		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Migro M-0301 (2X)	26.1	–		16.5	–		4.3	–	
Blaney EX7606 (2X)	25.7	–		17.9	–		4.6	–	
Super Crost 2890 (2X)	25.7	26.6		16.3	21.5		4.2	5.7	
Hulting X322 (2X)	25.6	–		17.2	–		4.4	–	
Golden Harvest H-2460 (2X)	25.1	–		16.8	–		4.2	–	
Super Crost 2470 (2X)	24.6	–		19.3	–		4.8	–	
Average	29.3	30.7		17.0	20.5		5.0	6.2	
Range	24.6 to 35.0	26.3 to 38.2		13.0 to 22.0	15.2 to 24.7		4.1 to 6.0	5.2 to 6.9	
Least significant difference	1.3	1.0		1.2	0.9		0.4	0.3	

	1976	1975
Planted	May 13	April 30
Harvested	September 7	September 2
Soil Type	Parkhill loam	Parkhill loam
Previous Crop	Corn	Corn
Population	20,100	21,100
Rows	30"	30"
Fertilizer	201-104-198	116-64-112
Soil Test: pH	6.4	7.3
P	90 (high)	84 (high)
K	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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Payco SX465 (2X)	2.10	20	–	64.5	76	–	10.2	7	–
Michigan 280 (4X)	21.2	20	20	74.5	81	94	10.7	7	6
Funk G-5191 (4X)	21.4	–	–	81.8	–	–	6.5	–	–
Michigan 2853 (3X)	21.5	21	21	78.7	86	98	3.1	2	2
Michigan EXP7502 (3X)	21.7	–	–	83.8	–	–	3.5	–	–
Pioneer 3965 (3X)	21.8	22	22	84.4	90	100	3.8	2	3
Blaney B303A (2X)	22.6	–	–	70.5	–	–	5.4	–	–
Sohigro 22 (2X)	23.0	–	–	80.5	–	–	4.0	–	–
Sohigro 12 (2X)	23.6	–	–	83.6	–	–	5.6	–	–
Michigan 333-3X (3X)	23.6	23	23	90.7	100	112	2.4	1	2
Pioneer 3958 (2X)	23.8	23	–	75.7	80	–	4.1	5	–
Michigan 3093 (3X)	24.1	23	–	92.8	104	–	3.8	2	–
Migro M-0101 (2X)	24.2	22	22	80.3	90	98	3.8	2	3
Super Crost 1692 (2X)	24.7	24	24	93.3	89	105	1.5	2	1
Golden Harvest H-2370 (2X)	24.8	–	–	81.5	–	–	1.6	–	–
Super Crost 1610 (2X)	24.8	–	–	87.6	–	–	3.3	–	–
Michigan 3102 (2X)	25.0	23	23	91.4	108	120	4.7	2	2
Michigan 396-3X (3X)	25.3	25	24	78.5	98	112	8.0	4	4
Golden Harvest H-2340 (2X)	25.3	–	–	79.7	–	–	1.6	–	–
Wolverine W155 (2X)	25.3	–	–	82.5	–	–	0.8	–	–
Cowbell PSX4100 (2X)	25.6	–	–	92.2	–	–	2.3	–	–
Funk G-4195 (3X)	25.8	23	23	86.2	106	116	1.7	1	2
Funk G-4141 (2X)	25.8	25	–	88.9	94	–	1.1	1	–
Michigan EXP7501 (3X)	25.9	–	–	90.9	–	–	5.9	–	–
Gutwein 08 (2X)	26.1	24	24	86.2	91	100	0.0	1	1
Stewart 310 (Sp.)	26.3	–	–	83.9	–	–	0.0	–	–
Garno S-92 (2X)	26.3	–	–	88.9	–	–	0.8	–	–
Blaney EX7305 (2X)	26.5	25	25	97.3	103	120	1.6	1	1
Funk G-4252 (3X)	26.6	25	25	79.0	97	112	4.8	2	3
Northrup King PX32 (2X)	26.7	26	25	95.3	103	118	2.4	2	2
Golden Harvest H-2355 (2X)	26.8	26	26	95.6	104	116	2.7	2	2
Payco SX680 (2X)	27.0	–	–	88.0	–	–	2.9	–	–
Michigan 407-2X (2X)	27.2	26	26	101.1	113	124	4.6	3	2
*Blaney B605WX (2X)	27.4	–	–	105.3	–	–	2.1	–	–
Michigan 410-2X (2X)	27.5	26	26	90.8	105	118	5.7	3	3
Funk G-4343 (2X)	27.6	26	26	91.2	108	121	3.7	2	2
Pride 4404 (2X)	27.8	26	26	87.1	97	113	0.0	0	1
Sohigro 44	27.9	–	–	79.6	–	–	1.9	–	–
U.S. Steel 0011	27.9	–	–	100.4	–	–	6.7	–	–
Michigan 572-3X (3X)	28.0	27	27	95.5	108	122	3.9	2	2
U.S. Steel 0050	28.1	–	–	80.1	–	–	5.5	–	–
Super Crost 1901 (2X)	28.1	27	27	99.0	105	109	0.8	0	1
Acco U334 (3X)	28.3	26	–	97.0	109	–	5.4	3	–
*Michigan 4122 (2X)	28.3	27	–	109.6	123	–	0.8	0	–
Muncy Chief SX442 (2X)	28.6	27	–	81.2	90	–	0.0	0	–
Security SS105 (2X)	28.7	27	–	81.4	106	–	0.0	1	–
Northrup King PX497 (3X)	28.7	–	–	85.3	–	–	6.1	–	–
Michigan 5443 (3X)	28.8	27	–	98.5	112	–	5.5	3	–
*O's Gold SX1107 (2X)	28.8	–	–	110.7	–	–	0.0	–	–
Golden Harvest H-2460 (2X)	28.9	–	–	84.5	–	–	2.3	–	–
Dairyland DX1008 (2X)	29.0	–	–	86.2	–	–	7.9	–	–
*Super Crost 2350 (2X)	29.1	–	–	104.7	–	–	0.8	–	–
Pioneer 3780 (2X)	29.2	27	27	97.7	115	125	2.3	1	1
Garno S-100 (2X)	29.2	–	–	97.2	–	–	1.6	–	–
*Gutwein 22 (2X)	29.2	–	–	111.9	–	–	1.6	–	–
Cowbell PSX7300 (2X)	29.3	–	–	87.9	–	–	0.9	–	–
Wolverine W166 (2X)	29.3	27	27	92.3	96	114	0.0	0	1
Muncy Chief H304 (4X)	29.4	27	27	80.8	84	90	1.9	2	2
Gutwein 10A (2X)	29.4	27	27	99.7	100	114	0.7	1	1
Payco SX775 (2X)	29.4	28	28	95.9	104	119	2.3	1	1
*Funk G-4444 (2X)	29.4	29	29	102.9	111	122	0.8	1	1
Super Crost S27 (2X)	29.5	27	28	100.8	106	124	4.2	2	2
*DeKalb XL42 (2X)	29.5	29	29	111.6	122	129	3.1	2	3
Cardinal SX112 (2X)	29.5	28	28	93.8	118	130	0.0	1	1
*Pioneer 3709 (MSX)	29.5	–	–	102.1	–	–	2.3	–	–
Wolverine W174 (2X)	29.6	29	30	94.6	112	123	0.0	0	1
*Wolverine W170 (2X)	29.7	28	28	108.0	113	126	0.0	1	1
Michigan 575-2X (2X)	29.7	28	29	97.4	113	129	1.1	1	1
Migro M-1130 (2X)	29.8	28	29	86.0	109	121	0.0	0	2
*O's Gold SX1100 (2X)	30.2	28	28	102.4	118	126	0.8	0	1
Super Crost S25 (2X)	30.4	28	27	88.1	105	107	6.9	3	3
Muncy Chief SX550 (2X)	30.4	29	31	84.6	95	105	6.9	4	3
*Michigan 5802 (2X)	30.4	29	–	102.2	122	–	0.0	1	–
DeKalb XL45A (2X)	30.4	29	29	90.1	104	120	2.8	2	2
*Funk G-4321A (2X)	30.6	–	–	103.5	–	–	0.0	–	–
Acco UC3301 (2X)	30.7	29	30	84.8	105	125	3.1	2	1
Blaney B606 (2X)	30.7	29	31	96.0	118	131	0.8	0	0
Super Crost 2470 (2X)	30.8	–	–	88.1	–	–	0.8	–	–
*Golden Harvest H-2450 (2X)	30.9	30	29	106.4	112	126	2.3	1	1
Muncy Chief H401 (4X)	31.1	–	–	77.2	–	–	6.8	–	–
Gutwein 23 (2X)	31.2	29	–	92.8	110	–	3.8	2	–
Security SS102 (2X)	31.6	–	–	99.8	–	–	4.3	–	–
Super Crost 2890 (2X)	31.6	30	30	91.5	112	129	0.0	0	0
Trojan TXS102	32.1	30	30	91.2	107	125	6.2	3	2
Garno S-96X (2X)	32.1	–	–	90.1	–	–	3.1	–	–
Migro M-0301 (2X)	34.2	–	–	82.3	–	–	0.0	–	–
Average	28.4	26	27	90.7	104	117	2.9	2	1.7
Range	21.0 to 34.2	20 to 30	20 to 31	64.5 to 111.9	76 to 123	90 to 131	0.0 to 10.7	0 to 6	0 to 7
Least significant difference	1.2	0.9	0.7	11.3	7	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 20	May 2	April 26
Harvested	October 14	October 17	October 21
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Wheat	Corn	Sugar Beets
Population	19,700	19,900	20,800
Rows	30"	30"	30"
Fertilizer	174-96-48	90-78-39	161-144-108
Soil Test: pH	7.1	7.2	7.5
P	178 (very high)	68 (high)	152 (very high)
K	245 (high)	268 (high)	612 (very high)

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

Table 14. NORTH CENTRAL MICHIGAN Zone 3
HURON COUNTY TRIAL
One, Two, Three Year Averages — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Michigan 280 (4X)	21.6	20	21	95.4	99	106	0.0	1	3
P-A-G 145 (2X)	21.9	—	—	77.1	—	—	2.6	—	—
Sohigro 12 (2X)	22.6	—	—	83.7	—	—	0.9	—	—
Funk G-4040 (2X)	22.9	22	—	88.5	95	—	0.0	1	—
Renk RK3 (2X)	23.4	—	—	95.1	—	—	0.0	—	—
Pride 2206 (2X)	23.8	—	—	96.5	—	—	0.9	—	—
Funk G-5191 (4X)	23.8	—	—	82.1	—	—	0.0	—	—
Pick 185 (Sp.)	24.1	—	—	101.4	—	—	0.8	—	—
Asgrow RX42 (2X)	25.1	—	—	90.0	—	—	0.8	—	—
Michigan 333-3X (3X)	25.1	22	23	103.3	109	116	0.0	0	0
Pick 6266 (Sp.)	25.6	—	—	83.9	—	—	0.0	—	—
Migro M-0101 (2X)	26.0	22	23	92.3	94	106	0.8	0	1
Michigan 3093 (3X)	26.0	23	—	105.3	117	—	1.1	1	—
Funk G-4195 (3X)	26.3	23	24	104.6	115	113	0.0	0	0
Americana 1492 (2X)	26.4	—	—	96.1	—	—	0.0	—	—
Cargill 825 (2X)	26.9	—	—	106.6	—	—	1.6	—	—
Trojan TXS94 (2X)	27.0	24	—	103.6	117	—	0.0	0	—
Pioneer 3965 (3X)	27.2	24	24	99.8	106	105	2.4	1	2
Michigan 396-3X (3X)	27.3	25	25	96.6	109	120	0.0	0	0
Stewart 290 (Sp.)	27.4	—	—	89.5	—	—	0.0	—	—
Pick 323 (Sp.)	27.7	—	—	91.6	—	—	0.0	—	—
Wilstar 3338 (2X)	27.7	24	—	91.4	98	—	0.0	1	—
Pioneer 3958 (2X)	27.9	—	—	89.3	—	—	0.0	—	—
Sohigro 22 (2X)	28.0	—	—	81.9	—	—	0.0	—	—
Blaney B401 (2X)	28.2	26	26	107.4	113	118	0.0	1	1
Michigan 3102 (2X)	28.2	24	25	108.3	120	125	0.0	0	0
Funk G-4141 (2X)	28.2	24	—	107.4	119	—	0.0	0	—
Oxy 476 (3X)	28.4	—	—	95.4	—	—	0.8	—	—
Funk G-4252 (3X)	28.5	26	26	101.1	111	118	0.0	0	1
Wolverine W155 (2X)	28.6	—	—	94.8	—	—	0.0	—	—
Super Crost 1692 (2X)	28.6	24	25	91.7	102	113	0.8	0	1
Garno S-77 (2X)	28.6	—	—	94.5	—	—	0.0	—	—
P-A-G SX177 (2X)	28.7	25	—	81.3	96	—	0.8	2	—
Pride 3315 (2X)	28.8	26	—	82.3	90	—	0.0	0	—
Trojan TXS99 (2X)	28.9	25	—	106.8	116	—	0.0	0	—
Michigan 407-2X (2X)	28.9	26	27	105.6	126	131	1.5	3	2
Security SS97 (2X)	29.1	26	—	101.1	119	—	0.0	0	—
Americana 1776 (2X)	29.2	—	—	101.3	—	—	1.6	—	—
Blaney B303A (2X)	29.4	—	—	98.3	—	—	1.6	—	—
Wolverine W128 (2X)	29.5	26	26	95.3	113	113	0.9	1	1
Gutwein 08 (2X)	29.8	26	26	85.4	99	105	0.0	1	1
Golden Harvest H-2385 (2X)	30.2	—	—	107.9	—	—	0.0	—	—
Golden Harvest H-2370 (2X)	30.3	—	—	89.0	—	—	0.0	—	—
*Renk RK44 (2X)	30.3	—	—	116.2	—	—	0.0	—	—
Michigan 410-2X (2X)	30.3	27	27	97.6	119	128	0.8	0	2
Wilstar 4440 (2X)	30.3	—	—	98.4	—	—	0.0	—	—
*Michigan 4122 (2X)	30.4	27	—	114.8	133	—	0.0	0	—
Hulting X310 (2X)	30.4	—	—	90.5	—	—	0.0	—	—
*Gutwein 10A (2X)	30.6	27	28	117.2	128	125	0.0	0	0
Blaney B605WX (2X)	30.6	—	—	110.0	—	—	0.0	—	—
Cargill 848 (2X)	30.7	—	—	92.4	—	—	0.0	—	—
Funk G-4343 (2X)	30.8	28	28	96.5	111	116	0.8	1	1
*Acco U334 (3X)	30.9	—	—	116.5	—	—	0.0	—	—
Michigan 572-3X (3X)	31.0	28	28	101.8	119	130	0.0	1	1
Oxy 35 (2X)	31.0	—	—	93.6	—	—	0.0	—	—
*Golden Harvest H-2460 (2X)	31.2	—	—	112.5	—	—	0.0	—	—
*Americana 2800 (2X)	31.2	—	—	120.2	—	—	0.0	—	—
Michigan 5443 (3X)	31.2	28	—	109.3	127	—	0.9	1	—
Blaney EX7305 (2X)	31.3	27	28	100.2	117	126	0.0	1	2
Americana 6100A (3X)	31.3	—	—	108.1	—	—	0.0	—	—
Super Crost S27 (2X)	31.3	29	30	111.2	124	132	2.5	2	2
Garno S-82 (2X)	31.4	—	—	95.6	—	—	0.0	—	—
Cargill 434 (3X)	31.4	—	—	91.4	—	—	0.0	—	—
*Security SS102 (2X)	31.5	—	—	120.6	—	—	0.0	—	—
Golden Harvest H-2355 (2X)	31.6	27	27	87.2	106	111	0.0	0	0
*Golden Harvest H-2450 (2X)	31.7	28	29	123.3	135	141	0.0	0	2
*Michigan 5802 (2X)	31.7	29	—	120.3	135	—	0.0	0	—
Garno S-92X (2X)	31.7	—	—	95.4	—	—	0.9	—	—
*Trojan TXS102 (2X)	31.9	28	—	122.4	129	—	0.8	1	—
Renk RK6 (2X)	32.0	—	—	91.8	—	—	0.0	—	—
Pioneer 3709 (MSX)	32.1	—	—	98.5	—	—	0.0	—	—
Pride 4404 (2X)	32.1	29	29	102.9	113	117	0.0	0	1
Gutwein 22 (2X)	32.1	—	—	99.0	—	—	0.0	—	—
*Pick XR44 (2X)	32.2	—	—	114.2	—	—	0.0	—	—
*Super Crost 1901 (2X)	32.3	28	29	115.6	131	130	0.8	0	1
*Pioneer 3780 (2X)	32.3	29	30	112.8	128	133	1.8	1	1
*Garno S-94X (2X)	32.4	—	—	120.5	—	—	0.0	—	—
Stewart 310 (Sp.)	32.4	—	—	98.2	—	—	0.0	—	—
Hulting X322 (2X)	32.5	—	—	95.2	—	—	0.0	—	—
Cardinal SX112 (2X)	32.7	30	—	97.3	125	—	0.0	0	—
Funk G-4444 (2X)	32.7	29	31	108.6	124	128	0.0	0	1
P-A-G 534 (3X)	32.9	—	—	95.8	—	—	1.7	—	—
Security SS105 (2X)	33.2	30	—	105.9	115	—	0.0	1	—
Wolverine W166 (2X)	33.2	28	29	105.0	124	127	0.0	0	0
Michigan 575-2X (2X)	33.2	29	30	103.9	121	130	0.0	0	0
*Super Crost 2350 (2X)	33.3	—	—	120.1	—	—	0.0	—	—
Super Crost 2470 (2X)	33.5	—	—	102.6	—	—	0.0	—	—
*Acco UC3201 (2X)	33.8	31	31	112.9	128	133	0.0	0	1
Americana 2400 (2X)	34.1	—	—	92.1	—	—	0.0	—	—
*Gutwein 46 (2X)	34.1	—	—	112.6	—	—	0.0	—	—
Funk G-4321A (2X)	34.2	—	—	102.3	—	—	0.0	—	—
Acco UC3301 (2X)	34.4	31	31	102.2	116	129	0.0	0	0
Migro M-1130 (2X)	34.5	30	31	98.0	124	126	0.0	0	1
Wolverine W174 (2X)	34.5	31	31	106.2	129	131	0.0	0	0
Gutwein 40 (2X)	34.8	29	—	94.8	123	—	0.0	1	—
Super Crost 2890 (2X)	34.8	—	—	108.7	—	—	0.0	—	—
Migro M-3020 (4X)	34.9	—	—	105.9	—	—	0.0	—	—
*Migro M-0301 (2X)	35.0	—	—	123.7	—	—	0.0	—	—
Pioneer 3535 (2X)	35.0	31	—	101.3	117	—	0.0	0	—
Golden Harvest H-2500 (2X)	35.0	33	35	108.4	120	126	0.0	0	0
Average	30.0	27	28	101.2	117	123	0.3	0.4	0.7
Range	21.6 to 35.0	20 to 33	21 to 35	77.1 to 123.7	90 to 135	105 to 141	0.0 to 2.6	0 to 3	0 to 3
Least significant difference	1.1	0.8	0.7	11.0	7	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 13	April 30	April 25
Harvested	October 19	October 14	October 17
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Corn	Corn	Corn
Population	19,600	19,900	19,700
Rows	30"	30"	30"
Fertilizer	188-82-12	157-82-132	157-82-182
Soil Test: pH	7.4	7.0	7.3
P	68 (high)	45 (medium)	37 (low)
K	263 (high)	194 (medium)	215 (high)

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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Dry Matter			Tons per Acre: Green Weight			Tons per Acre: Dry Weight		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
P-A-G 145 (2X)	50.2	—	—	11.3	—	—	5.6	—	—
Renk RK3 (2X)	49.9	—	—	11.0	—	—	5.5	—	—
Pioneer 3958 (2X)	48.5	—	—	11.3	—	—	5.4	—	—
Michigan 280 (4X)	48.0	50.1	55.1	11.7	11.6	12.2	5.6	5.8	6.0
Sohigro 12 (2X)	44.1	—	—	11.2	—	—	4.9	—	—
Stewart 290 (Sp.)	43.5	—	—	14.4	—	—	6.2	—	—
Funk G-4040 (2X)	42.7	46.3	—	12.2	12.1	—	5.2	5.6	—
Pick 185 (Sp.)	42.7	—	—	14.3	—	—	6.1	—	—
Trojan TXS94 (2X)	42.3	44.4	—	14.1	13.3	—	6.0	5.9	—
Michigan 3093 (3X)	42.3	44.9	—	13.9	13.2	—	5.9	5.9	—

(Continued)

TABLE 15. (Continued)

Hybrid (Brand—Variety)	% Dry Matter			Tons per Acre: Green Weight			Tons per Acre: Dry Weight		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Cargill 825 (2X)	42.1	—	—	12.0	—	—	5.0	—	—
Oxy 476 (3X)	41.3	—	—	15.0	—	—	6.2	—	—
Michigan 333-3X (3X)	41.3	44.9	51.4	14.0	13.1	13.4	5.8	5.8	6.1
Funk G-5191 (4X)	41.2	—	—	11.2	—	—	4.6	—	—
Blaney B303A (2X)	40.9	—	—	12.2	—	—	5.1	—	—
Americana 1492 (2X)	40.7	—	—	13.9	—	—	5.6	—	—
Funk G-4141 (2X)	40.5	40.2	—	13.3	14.5	—	5.4	5.8	—
Pride 2206 (2X)	40.5	—	—	15.3	—	—	6.2	—	—
Pick 6266 (Sp.)	40.5	—	—	15.1	—	—	6.1	—	—
Pride 3315 (2X)	40.1	39.4	—	13.1	13.4	—	5.2	5.2	—
Asgrow RX42 (2X)	39.8	—	—	15.8	—	—	6.3	—	—
Renk RK6 (2X)	39.7	—	—	14.8	—	—	6.0	—	—
Michigan 396-3X (3X)	39.7	40.7	48.2	15.6	15.1	15.5	6.2	6.1	6.4
Golden Harvest H-2355 (2X)	39.4	39.3	46.8	13.9	13.8	14.5	5.5	5.4	5.8
Stewart 310 (Sp.)	39.0	—	—	12.8	—	—	5.0	—	—
Sohigro 22 (2X)	38.8	—	—	15.8	—	—	6.1	—	—
Garno S-77 (2X)	38.7	—	—	15.1	—	—	5.8	—	—
Wilstar 3338 (2X)	38.6	40.9	—	13.3	13.4	—	5.1	5.4	—
Gutwein 08 (2X)	38.6	39.8	47.8	16.3	14.7	14.3	6.3	5.8	5.9
Michigan 3102 (2X)	38.6	41.6	49.1	16.1	14.6	15.0	6.2	6.0	6.3
Gutwein 22 (2X)	38.5	—	—	16.0	—	—	6.2	—	—
Oxy 35 (2X)	38.4	—	—	13.0	—	—	5.0	—	—
Blaney EX7305 (2X)	38.3	38.6	47.1	15.9	15.0	15.3	6.1	5.8	6.2
Funk G-4252 (3X)	38.3	39.1	46.8	15.9	15.8	16.2	6.1	6.1	6.2
Trojan TXS99 (2X)	38.3	38.2	—	14.4	14.4	—	5.5	5.5	—
Cargill 848 (2X)	37.8	—	—	16.6	—	—	6.3	—	—
Renk RK44 (2X)	37.6	—	—	15.9	—	—	6.0	—	—
Blaney B401 (2X)	37.6	38.6	46.7	16.6	16.3	16.3	6.2	6.3	6.4
Migro M-0101 (2X)	37.4	41.0	48.5	15.5	14.3	13.5	5.8	5.8	5.9
Funk G-4195 (3X)	37.3	39.4	47.8	13.5	14.0	13.8	5.1	5.5	5.8
Pioneer 3965 (3X)	37.1	40.9	49.5	12.7	13.0	12.5	4.7	5.3	5.6
Golden Harvest H-2370 (2X)	37.0	—	—	14.8	—	—	5.5	—	—
Michigan 407-2X (2X)	37.0	37.8	45.6	17.6	17.2	17.3	6.5	6.5	6.8
P-A-G SX177 (2X)	37.0	35.4	—	18.9	17.6	—	7.0	6.2	—
Super Crost 1692 (2X)	37.0	37.7	46.7	14.1	13.0	13.6	5.2	4.9	5.6
Migro M-1130 (2X)	36.9	32.7	41.5	18.4	18.2	18.3	6.8	5.9	6.5
Hulting X310 (2X)	36.9	—	—	14.3	—	—	5.3	—	—
Funk G-4343 (2X)	36.9	37.3	45.1	15.4	16.6	16.6	5.7	6.2	6.6
Americana 2400 (2X)	36.9	—	—	18.9	—	—	7.0	—	—
Michigan 410-2X (2X)	36.9	37.3	45.1	18.2	18.0	18.3	6.7	6.7	7.0
Wolverine W155 (2X)	36.8	—	—	16.3	—	—	6.0	—	—
Wolverine W128 (2X)	36.8	41.2	49.1	14.1	13.6	13.5	5.2	5.5	5.7
Gutwein 10A (2X)	36.8	37.2	43.8	17.7	17.3	16.9	6.5	6.4	6.4
Americana 2800 (2X)	36.8	—	—	18.5	—	—	6.8	—	—
Super Crost S27 (2X)	36.8	36.5	44.2	15.2	16.3	16.5	5.7	6.0	6.3
Hulting X322 (2X)	36.7	—	—	17.7	—	—	6.5	—	—
Garno S-82 (2X)	36.3	—	—	12.5	—	—	4.5	—	—
P-A-G 534 (3X)	36.2	—	—	17.1	—	—	6.3	—	—
Security SS97 (2X)	36.1	39.2	—	13.2	13.1	—	4.8	5.1	—
Americana 6100A (3X)	36.1	—	—	16.2	—	—	5.9	—	—
Americana 1776 (2X)	36.0	—	—	15.7	—	—	5.7	—	—
Golden Harvest H-2385 (3X)	36.0	—	—	18.8	—	—	6.8	—	—
Garno S-94 (2X)	35.9	—	—	16.4	—	—	5.8	—	—
Wolverine W166 (2X)	35.9	37.0	—	16.7	16.2	—	6.0	6.0	—
Michigan 4122 (2X)	35.8	36.3	44.8	19.3	18.8	15.8	6.9	6.8	6.1
Gutwein 40 (2X)	35.8	35.8	—	19.6	19.3	—	7.0	6.9	—
Acco UC3201 (2X)	35.8	36.2	44.0	19.0	18.5	17.7	6.8	6.7	6.7
Trojan TXS102 (2X)	35.8	36.0	—	17.6	17.8	—	6.3	6.4	—
Pioneer 3780 (2X)	35.7	36.0	43.2	18.2	18.3	18.1	6.5	6.6	6.8
Wilstar 4440 (2X)	35.7	—	—	15.5	—	—	5.6	—	—
Funk G-4444 (2X)	35.2	35.5	43.0	18.3	17.8	17.7	6.4	6.3	6.4
Super Crost 1901 (2X)	35.2	34.8	42.9	17.0	16.8	17.8	6.0	5.9	6.5
Michigan 572-3X (3X)	35.2	35.9	44.1	16.5	16.2	16.7	5.8	5.8	6.3
Blaney B605WX (2X)	35.2	—	—	18.2	—	—	6.4	—	—
Michigan 5443 (3X)	35.1	35.7	—	18.5	18.2	—	6.5	6.5	—
Security SS105 (2X)	35.1	36.2	—	17.1	16.7	—	6.0	6.0	—
Security SS102 (2X)	35.0	—	—	14.8	—	—	5.2	—	—
Funk G-4321A (2X)	34.4	—	—	19.5	—	—	6.7	—	—
Pride 4404 (2X)	34.4	35.7	43.0	19.2	18.6	17.5	6.6	6.6	6.5
Pick 323 (Sp.)	34.4	—	—	13.7	—	—	4.7	—	—
Michigan 575-2X (2X)	34.3	34.9	42.8	17.8	18.0	18.0	6.1	6.3	6.5
Pioneer 3709 (MSX)	34.2	—	—	19.9	—	—	6.8	—	—
Michigan 5802 (2X)	34.2	34.3	—	19.3	19.8	—	6.6	6.8	—
Acco U334 (3X)	34.1	—	—	13.9	—	—	4.7	—	—
Acco UC3301 (2X)	34.1	34.0	41.6	19.1	20.0	19.2	6.5	6.8	6.9
Pick XR44 (2X)	33.4	—	—	16.8	—	—	5.6	—	—
Migro M-3020 (4X)	32.7	—	—	19.3	—	—	6.3	—	—
Cargill 434 (3X)	32.4	—	—	18.3	—	—	5.9	—	—
Garno S-92X (2X)	32.3	—	—	13.4	—	—	4.3	—	—
Super Crost 2350 (2X)	32.0	—	—	15.9	—	—	5.1	—	—
Golden Harvest H-2450 (2X)	31.6	31.0	40.8	15.8	16.4	16.6	5.0	5.0	5.8
Golden Harvest H-2460 (2X)	31.1	—	—	18.8	—	—	5.9	—	—
Pioneer 3535 (2X)	30.7	31.4	—	19.2	19.1	—	5.9	6.0	—
Super Crost 2890 (2X)	30.6	—	—	19.8	—	—	6.0	—	—
Super Crost 2470 (2X)	30.4	—	—	20.8	—	—	6.4	—	—
Cardinal SX112 (2X)	30.1	31.2	—	18.1	18.4	—	5.5	5.8	—
Migro M-0301 (2X)	29.7	—	—	17.0	—	—	5.0	—	—
Golden Harvest H-2500 (2X)	28.8	28.8	34.7	18.1	19.6	20.1	5.3	5.7	6.2
Gutwein 46 (2X)	28.6	—	—	16.1	—	—	4.6	—	—
Wolverine W174 (2X)	28.3	31.3	38.4	15.2	17.6	17.4	4.4	5.6	5.8
Average	37.0	37.8	45.3	15.9	16.0	16.1	5.8	5.9	6.2
Range	28.3 to 50.2	28.8 to 50.1	34.7 to 55.1	11.0 to 20.8	11.6 to 19.8	12.2 to 20.1	4.2 to 7.0	4.9 to 6.9	5.6 to 7.0
Least significant difference	1.5	1.1	0.8	1.4	0.9	0.6	0.5	0.4	0.3

	1976	1975	1974
Planted	May 13	April 30	April 25
Harvested	September 7	September 2	September 17
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Corn	Corn	Corn
Population	19,400	20,000	19,700
Rows	30"	30"	30"
Fertilizer	38-82-12	157-82-132	157-82-192
Soil Test: pH	7.4	7.0	7.3
P	68 (high)	45 (medium)	37 (low)
K	263 (high)	194 (medium)	215 (high)

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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre: 1976		2 Years		3 Years		% Stalk lodging: 1976		2 Years		3 Years	
	1976	2 yrs.	3 yrs.	Irrig.	Not Irrig.	Irrig.	Not Irrig.	Irrig.	Not Irrig.	Irrig.	Not Irrig.	Irrig.	Not Irrig.	Irrig.	Not Irrig.
Northrup King PX20 (2X)	17.4	20	23	128.0	58.8	132	85	124	90	1.5	4.5	5	4	3	3
Pick 185 (Sp.)	18.0	—	—	131.2	48.9	—	—	—	—	12.3	30.6	—	—	—	—
Pride 2206 (2X)	18.2	—	—	133.7	64.7	—	—	—	—	3.6	10.2	—	—	—	—
Pick 6266 (Sp.)	18.5	—	—	117.8	55.4	—	—	—	—	2.3	6.3	—	—	—	—
Michigan 280 (4X)	18.6	20	23	133.0	57.8	128	75	124	86	5.7	19.8	8	15	6	11

(Continued)

TABLE 16. (Continued)

Hybrid (Brand—Variety)	% Moisture			Bushels per acre						% Stalk lodging					
				1976		2 Years		3 Years		1976		2 Years		3 Years	
	1976	2 yrs.	3 yrs.	Irrig.	Not Irrig.	Irrig.	Not Irrig.	Irrig.	Not Irrig.	Irrig.	Not Irrig.	Irrig.	Not Irrig.	Irrig.	Not Irrig.
Funk G-5191 (4X)	18.8	–	–	137.8	69.4	–	–	–	–	9.2	6.2	–	–	–	–
Michigan EXP7502 (3X)	18.8	–	–	140.5	68.0	–	–	–	–	6.0	14.5	–	–	–	–
Sohigro 12 (2X)	18.9	–	–	120.2	53.1	–	–	–	–	8.6	15.7	–	–	–	–
Migro M-0101 (2X)	19.1	21	24	139.2	66.3	140	88	130	91	2.9	11.7	4	8	3	6
Michigan 2853 (3X)	19.2	21	23	138.3	66.2	134	83	130	92	3.6	9.6	5	8	4	6
Pick P23 (Sp.)	19.2	–	–	137.4	64.0	–	–	–	–	5.7	10.5	–	–	–	–
DeKalb XL12 (2X)	19.6	21	26	147.4	62.4	136	83	129	90	4.4	16.1	11	17	7	12
Michigan 333-3X (3X)	19.7	21	24	144.0	78.9	144	97	137	103	2.2	3.3	2	6	2	4
Wolverine W128 (2X)	19.7	21	23	129.6	56.0	126	78	119	85	1.4	7.4	3	4	4	4
Super Crost 1610 (2X)	20.4	22	24	124.5	54.6	130	81	123	89	10.4	9.2	7	5	4	4
Pride 3315 (2X)	20.4	–	–	138.4	59.6	–	–	–	–	0.7	1.6	–	–	–	–
Michigan 3093 (3X)	20.5	22	–	150.9	76.4	155	101	–	–	3.7	10.5	3	6	–	–
Funk G-4195 (3X)	20.8	21	26	148.6	63.6	141	86	131	93	6.0	26.0	7	15	4	10
Funk G-4141 (2X)	21.3	22	–	152.2	75.2	154	95	–	–	4.4	13.0	3	7	–	–
Michigan 396-3X (3X)	21.4	23	27	155.9	68.3	158	98	148	104	6.5	12.3	3	7	2	4
Michigan 3102 (2X)	21.5	23	26	159.6	76.0	158	104	147	108	2.2	9.0	3	6	2	4
Blaney B443 (3X)	21.5	24	–	157.7	76.9	156	99	–	–	7.3	19.0	6	10	–	–
Funk G-4252 (3X)	21.6	23	27	149.5	73.7	147	93	138	96	8.7	9.1	7	6	5	4
Blaney B302 (2X)	21.7	22	25	154.3	72.3	148	94	139	99	5.2	20.1	3	12	2	9
Asgrow RX2345 (2X)	21.7	–	–	149.7	73.0	–	–	–	–	3.6	7.2	–	–	–	–
Michigan EXP7501 (3X)	21.8	–	–	155.3	74.6	–	–	–	–	3.7	14.8	–	–	–	–
Wolverine W155 (2X)	21.8	–	–	153.1	76.5	–	–	–	–	8.2	18.6	–	–	–	–
Cowbell PSX7300 (2X)[1,2]	22.1	24	28	170.8	84.2	158	103	139	99	0.8	25.4	4	16	3	11
Pioneer 3958 (2X)	22.1	23	26	149.9	73.4	155	100	140	100	3.0	9.4	2	6	1	4
Super Crost 1692 (2X)	22.1	22	25	147.7	66.6	139	85	133	94	2.9	9.0	3	7	2	5
Sohigro 22 (2X)	22.1	–	–	130.9	62.7	–	–	–	–	5.3	9.7	–	–	–	–
Blaney B401 (2X)	22.4	23	–	140.6	73.8	149	102	–	–	2.2	14.4	4	8	–	–
Golden Harvest H-2370 (2X)	22.5	–	–	154.0	70.7	–	–	–	–	4.5	13.6	–	–	–	–
Asgrow RX53 (2X)	22.5	25	27	151.8	72.4	161	105	148	108	3.0	10.6	2	6	1	4
Super Crost 2350 (2X)	22.5	–	–	162.0	75.1	–	–	–	–	1.5	9.7	–	–	–	–
Cowbell MSX102 (2X)	22.5	24	–	141.5	65.5	135	86	–	–	5.7	16.4	5	13	–	–
Acco U334 (3X)	22.6	25	–	147.3	68.5	157	96	–	–	6.0	16.9	9	11	–	–
Acco UC2301 (2X)	22.7	24	27	161.4	76.9	160	105	146	105	1.5	18.8	4	18	3	12
Funk G-4343 (2X)	22.7	24	28	153.3	65.9	159	101	140	95	7.0	15.4	7	11	5	8
Migro M-1020 (2X)	22.8	23	26	161.8	69.9	151	92	139	96	3.9	12.3	3	8	2	6
Blaney B303A (2X)	22.8	–	–	160.7	71.1	–	–	–	–	10.9	18.0	–	–	–	–
Blaney B605WX (2X)	23.1	–	–	149.6	67.4	–	–	–	–	0.9	14.9	–	–	–	–
Northrup King PX32 (2X)[1,2]	23.1	25	28	172.1	79.8	170	108	153	107	0.7	13.7	3	10	2	7
Michigan 4122 (2X)[1,2]	23.2	25	–	180.0	88.9	180	115	–	–	3.7	10.2	2	5	–	–
Michigan 407-2X (2X)[1,2]	23.2	25	28	176.8	80.6	173	109	160	113	0.7	12.1	2	6	1	5
Pride 4404 (2X)	23.2	25	–	169.2	75.6	169	103	–	–	3.3	7.6	2	5	–	–
Pioneer 3780 (2X)[1,2]	23.2	26	30	178.9	81.8	173	107	154	108	3.8	16.1	4	10	3	7
Sohigro 44	23.4	–	–	155.6	64.6	–	–	–	–	2.9	11.5	–	–	–	–
Super Crost 1901 (2X)	23.6	26	30	154.9	61.6	155	90	148	100	3.0	24.0	2	13	2	9
Wolverine W166 (2X)	23.6	25	–	166.2	68.2	173	103	–	–	3.9	6.1	5	7	–	–
Security SS102 (2X)[1,2]	23.8	–	–	176.0	84.1	–	–	–	–	6.2	18.7	–	–	–	–
Blaney EX7305 (2X)[2]	23.8	25	28	169.3	78.9	163	106	144	105	3.8	11.5	3	8	2	6
Michigan 572-3X (3X)	23.9	25	30	164.5	68.0	160	98	148	104	3.2	3.8	5	5	3	3
Michigan 410-2X (2X)	24.0	25	29	170.4	78.2	164	106	154	108	6.9	9.8	6	7	4	5
Cowbell PSX4100 (2X)	24.0	26	30	158.5	75.8	149	94	137	96	6.9	13.5	7	9	5	6
Pioneer 3709 (MSX)[1,2]	24.2	–	–	178.6	92.6	–	–	–	–	3.7	8.1	–	–	–	–
Golden Harvest H-2450 (2X)[1,2]	24.5	–	–	170.9	81.1	–	–	–	–	0.0	21.3	–	–	–	–
Pride R290 (2X)	24.7	26	29	163.7	68.2	161	101	152	106	10.8	15.6	9	11	6	8
Funk G-4444 (2X)[1,2]	24.8	27	30	183.2	79.8	175	107	160	112	0.7	20.8	2	12	2	8
Super Crost S27 (2X)[1,2]	24.9	27	30	179.6	86.4	170	113	148	104	1.5	19.4	2	13	1	9
Michigan 5443 (3X)	24.9	26	–	168.4	78.0	168	105	–	–	3.0	13.2	3	9	–	–
U.S. Steel 0050	25.3	–	–	161.6	70.5	–	–	–	–	2.9	22.0	–	–	–	–
Asgrow RX58 (2X)[1]	25.4	–	–	171.0	75.6	–	–	–	–	3.7	16.2	–	–	–	–
Pick XR44 (2X)[1,2]	25.6	–	–	179.5	89.4	–	–	–	–	2.2	13.3	–	–	–	–
Blaney B606 (2X)[1,2]	25.8	26	31	171.5	90.3	174	117	153	112	0.7	3.3	2	3	1	2
Golden Harvest H-2460 (2X)	25.8	–	–	164.2	73.0	–	–	–	–	1.6	6.9	–	–	–	–
Michigan 5802 (2X)[1,2]	25.8	28	–	178.2	88.2	183	120	–	–	3.5	14.5	2	8	–	–
Funk G-4366 (2X)	26.2	28	31	167.6	73.8	169	103	148	101	0.8	18.1	1	12	1	8
Migro M-1130 (2X)	26.3	28	32	163.2	65.6	167	102	153	104	2.2	5.1	4	5	2	3
Funk G-4321A (2X)[1,2]	26.9	–	–	173.4	80.3	–	–	–	–	0.7	18.7	–	–	–	–
U.S. Steel 0011[1]	27.1	–	–	174.0	73.0	–	–	–	–	8.4	28.0	–	–	–	–
Acco UC3301 (2X)[1,2]	27.6	30	33	173.4	79.9	190	118	167	114	1.5	18.1	1	10	1	7
Pioneer 3535 (2X)	27.6	30	–	167.5	74.5	184	116	–	–	1.5	2.3	2	2	–	–
Michigan 575-2X (2X)	27.7	28	32	169.7	76.2	169	106	156	109	3.7	6.9	4	6	3	4
Migro M-0301 (2X)[1,2]	28.7	–	–	173.5	87.0	–	–	–	–	3.7	6.9	–	–	–	–
Average	22.7	24	28	156.4	71.8	158	99	143	101	4.1	13.3	4	9	3	6

(Continued)

TABLE 16. (Continued)

Hybrid (Brand—Variety)	% Moisture 1976	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1976 Irrig.	Bushels per acre 1976 Not Irrig.	Bushels per acre 2 Years Irrig.	Bushels per acre 2 Years Not Irrig.	Bushels per acre 3 Years Irrig.	Bushels per acre 3 Years Not Irrig.	% Stalk lodging 1976 Irrig.	% Stalk lodging 1976 Not Irrig.	% Stalk lodging 2 Years Irrig.	% Stalk lodging 2 Years Not Irrig.	% Stalk lodging 3 Years Irrig.	% Stalk lodging 3 Years Not Irrig.
Range	17.4 to 28.7	20 to 30	23 to 33	120.2 to 183.2	48.9 to 92.6	126 to 190	75 to 120	119 to 167	85 to 114	0.0 to 12.3	1.6 to 30.6	1 to 11	2 to 18	1 to 7	2 to 12
Least significant difference	1.1	0.8	0.7	14.4	6.8	8	7	5	5						

[1]Significantly better than average yield, irrigated, 1976.
[2]Significantly better than average yield, not irrigated, 1976.

	1976	1975	1974
Planted	May 5	May 7	May 4
Harvested	October 29	October 15	October 26
Soil Type	Montcalm sandy loam	Montcalm sandy loam	Montcalm sandy loam
Previous Crop	Clover	Clover	Sorghum—sudan seeded to rye in fall
Population	19,300	20,700	20,500
Rows	30"	30"	30"
Fertilizer	336-156-156	255-110-110	150-120-170
Irrigation	12 inches	9 inches	8 inches
Soil Test: pH	6.7	6.5	6.1
P	403 (very high)	268 (very high)	340 (very high)
K	163 (medium)	257 (high)	198 (medium)

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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture 1976	% Moisture 2 yrs.	% Moisture 3 yrs.	Bushels per acre 1976	Bushels per acre 2 yrs.	Bushels per acre 3 yrs.	% Stalk lodging 1976	% Stalk lodging 2 yrs.	% Stalk lodging 3 yrs.
Jacques JX823 (3X)	18.9	—	—	76.2	—	—	2.6	—	—
Sohigro 12 (2X)	19.0	—	—	80.2	—	—	0.0	—	—
Trojan TX85 (3X)	19.0	—	—	82.7	—	—	0.0	—	—
Michigan 275-2X (2X)	19.4	20	22	86.5	107	106	1.6	2	1
Jacques JX863 (3X)	19.4	—	—	79.4	—	—	0.0	—	—
Jacques 951 (4X)	19.5	—	—	80.5	—	—	0.0	—	—
Michigan 280 (4X)	20.0	20	22	80.2	100	102	0.7	4	4
Sohigro 22 (2X)	20.2	—	—	86.9	—	—	0.0	—	—
Funk G-4040 (2X)	20.7	21	—	71.0	101	—	0.0	0	—
Pride R144 (3X)	20.8	—	—	72.8	—	—	0.0	—	—
Sohigro 44	20.8	—	—	71.6	—	—	2.2	—	—
Funk G-5191 (4X)	20.8	—	—	78.8	—	—	1.5	—	—
Funk G-4195 (3X)	20.8	21	23	91.1	113	113	0.7	0	1
Michigan 2853 (3X)	20.8	21	22	88.4	107	109	0.0	2	2
Migro M-0101 (2X)	21.0	21	24	92.5	102	105	0.8	1	1
Super Crost 1210 (2X)	21.1	—	—	72.7	—	—	0.0	—	—
Michigan EXP7502 (3X)	21.2	—	—	90.9	—	—	0.0	—	—
Jacques JX20 (2X)	21.4	—	—	81.4	—	—	0.0	—	—
Northrup King PX20 (2X)	21.4	21	23	80.7	107	106	0.0	0	1
Wolverine 24 (4X)	21.7	21	—	86.4	105	—	0.0	1	—
Michigan 3093 (3X)	21.7	22	—	91.5	116	—	0.0	1	—
Cowbell MSX102 (2X)	22.1	23	—	90.9	111	—	0.7	0	—
Michigan 3102 (2X)	22.2	22	24	92.4	117	118	0.0	0	0
Funk G-4141 (2X)	22.2	22	—	87.7	115	—	0.0	1	—
Pioneer 3955 (3X)	22.5	22	—	80.6	99	—	0.0	1	—
Super Crost 1610 (2X)	22.6	—	—	81.2	—	—	0.0	—	—
Funk G-5048 (4X)	22.6	21	22	80.5	105	102	0.0	2	2
Pride R173 (3X)	22.6	—	—	79.1	—	—	2.2	—	—
Funk G-4082 (3X)	22.7	21	23	70.8	86	88	0.0	1	4
Super Crost S14A (2X)	22.9	—	—	78.5	—	—	0.0	—	—
Pioneer 3958 (2X)	22.9	22	—	73.6	98	—	0.0	1	—
Michigan 333-3X (3X)	23.0	22	24	86.9	111	112	0.0	0	0
Pride 3315 (2X)	23.0	—	—	93.9	—	—	0.0	—	—
Super Crost 1103 (3X)	23.1	—	—	69.9	—	—	2.9	—	—
Pride 2206 (2X)	23.2	—	—	69.3	—	—	0.0	—	—
*Funk G-4252 (3X)	23.5	23	—	99.8	117	—	0.0	0	—
*Blaney B303A (2X)	23.7	—	—	95.7	—	—	0.0	—	—
Wolverine W120 (2X)	23.7	22	—	87.1	102	—	0.0	0	—
U.S. Steel 0011	23.8	—	—	89.2	—	—	0.0	—	—
U.S. Steel 0050	23.8	—	—	83.9	—	—	0.0	—	—
Michigan 396-3X (3X)	23.8	23	26	87.0	109	112	0.0	0	1
Trojan TXS94 (2X)	24.4	—	—	86.8	—	—	0.0	—	—
Jacques JX52 (2X)	24.6	—	—	78.3	—	—	0.0	—	—
Jacques JX40 (2X)	24.7	—	—	72.9	—	—	0.0	—	—
Acco UC2301 (2X)	24.7	24	—	93.1	118	—	2.1	1	—
*Cowbell PSX4100 (2X)	25.1	26	30	95.6	107	101	0.0	1	1
Michigan 410-2X (2X)	25.1	25	28	87.9	115	117	0.0	2	1
*Michigan EXP7501 (3X)	25.1	—	—	95.0	—	—	3.6	—	—
*Blaney B501A (2X)	25.2	26	29	96.2	119	116	0.7	1	1
*Security SS102 (2X)	25.3	—	—	96.3	—	—	0.0	—	—
Super Crost S16 (2X)	25.3	—	—	70.3	—	—	0.0	—	—
Trojan TX92 (3X)	25.5	—	—	78.8	—	—	0.0	—	—
Acco U334 (3X)	25.5	25	—	81.8	110	—	0.0	4	—
Blaney EX7305 (2X)	25.7	25	27	90.0	116	114	0.0	0	0
*Super Crost 2350 (2X)	25.7	—	—	100.3	—	—	0.0	—	—
*Michigan 407-2X (2X)	25.7	25	28	96.5	119	117	0.7	2	1
Blaney B-AA (2X)	26.0	27	30	82.5	111	111	0.0	0	0
*Cowbell PSX7300 (2X)	26.7	27	32	98.9	119	111	0.0	1	1
Michigan 5443 (3X)	26.7	26	—	91.0	116	—	1.5	1	—
Michigan 4122 (2X)	26.8	26	—	85.0	116	—	0.0	0	—
Pioneer 3709 (MSX)	27.2	—	—	93.4	—	—	2.4	—	—
Super Crost 1692 (2X)	27.6	—	—	76.2	—	—	0.0	—	—
Pioneer 3780 (2X)	28.4	28	31	85.8	113	110	0.0	1	1
Blaney B606 (2X)	31.0	—	—	87.4	—	—	0.0	—	—
Average	23.2	23	26	84.7	109	109	0.4	1.0	1
Range	18.9 to 31.0	20 to 28	22 to 32	69.3 to 100.3	86 to 119	88 to 118	0.0 to 3.6	0 to 4	0 to 4
Least significant difference	1.3	0.9	0.6	10.1	8	5			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 12	May 14	May 31
Harvested	October 26	October 28	October 31
Soil Type	Iosco sandy loam	Pewamo loam	Pewamo loam
Previous Crop	Corn	Corn	Alfalfa
Population	20,000	20,300	20,400
Rows	30"	30"	30"
Fertilizer	145-45-98	75-80-110	113-60-98
Soil Test: pH	6.5	6.5	6.4
P	125 (very high)	60 (medium high)	47 (medium)
K	235 (high)	154 (low)	145 (low)

Farm Cooperator: Robert and August Ohse, Custer (1976); Richard Kessler, Sr., Montague (1975, 1974).
County Extension Director: Dean Raven, Scottville (1976); Ed Strong, Hart (1975, 1974).

Table 18. **NORTHERN MICHIGAN** Zone 4
GRAND TRAVERSE COUNTY TRIAL
One, Two, Three Year Averages — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Funk G-4082 (3X)	18.8	20	23	85.9	88	83	6.7	8	6
Pride R107 (3X)	19.3	—	—	85.4	—	—	3.2	—	—
Stewart 2501 (2X)	19.3	19	21	66.7	84	83	7.2	4	3
Michigan 2013 (3X)	19.7	20	—	88.7	93	—	5.1	5	—
Jacques JX20 (2X)	20.0	—	—	88.5	—	—	3.0	—	—
Pride 117 (2X)	20.1	—	—	84.9	—	—	5.3	—	—
Jacques JX832 (3X)	20.8	—	—	64.8	—	—	0.0	—	—
Michigan 200 (4X)	20.9	21	23	85.7	90	87	3.5	4	3
Funk G-5048 (4X)	21.4	21	24	91.4	95	93	2.2	2	2
Stewart 255 (2X)	21.5	21	—	77.7	89	—	1.5	2	—
Super Crost 1210 (2X)	21.5	—	—	87.9	—	—	2.9	—	—
Michigan 275-2X (2X)	21.7	22	26	84.1	94	98	6.2	4	4
Michigan 280 (4X)	22.3	22	26	92.4	98	98	3.5	3	2
Jacques JX25 (2X)	22.4	—	—	83.9	—	—	7.2	—	—
Funk G-4040 (2X)	22.8	23	—	93.3	109	—	0.0	0	—
Funk G-5191 (4X)	23.4	—	—	92.3	—	—	0.7	—	—
Super Crost 1103 (3X)	24.1	23	—	89.7	90	—	2.9	2	—
Cardinal SX93 (2X)	24.1	—	—	89.0	—	—	0.0	—	—
Michigan EXP7502 (3X)	24.2	—	—	91.6	—	—	0.8	—	—
Michigan 2853 (3X)	24.2	23	26	94.9	102	101	3.6	3	3
Wolverine W120 (2X)	24.2	24	27	87.0	93	88	0.0	0	0
Jacques 844 (4X)	24.7	—	—	87.8	—	—	2.9	—	—
*Pioneer 3965 (3X)	24.9	25	27	96.4	103	103	0.0	1	0
Wolverine 24 (4X)	25.3	25	27	91.5	96	94	3.8	2	2
Trojan TXS82 (2X)	25.3	—	—	83.3	—	—	6.3	—	—
Super Crost 1610 (2X)	26.2	—	—	94.3	—	—	0.0	—	—
*Pride R144 (3X)	26.2	25	—	97.0	104	—	0.7	1	—
*Michigan 3093 (3X)	26.2	25	—	100.8	109	—	2.2	2	—
*Michigan 333-3X (3X)	26.4	26	29	97.0	106	101	0.8	2	2
*Jacques JX52 (2X)	26.9	—	—	101.6	—	—	0.0	—	—
Pride R173 (3X)	27.1	26	29	79.2	93	83	3.5	2	2
Super Crost S14A (2X)	27.6	26	—	82.0	86	—	0.0	0	—
Michigan 3102 (2X)	27.7	26	—	95.1	108	—	1.6	1	—
*Garno S-82 (2X)	28.1	—	—	103.6	—	—	0.0	—	—
*Funk G-4141 (2X)	28.4	27	—	96.0	105	—	1.4	1	—
Michigan 396-3X (3X)	28.4	28	32	91.6	104	97	1.4	1	1
Super Crost S16 (2X)	29.3	—	—	79.0	—	—	0.0	—	—
Super Crost S1692 (2X)	29.9	—	—	93.2	—	—	0.0	—	—
Garno S-77 (2X)	30.9	—	—	83.3	—	—	0.0	—	—
Average	24.3	23	26	88.7	97	93	2.3	2	2
Range	18.8 to 30.9	19 to 28	21 to 32	64.8 to 101.6	84 to 109	83 to 103	0.0 to 7.2	0 to 8	0 to 6
Least significant difference	1.0	0.7	0.6	7.3	6	6			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 18	May 16	May 21
Harvested	October 28	October 30	October 29
Soil Type	Coventry-Newaygo loam	Coventry-Newaygo loam	Coventry-Newaygo loam
Previous Crop	Corn	Corn	Corn
Population	19,400	19,600	19,300
Rows	38"	38"	38"
Fertilizer	120-80-40, manure	118-70-35	16-72-20, manure
Soil Test: pH	7.0	6.6	6.7
P	320 (very high)	185 (very high)	395 (very high)
K	297 (high)	279 (high)	348 (very 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 — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Dry Matter			Tons per Acre: Green Weight			Tons per Acre: Dry Weight		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Michigan 2013 (3X)	30.4	32.3	—	13.8	14.0	—	4.2	4.5	—
Golden Harvest H-2220 (4X)	28.3	—	—	16.9	—	—	4.8	—	—
Michigan 275-2X (2X	27.5	26.9	35.3	17.1	19.0	17.6	4.7	5.1	5.3
Super Crost 1610 (2X)	27.4	—	—	15.6	—	—	4.3	—	—
Jacques 805 (4X)	27.4	—	—	15.2	—	—	4.2	—	—
Michigan 280 (4X)	27.2	26.5	34.3	18.4	20.8	20.0	5.0	5.5	5.7
Michigan 200 (4X)	27.1	27.1	36.2	14.8	17.5	15.9	4.0	4.7	4.6
Pioneer 3965 (3X)	27.0	25.8	34.6	18.0	20.1	18.6	4.9	5.2	5.2
Super Crost 1210 (2X)	26.6	—	—	16.2	—	—	4.3	—	—
Super Crost S14A (2X)	26.4	25.3	—	14.8	18.4	—	3.9	4.6	—
Michigan 2853 (3X)	26.4	26.0	34.5	18.2	20.3	19.4	4.8	5.2	5.4
Pioneer 3958 (2X)	26.0	25.5	33.6	18.1	20.6	18.7	4.7	5.2	5.2
Super Crost 1103 (3X)	26.0	25.2	—	16.0	17.9	—	4.2	4.5	—
Northrup King PX442 (3X)	26.0	25.0	33.6	15.5	17.2	15.8	4.0	4.2	4.2
Michigan EXP7502 (3X)	25.9	—	—	17.3	—	—	4.5	—	—
Pioneer 3955 (3X)	25.2	—	—	17.0	—	—	4.3	—	—
Funk G-4082 (3X)	25.2	25.5	35.2	19.8	20.4	17.3	5.0	5.2	5.0
Funk G-4040 (2X)	25.0	24.8	—	17.5	21.2	—	4.4	5.2	—
Super Crost S16 (2X)	25.0	—	—	14.7	—	—	3.6	—	—
Funk G-5048 (4X)	24.7	25.2	33.5	19.6	21.0	18.8	4.8	5.3	5.1
Super Crost 1692 (2X)	24.2	—	—	18.6	—	—	4.5	—	—
Jacques JX20 (2X)	23.8	—	—	16.0	—	—	3.8	—	—
Michigan 3093 (3X)	23.8	22	—	18.5	23.6	—	4.4	5.1	—
Michigan 333-3X (3X)	23.7	23.0	29.4	20.7	22.7	20.8	4.9	5.2	5.2
Funk G-4141 (2X)	23.4	23.6	—	17.6	20.9	—	4.1	4.9	—
Michigan 396-3X (3X)	22.9	23.0	28.3	19.7	20.5	18.1	4.5	4.7	4.5
Stewart 38 (3X)	22.9	23.2	33.1	18.2	20.8	18.8	4.2	4.8	4.9
Stewart 3701 (3X)	22.7	23.6	—	16.5	20.6	—	3.7	4.9	—
Funk G-5191 (4X)	22.3	—	—	16.3	—	—	3.6	—	—
Michigan 3102 (2X)	22.3	22.9	—	18.3	22.1	—	4.1	5.1	—
Golden Harvest H-2370 (2X)	22.0	—	—	20.0	—	—	4.4	—	—
Average	25.3	25.3	33.3	17.3	19.7	18.2	4.3	4.9	5.0
Range	22.0 to 30.4	22.9 to 32.3	28.3 to 36.2	13.8 to 20.7	14.0 to 23.6	15.8 to 20.8	3.6 to 5.0	4.2 to 5.5	4.2 to 5.7
Least significant difference	1.2	0.8	0.6	1.2	0.9	0.7	0.4	0.4	0.3

	1976	1975	1974
Planted	May 14	May 14	May 10
Harvested	September 9	September 1	September 19
Soil Type	Kent silt loam	Kent silt loam	Kent silt loam
Previous Crop	Corn	Corn	Corn
Population	20,100	20,800	20,700
Rows	30"	30"	30"
Fertilizer	141-64-128	133-32-136	159-54-169

Farm Cooperator: Robert DeBoer, M.S.U. Lake City Experiment Station, Lake City
County Extension Director: Vern VandePol, Lake City
Cooperators: Dr. L. O. Copeland (1976), L. V. Nelson (1975, 1974), Crop and Soil Sciences, Michigan State University.

Table 20. **NORTHERN MICHIGAN** Zone 4
ALPENA AND PRESQUE ISLE COUNTIES — GRAIN
One, Two, Three Year Averages — 1976, 1975, 1974

Hybrid (Brand—Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Warwick TX17 (3X)	27.9	27	–	72.1	89	–	13.4	15	–
Funk G-4077 (3X)	28.2	–	–	78.4	–	–	7.6	–	–
Stewart 255 (2X)	29.5	29	–	100.4	109	–	0.0	3	–
Michigan 2013 (3X)	29.5	29	–	103.7	121	–	3.9	5	–
Pick 2522 (2X)	29.7	–	–	105.6	–	–	0.8	–	–
Pick XR14 2X	29.9	–	–	101.0	–	–	8.9	–	–
Warwick SL224 (Sp.)	30.2	–	–	102.5	–	–	3.1	–	–
Michigan 200 (4X)	30.3	30	35	97.5	108	102	1.6	6	4
Warwick SL207 (2X)	30.7	30	–	108.0	117	–	0.8	4	–
Pride R107 (3X)	30.8	–	–	93.5	–	–	3.3	–	–
Michigan 275-2X (2X)	30.9	32	38	98.9	117	109	3.1	7	5
Asgrow RX (3X)	31.0	–	–	108.7	–	–	2.3	–	–
Michigan 280 (4X)	31.0	32	36	111.3	118	110	0.8	1	1
Stewart 2501 (2X)	31.6	30	–	108.5	121	–	0.8	10	–
Super Crost 1210 (2X)	32.0	–	–	92.8	–	–	0.0	–	–
Michigan 2853 (3X)	32.0	32	36	108.3	122	114	2.2	3	2
Pride 1117 (2X)	32.0	–	–	111.6	–	–	4.2	–	–
Funk G-4082 (3X)	32.2	31	35	107.1	120	111	0.8	4	3
Funk G-4040 (2X)	32.5	34	–	111.8	130	–	0.0	1	–
*Michigan EXP7502 (3X)	32.6	–	–	118.6	–	–	0.0	–	–
Pick 145 (2X)	33.3	–	–	92.7	–	–	3.0	–	–
Funk G-5048 (4X)	34.4	34	38	112.7	128	119	0.0	5	3
Pioneer 3977 (3X)	35.1	33	37	94.1	103	101	0.0	2	2
*Asgrow RX29 (4X)	35.3	–	–	117.8	–	–	1.5	–	–
*Pick 165 (4X)	35.4	–	–	118.8	–	–	0.0	–	–
Pioneer 3873 (4X)	35.4	–	–	111.9	–	–	6.1	–	–
Super Crost 1103 (3X)	35.8	–	–	100.5	–	–	0.8	–	–
Payco 350	35.8	–	–	109.4	–	–	1.5	–	–
*Funk G-5191 (4X)	36.0	–	–	114.0	–	–	1.7	–	–
Michigan 3093 (3X)	36.0	36	–	112.5	127	–	3.8	3	–
Super Crost S14A (2X)	36.4	–	–	98.8	–	–	0.0	–	–
Pioneer 3965 (3X)	36.8	36	40	95.3	114	105	0.0	0	0
Payco SX465 (2X)	37.3	–	–	100.5	–	–	0.0	–	–
Trojan TXS82 (2X)	37.3	–	–	84.6	–	–	1.7	–	–
Pride R173 (3X)	37.8	–	–	97.1	–	–	0.8	–	–
*Michigan 333-3X (3X)	37.9	36	42	114.2	125	112	1.5	2	1
*Funk G-4141 (2X)	37.9	37	–	118.1	137	–	0.0	0	–
Asgrow RX 32 (MSX)	38.1	–	–	98.5	–	–	0.0	–	–
Golden Harvest H-2290 (3X)	38.7	39	–	104.5	103	–	0.0	3	–
Super Crost S16 (2X)	39.0	–	–	98.9	–	–	0.8	–	–
Pride R144 (3X)	39.0	35	40	112.4	123	111	0.0	0	0
Super Crost 1610 (2X)	39.1	–	–	104.1	–	–	0.0	–	–
Pioneer 3958 (2X)	39.3	–	–	112.1	–	–	0.0	–	–
*Golden Harvest H-2370 (2X)	39.3	–	–	120.1	–	–	1.7	–	–
Warwick TX20 (3X)	39.8	37	–	97.7	112	–	0.0	3	–
*Michigan 3102 (2X)	39.8	37	–	120.6	136	–	0.8	0	–
*Michigan 396-3X (3X)	40.6	40	45	119.2	130	112	0.0	1	1
Golden Harvest H-2355 (2X)	41.0	38	–	105.3	125	–	1.6	3	–
Average	34.7	33	38	104.7	119	109	1.8	4	2
Range	27.9 to 41.0	27 to 40	35 to 45	72.1 to 120.6	89 to 137	101 to 119	0.0 to 13.4	0 to 15	0 to 5
Least significant difference	1.4	1.0	0.9	9.2	7	6			

*Significantly better than average yield in 1976.

	1976	1975	1974
Planted	May 15	May 15	May 22
Harvested	October 7	October 16	October 17
Soil Type	Onaway sandy loam	Onaway loam	Onaway loam
Previous Crop	Wheat	Corn	Corn
Population	20,500	20,900	21,000
Rows	28"	28"	28"
Fertilizer	118-72-72, manure	20-80-80, manure	202-64-64, manure
Soil Test: pH	6.6		
P	53 (medium)		
K	176 (medium)		

Farm Cooperators: Robert Cornell, Posen (1976); Louis and Leroy Woloszyk, Posen (1975, 1974).
County Extension Directors: A. H. Nickels, Alpena (1976); Jay Poffenberger, Rogers City (1975, 1974).
Cooperators: Dr. L. O. Copeland (1976) and L. V. Nelson (1975, 1974), Crop and Soil Sciences, Michigan State University.

Table 21. **NORTHERN MICHIGAN** Zone 4
ALPENA AND PRESQUE ISLE COUNTIES — SILAGE
One, Two, Three Year Averages — 1976, 1974, 1973

Hybrid (Brand—Variety)	% Dry Matter			Tons per Acre: Green Weight			Tons per Acre: Dry Weight		
	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.	1976	2 yrs.	3 yrs.
Pride R107 (3X)	35.1	–	–	15.3	–	–	5.4	–	–
Michigan 2013 (3X)	34.6	34.3	–	15.8	17.4	–	5.5	6.0	–
Michigan 200 (4X)	34.2	31.4	35.4	16.7	19.0	21.2	5.7	5.9	5.9
Pick XR14 (2X)	33.0	–	–	17.9	–	–	6.0	–	–
Warwick TX17 (3X)	32.4	33.5	–	14.1	15.7	–	4.6	5.3	–
Pick 145 (2X)	32.1	–	–	17.8	–	–	5.7	–	–
Michigan 275-2X (2X)	32.0	28.6	32.4	20.0	23.3	23.8	6.4	6.5	6.4
Funk G-4077 (3X)	31.4	–	–	16.1	–	–	5.0	–	–
Stewart 2501 (2X)	31.2	28.4	–	22.2	24.0	–	6.9	6.7	–
Super Crost 1610 (2X)	31.0	–	–	18.0	–	–	5.6	–	–
Funk G-5048 (4X)	30.6	26.9	32.9	20.0	24.5	24.5	6.1	6.4	6.2
Pick 2522 (2X)	29.9	–	–	22.1	–	–	6.5	–	–
Michigan 280 (4X)	29.9	26.4	30.4	23.4	27.2	27.7	7.0	7.0	6.9
Pioneer 3958 (2X)	29.8	–	–	22.0	–	–	6.5	–	–
Trojan TXS82 (2X)	29.7	–	–	17.8	–	–	5.3	–	–
Super Crost 1210 (2X)	29.6	–	–	19.4	–	–	5.6	–	–
Michigan EXP7502 (3X)	28.8	–	–	21.5	–	–	6.2	–	–
Super Crost 14A (2X)	28.4	–	–	17.6	–	–	5.0	–	–
Funk G-4082 (3X)	28.4	26.9	32.7	25.0	25.9	25.2	7.1	6.9	6.7
Asgrow RX29 (4X)	28.4	–	–	21.1	–	–	6.0	–	–
Michigan 2853 (3X)	28.4	25.5	30.0	23.2	26.7	26.6	6.6	6.7	6.5
Pick 165 (4X)	28.2	–	–	25.3	–	–	7.2	–	–
Golden Harvest H-2355 (2X)	28.1	24.3	–	21.0	26.1	–	5.9	6.1	–
Payco 350 (2X)	28.0	–	–	21.7	–	–	6.1	–	–
Pride 1117 (2X)	28.0	–	–	24.1	–	–	6.7	–	–
Pioneer 3977 (3X)	28.0	27.2	32.9	21.7	22.7	23.6	6.0	6.1	6.2
Payco SX465 (2X)	27.9	–	–	23.9	–	–	6.7	–	–
Warwick SL207 (2X)	27.9	27.1	–	17.8	21.8	–	4.9	5.8	–
Stewart 255 (2X)	27.9	25.9	–	22.4	24.2	–	6.2	6.2	–
Asgrow RX32 (MSX)	27.7	–	–	20.7	–	–	5.8	–	–
Funk G-4141 (2X)	27.6	25.7	–	24.9	26.9	–	6.9	6.8	–
Michigan 3093 (3X)	27.5	24.5	–	24.8	28.5	–	6.9	6.9	–
Michigan 333-3X (3X)	27.5	24.4	26.8	24.4	27.9	28.1	6.7	6.7	6.5
Asgrow RX27 (3X)	27.4	–	–	24.5	–	–	6.7	–	–
Pioneer 3873 (4X)	27.4	–	–	21.5	–	–	5.9	–	–
Michigan 396-3X (3X)	27.1	24.1	26.1	26.0	28.7	28.9	7.0	6.8	6.3
Funk G-4040 (2X)	27.0	25.1	–	23.8	27.4	–	6.4	6.8	–
Pioneer 3965 (3X)	26.4	25.5	30.4	18.9	24.0	25.2	5.0	5.8	6.1
Pride R173 (3X)	26.4	–	–	24.0	–	–	6.4	–	–
Super Crost 1103 (3X)	26.2	–	–	17.9	–	–	4.7	–	–
Michigan 3102 (2X)	26.1	24.3	–	26.4	29.4	–	6.9	7.1	–
Funk G-5191 (4X)	26.1	–	–	27.6	–	–	7.2	–	–
Warwick SL224 (Sp.)	25.7	–	–	22.6	–	–	5.8	–	–
Golden Harvest H-2290 (3X)	25.4	23.3	–	22.1	25.2	–	5.6	5.8	–
Warwick TX20 (3X)	25.6	24.3	–	23.3	26.9	–	5.9	6.4	–
Super Crost S16 (2X)	25.1	–	–	17.8	–	–	4.5	–	–
Pride R144 (3X)	24.9	24.2	27.4	18.5	23.0	24.3	4.6	5.5	5.7
Golden Harvest H-2370 (2X)	24.1	–	–	24.8	–	–	6.0	–	–
Average	28.6	26.8	30.5	21.2	24.4	25.4	6.0	6.3	6.3
Range	24.1 to 35.1	23.3 to 34.3	26.1 to 35.4	14.1 to 27.6	15.7 to 29.4	21.2 to 28.9	4.6 to 7.2	5.3 to 7.1	5.7 to 6.9
Least significant difference	1.4	1.0	0.8	1.1	0.8	0.6	0.4	0.3	0.2

	1976	1974	1973
Planted	May 15	May 15	May 22
Harvested	September 8	September 3	September 18
Soil Type	Onaway sandy loam	Onaway loam	Onaway loam
Previous Crop	Wheat	Corn	Corn
Population	19,500	20,900	21,000
Rows	28"	28"	28"
Fertilizer	118-72-72, manure	20-80-80, manure	202-64-64, manure
Soil Test: pH	6.6		
P	53 (medium)		
K	176 (medium)		

Farm Cooperators: Robert Cornell, Posen (1976); Louis and Leroy Woloszyk, Posen
County Extension Directors: A. H. Nickels, Alpena (1976); Jay Poffenberger, Rogers City (1975, 1974).
Cooperators: Dr. L. O. Copeland (1976) and L. V. Nelson (1975, 1974), Crop and Soil Sciences Department, Michigan State University.

Table 22. NORTHERN MICHIGAN Zone 4
ALGER COUNTY — TRIAL
One and Two Year Averages — 1976, 1975 (No results from 1974)

Hybrid (Brand—Variety)	% Dry Matter		Tons per Acre: Green Weight		Tons per Acre: Dry Weight	
	1976	2 yrs.	1976	2 yrs.	1976	2 yrs.
Funk G-4077 (3X)	46.5	—	6.7	—	3.1	—
Michigan 2013 (3X)	43.8	36.2	7.9	10.8	3.5	3.7
Pride R097 (3X)	41.9	—	6.9	—	2.9	—
DeKalb DK22 (4X)	41.6	35.3	8.0	10.6	3.3	3.5
Michigan 200 (4X)	41.4	33.9	7.7	11.0	3.2	3.5
Funk G-4040 (2X)	41.1	31.9	9.8	12.4	4.0	3.7
Michigan 275-2X (2X)	41.0	32.9	8.0	11.0	3.3	3.4
Michigan EXP7563	41.0	—	8.8	—	3.6	—
Cargill 185 (4X)	39.3	32.9	7.8	10.4	3.0	3.2
DeKalb 007 (4X)	39.2	31.5	7.1	10.0	2.8	2.9
Pride R102 (3X)	38.4	31.1	7.0	10.1	2.7	2.9
Funk G-4082 (3X)	38.2	31.7	8.8	11.8	3.3	3.5
Northrup King PX420 (3X)	37.1	30.7	7.0	11.0	2.6	3.1
Funk G-5048 (4X)	37.0	30.4	9.0	12.7	3.3	3.6
Stewart 38 (3X)	34.6	28.2	9.6	13.1	3.3	3.5
Michigan 2853 (3X)	34.5	28.5	11.5	14.2	4.0	3.9
Pioneer 3965 (3X)	34.0	29.2	10.6	13.8	3.6	3.9
DeKalb XL311 (3X)	33.4	27.2	8.9	11.0	3.0	2.9
Stewart 3701 (3X)	30.7	26.2	10.1	12.8	3.1	3.2
Michigan 280 (4X)	29.5	26.5	11.2	13.7	3.3	3.5
DeKalb XL310 (3X)	28.9	26.5	9.0	11.5	2.6	3.0
Average	37.9	30.6	8.6	11.7	3.2	3.3
Range	28.9 to 46.5	26.2 to 36.2	6.7 to 11.5	10.0 to 14.2	2.6 to 4.0	2.9 to 3.9
Least significant difference	1.4	0.9	1.0	0.8	0.4	0.3

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

Cooperator: Dr. Richard Leep, Michigan State University, Chatham
County Extension Director: Arvid Norlin, Munising

Table 23. Index for 360 hybrids entered as 1,696 entries in the 1976 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 hybrid, and (Sp.) indicates a special-cross hybrid. Company names used in association with hybrid numbers refer to the brand and the numbers are the variety (hybrid) designation.

ACCO Seed, Belmond, Iowa

Acco U334 (3X) (7, 9, 10, 13, 14, 15, 16, 17)
Acco U356 (3X) (5)
Acco UC2301 (2X) (7, 16, 17)
Acco UC2901 (2X) (8, 11, 12)
Acco UC3201 (2X) (1, 2, 14, 15)
Acco UC3301 (2X) (1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Acco UC4201 (2X) (3, 4, 5)
Acco UC4561 (2X) (1, 2)

Adler's Seeds, Inc., Sharpsville, Indiana

Adler 23X (2X) (1, 2, 3, 4, 5, 6)

Americana Seeds, Inc., Clinton, Wisconsin

Americana 1492 (2X) (14, 15)
Americana 1776 (2X) (9, 10, 14, 15)
Americana 2400 (2X) (3, 9, 10, 14, 15)
Americana 2800 (2X) (3, 9, 10, 14, 15)
Americana 3006 (2X) (3, 9, 10)
Americana 3200 (2X) (3)
Americana 3500A (2X) (3)
Americana 6100A (3X) (14, 15)

Asgrow Seed Co., Des Moines, Iowa

Asgrow RX27 (3X) (20, 21)
Asgrow RX29 (4X) (20, 21)
Asgrow RX32 (MSX) (11, 12, 20, 21)
Asgrow RX42 (2X) (14, 15)
Asgrow RX53 (2X) (4, 16)
Asgrow RX58 (2X) (4, 9, 10, 16)
Asgrow RX2345 (2X) (4, 9, 10, 16)

Bayless Hybrids, Inc., Bluffton, Indiana

Bayless SX214 (2X) (6)
Bayless SX434-3 (2X) (2, 3, 5)
Bayless SX434M (2X) (2, 3, 5, 6)
Bayless SX447 (2X) (2, 3)
Bayless SX637 (2X) (2, 3)

Blaney Farms, Inc., Madison, Wisconsin

Blaney B302 (2X) (4, 7, 9, 10, 16)
Blaney B303A (2X) (2, 4, 6, 8, 11, 12, 13, 14, 15, 16, 17)
Blaney B401 (2X) (2, 6, 7, 11, 12, 14, 15, 16)
Blaney B443 (3X) (16)
Blaney B501A (2X) (17)
Blaney B601WX (2X) (1, 3)
Blaney B605WX (2X) (4, 7, 8, 9, 10, 13, 14, 15, 16)
Blaney B606 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, 17)
Blaney B805 (2X) (1, 3, 5)
Blaney EX7305 (2X) (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Blaney EX7605 (2X) (4, 5, 8)
Blaney EX7606 (2X) (1, 2, 3, 5, 6, 11, 12)
Blaney B-AA (2X) (2, 17)

Cardinal Seed Co., Quincy, Michigan

Cardinal SX93 (2X) (18)
Cardinal SX112 (2X) (1, 4, 9, 10, 13, 14, 15)

Cargill Seeds, Minneapolis, Minnesota

Cargill 185 (4X) (22)
Cargill 434 (3X) (2, 4, 9, 10, 11, 12, 14, 15)
Cargill 449 (3X) (3, 11, 12)
Cargill 825 (2X) (11, 12, 14, 15)
Cargill 848 (2X) (9, 10, 11, 12, 14, 15)
Cargill 863 (2X) (2, 7, 9, 10)
Cargill 875 (2X) (1, 3)
Cargill 890 (2X) (1, 3, 4, 5)

Cowbell Seeds, Inc., Bradley, Michigan

Cowbell 80A (4X) (9, 10)
Cowbell MSX102 (2X) (6, 7, 8, 16, 17)
Cowbell PSX4100 (2X) (4, 5, 6, 7, 8, 9, 10, 13, 16, 17)
Cowbell PSX7300 (2X) (1, 2, 3, 4, 5, 7, 8, 9, 10, 13, 16, 17)
Cowbell PSX7440 (2X) (1, 2, 3, 4, 7)
Cowbell PSX7480 (2X) (1, 2, 3, 4, 5, 7, 9, 10)

Dairyland Seed Co., Inc., Kewaskum, Wisconsin

Dairyland DX1002 (2X) (7, 9, 10, 11, 12)
Dairyland DX1008 (2X) (3, 9, 10, 13)

Dennis Hybrids, Windfall, Indiana

Dennis DS14A (2X) (1, 5)
Dennis DS37 (2X) (1, 3, 5)
Dennis DS37E (2X) (1, 3, 5)
Dennis DS99 (2X) (1, 5)

DeKalb Ag Research, Inc., DeKalb, Illinois

DeKalb 007 (4X) (22)
DeKalb XL12 (2X) (7, 11, 12, 16)
DeKalb XL16 (2X) (8, 11, 12)
DeKalb XL21 (2X) (3)
DeKalb XL21A (2X) (8)
DeKalb DK22 (4X) (22)
DeKalb XL22 (2X) (2, 5, 6)
DeKalb XL42 (2X) (1, 2, 13)
DeKalb XL43 (2X) (7)
DeKalb XL43A (Sp.) (1)
DeKalb XL45A (2X) (2, 3, 13)
DeKalb XL54 (2X) (3, 4)
DeKalb XL64 (2X) (5, 6)
DeKalb XL310 (3X) (22)
DeKalb XL311 (3X) (22)
DeKalb XL321 (3X) (7)

E. J. Funk & Sons, Inc., Kentland, Indiana

Super Crost S14A (2X) (17, 18, 19, 20, 21)
Super Crost S16 (2X) (17, 18, 19, 20, 21)
Super Crost S25 (2X) (2, 3, 13)
Super Crost S27 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Super Crost S29 (2X) (2, 3)
Super Crost 1103 (3X) (17, 18, 19, 20, 21)
Super Crost 1210 (2X) (17, 18, 19, 20, 21)
Super Crost 1610 (2X) (9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 21)
Super Crost 1692 (2X) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19)
Super Crost 1901 (2X) (2, 5, 6, 7, 9, 10, 13, 14, 15, 16)
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 2772 (2X) (1, 2)
Super Crost 2890 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)
Super Crost 3433 (3X) (1, 2, 3)
Super Crost 4242 (2X) (1, 2, 3, 5)
Super Crost 4350 (2X) (1, 2, 3)
Super Crost 5440 (2X) (1, 3)

Funk Seeds International, Bloomington, Illinois 61701

Funk G-4040 (2X) (14, 15, 17, 18, 19, 20, 21, 22)
Funk G-4077 (3X) (20, 21, 22)
Funk G-4082 (3X) (17, 18, 19, 20, 21, 22)

(Continued)

TABLE 23. (Continued)

Funk G-4141 (2X) (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
Funk G-4195 (2X) (4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Funk G-4252 (3X) (4, 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)
Funk G-4288 (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)
Funk G-4321A (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Funk G-4343 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Funk G-4366 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 16)
Funk G-4408 (2X) (1, 2, 3, 4, 5, 6)
Funk G-4444 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Funk G-5048 (4X) (17, 18, 19, 20, 21, 22)
Funk G-5191 (4X) (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)

Garno Seed Co., Inc., Palmyra, Michigan

Garno S-77 (2X) (11, 12, 14, 15, 18)
Garno S-82 (2X) (9, 10, 11, 12, 14, 15, 18)
Garno S-92X (2X) (9, 10, 11, 12, 13, 14, 15)
Garno S-92 (2X) (11, 12)
Garno S-94X (2X) (1, 5, 9, 10, 14, 15)
Garno S-96X (2X) (1, 5, 9, 10, 13)
Garno S-100 (2X) (1, 3, 5, 9, 10, 13)

Fred Gutwein and Sons, Inc., Francesville, Indiana

Gutwein 08 (2X) (13, 14, 15)
Gutwein 10A (2X) (11, 12, 13, 14, 15)
Gutwein 22 (2X) (11, 12, 13, 14, 15)
Gutwein 23 (2X) (2, 5, 7, 9, 10, 13)
Gutwein 40 (2X) (3, 5, 7, 9, 10, 11, 12, 14, 15)
Gutwein 46 (2X) (2, 5, 7, 9, 10, 14, 15)
Gutwein 48 (2X) (5)
Gutwein 62 (2X) (2, 5)
Gutwein 69A (2X) (2, 3)
Gutwein 112 (Sp.) (11, 12)
Gutwein 128 (Sp.) (2, 3, 5)

Helena Chemical Co., Indianapolis, Indiana

Wilstar 3338 (2X) (9, 10, 14, 15)
Wilstar 4440 (2X) (14, 15)
Wilstar 5555 (2X) (1, 3, 9, 10)
Wilstar 6663 (2X) (1, 3)

Hulting Hybrids (Ferry-Morse Seed Co.), Geneseo, Illinois

Hulting X310 (2X) (11, 12, 14, 15)
Hulting X322 (2X) (11, 12, 14, 15)
Hulting X537 (2X) (1, 2, 3)
Hulting X770 (2X) (1, 2, 3)
Hulting X6861 (3X) (1, 2, 3)
Hulting X9761 (3X) (2, 3)
Hulting X9770 (3X) (2, 3)

Jacques Seed Co., Prescott, Wisconsin

Jacques JX20 (2X) (17, 18, 19)
Jacques JX25 (2X) (18)
Jacques JX40 (2X) (8, 17)
Jacques JX52 (2X) (9, 10, 17, 18)
Jacques JX92 (2X) (9, 10)
Jacques JX122A (2X) (1, 2, 4, 11, 12)
Jacques JX124A (2X) (8)
Jacques JX162 (2X) (9, 10)
Jacques JX177 (2X) (4)
Jacques 805 (4X) (19)
Jacques JX823 (3X) (17)
Jacques JX832 (3X) (18)
Jacques 844 (4X) (18)
Jacques JX863 (3X) (17)
Jacques 951 (4X) (17)

Jung Farms, Inc., Randolph, Wisconsin

Jung JX95 (2X) (9, 10)
Jung JX111 (2X) (9, 10)

Lowe Seed Co., Kankakee, Illinois

Lowe LSX14 (2X) (3)
Lowe LSX205 (2X) (3)

McCurdy Seed Co., Fremont, Iowa

McCurdy MSX24 (2X) (6, 8)
McCurdy MSX42 (2X) (5, 6, 8, 9, 10)
McCurday MSX44A (2X) (5, 6, 8)
McCurdy MSX46 (2X) (5, 8, 9, 10)
McCurdy MSX60 (2X) (5)

Michigan Crop Improvement Association, East Lansing, Michigan

Michigan 200 (4X) (18, 19, 20, 21, 22)
Michigan 2013 (2X) (18, 19, 20, 21, 22)
Michigan 275-2X (2X) (17, 18, 19, 20, 21, 22)
Michigan 280 (4X) (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
Michigan 2853 (3X) (7, 8, 9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 21, 22)
Michigan 3093 (3X) (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 396-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
Michigan 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 572-3X (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 EXP7501 (3X) (3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 16, 17)
Michigan EXP7502 (3X) (11, 12, 13, 16, 17, 18, 19, 20, 21)
Michigan EXP7563 (3X) (22)
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 Hybrid Seed Co., East Lansing, Michigan

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

Migro Hybrids, Mitchell, Indiana

Migro M-0101 (2X) (4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17)
Migro M-0301 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Migro M-0501 (2X) (1, 3, 5, 6, 7, 9, 10)
Migro M-0505 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
Migro M-0601 (2X) (1, 2, 3)
Migro M-1020 (2X) (16)
Migro M-1101 (2X) (4)
Migro M-1130 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
Migro M-3020 (4X) (1, 2, 3, 6, 7, 9, 10, 11, 12, 14, 15)
Migro M-4501 (2X) (1, 2, 3, 6, 9, 10)

Muncy Chief Hybrids, Muncy, Pennsylvania

Muncy Chief H304 (4X) (13)
Muncy Chief H401 (4X) (13)
Muncy Chief SX442 (2X) (2, 9, 10, 13)
Muncy Chief SX550 (2X) (2, 9, 10, 13)
Muncy Chief SX662 (2X) (2, 9, 10)
Muncy Chief H764 (4X) (9, 10)
Muncy Chief SX878 (2X) (9, 10)

Northrup King & Co., Minneapolis, Minnesota

Northrup King PX20 (2X) (3, 16, 17)
Northrup King PX32 (2X) (3, 4, 13, 16)
Northrup King PX48 (2X) (2, 3)
Northrup King PX50A (2X) (2, 3)
Northrup King PX65 (2X) (3)
Northrup King KE408 (4X) (22)
Northrup King PX420 (3X) (22
Northrup King PX442 (3X) (19)
Northrup King PX497 (3X) (13)
Northrup King PX529 (3X) (3)
Northrup King PX610 (3X) (4)
Northrup King PX614 (3X) (3)

Occidental Chemical Co., Fort Wayne, Indiana

Oxy 35 (2X) (14, 15)
Oxy 476 (3X) (14, 15)

O's Gold Seed Co., Parkersburg, Iowa

O's Gold SX1100 (2X) (1, 2, 5, 6, 13)
O's Gold SX1107 (2X) (1, 5, 13)
O's Gold SX2101 (2X) (2)
O's Gold SX2145 (2X) (2)
O's Gold SX5500A (2X) (5)

O-Y-O Seed Associates, Inc., Marysville, Ohio

OYO 320 (3X) (1, 2)
OYO 333 (2X) (1, 2)

P-A-G Seeds, Minneapolis, Minnesota

P-A-G SX69 (2X) (2, 3, 9, 10)
P-A-G 145 (2X) (11, 12, 14, 15)
P-A-G SX177 (2X) (6, 9, 10, 11, 12, 14, 15)
P-A-G SX210 (2X) (6, 9, 10, 11, 12)
P-A-G 220 (2X) (6, 9, 10, 11, 12)
P-A-G SX397 (2X) (1, 3)
P-A-G SX424 (2X) (1, 2, 3)
P-A-G 534 (3X) (6, 9, 10, 11, 12, 14, 15)

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

Parker 25 (2X) (3, 6)
Parker 28 (2X) (3, 4)
Parker 30 (2X) (3, 6)
Parker 36 (2X) (5)
Parker 60 (2X) (5)
Parker 200 (3X) (6)

Payco Seeds, Inc., Dassel, Minnesota

Payco 350 (20, 21)
Payco SX465 (2X) (13, 20, 21)
Payco SX680 (2X) (6, 13)
Payco SX775 (2X) (1, 4, 6, 13)
Payco SX865 (2X) (1, 4, 6)

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

Pickseed XR14 (2X) (20, 21)
Pickseed XR44 (2X) (9, 10, 14, 15, 16)
Pickseed 145 (3X) (20, 21)
Pickseed 165 (4X) (20, 21)
Pickseed 185 (Sp.) (14, 15, 16)
Pickseed 323 (Sp.) (9, 10, 14, 15, 16)
Pickseed 2522 (2X) (20, 21)
Pickseed 6266 (Sp.) (14, 15, 16)

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

Pioneer 3518 (Sp.) (4, 5, 6)
Pioneer 3529 (Sp.) (4)
Pioneer 3535 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16)
Pioneer 3709 (MSX) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Pioneer 3716 (3X) (2)
Pioneer 3773 (2X) (3, 5, 6)
Pioneer 3780 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Pioneer 3784 (2X) (1, 7)
Pioneer 3873 (4X) (20, 21)
Pioneer 3955 (3X) (8, 17, 19)
Pioneer 3958 (2X) (11, 12, 13, 14, 15, 16, 17, 19, 20, 21)
Pioneer 3965 (3X) (11, 12, 13, 14, 15, 18, 19, 20, 21, 22)
Pioneer 3977 (3X) (20, 21)

Prairie Stream Farms, Inc., Frankfort, Indiana

Prairie Stream SX3 (2X) (5)
Prairie Stream SX3A (2X) (5)

Pride Seed Inc., Coldwater, Michigan

Pride R097 (3X) (22)
Pride R102 (3X) (22)
Pride R107 (3X) (18, 20, 21)
Pride R144 (3X) (17, 18, 20, 21)
Pride R173 (3X) (17, 18, 20, 21)
Pride R290 (2X) (16)
Pride R501 (2X) (2)
Pride 1117 (2X) (18, 20, 21)
Pride 2206 (2X) (14, 15, 16, 17)
Pride 3315 (2X) (14, 15, 16, 17)
Pride 4404 (2X) (2, 11, 12, 13, 14, 15, 16)
Pride 5525 (2X) (3, 5, 6, 9, 10, 11, 12)
Pride 5574 (2X) (3, 5, 6, 9, 10)
Pride 7715 (2X) (1, 2, 3)

Renk Seed Co., Sun Prairie, Wisconsin

Renk RW2-WX (2X) (3, 5, 9, 10, 11, 12)
Renk RK3 (2X) (7, 14, 15)
Renk RK6 (2X) (6, 7, 14, 15)
Renk RK11AA (2X) (7)
Renk RK16 (2X) (3, 5, 6, 7, 9, 10)
Renk RK44 (2X) (3, 5, 9, 10, 11, 12, 14, 15)
Renk RK66 (2X) (3, 5, 6)
Renk R236 (3X) (3, 9, 10, 11, 12)

Security Seed Co., Williamsburg, Iowa

Security SS97 (2X) (11, 12, 14, 15)
Security SS102 (2X) (3, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Security SS105 (2X) (5, 9, 10, 11, 12, 13, 14, 15)
Security SS108 (2X) (5)

Sohigro, Bad Axe, Michigan

Sohigro 12 (2X) (13, 14, 15, 16, 17)
Sohigro 22 (2X) (13, 14, 15, 16, 17)
Sohigro 44 (13, 16, 17)

Sommer Bros. Seed Co., Pekin, Illinois

Golden Harvest H-2460 (2X) (1, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 16)
Golden Harvest H-2220 (4X) (19)
Golden Harvest H-2290 (3X) (11, 12, 20, 21)
Golden Harvest H-2340 (2X) (6, 13)
Golden Harvest H-2355 (2X) (6, 9, 10, 13, 14, 15, 20, 21)
Golden Harvest H-2370 (2X) (5, 6, 13, 14, 15, 16, 19, 20, 21)

(Continued)

TABLE 23. (Continued)

Golden Harvest H-2385 (2X) (14, 15)
Golden Harvest H-2420 (2X) (6, 9, 10)
Golden Harvest H-2450 (2X) (1, 3, 4, 5, 6, 9, 10, 11, 12, 13, 14, 15, 16)
Golden Harvest H-2500 (2X) (1, 3, 5, 9, 10, 14, 15)
Golden Harvest H-2510 (2X) (1, 3, 5)

Stewart Seeds, Ltd., Ailsa Craig, Ontario

Stewart 38 (3X) (19, 22)
Stewart 255 (2X) (18, 20, 21)
Stewart 290 (Sp.) (11, 12, 14, 15)
Stewart 310 (Sp.) (7, 8, 9, 10, 11, 12, 13, 14, 15)
Stewart 2501 (2X) (18, 20, 21)
Stewart 3-3301 (Sp.) (4, 9, 10)
Stewart 3701 (3X) (19, 22)

Todd Hybrid Corn Co., Burlington, Indiana

Todd M16 (2X) (8)
Todd M30 (2X) (2)
Todd M33 (2X) (2, 8)
Todd M58 (2X) (2, 8)
Todd M59 (2X) (2, 8)

Trojan Seed Co., Madison, Wisconsin

Trojan TXS82 (2X) (18, 20, 21)
Trojan TX85 (3X) (17)
Trojan TX92 (3X) (17)
Trojan TXS94 (2X) (11, 12, 14, 15, 17)
Trojan TXS99 (2X) (14, 15)
Trojan TX100 (3X) (9, 10)
Trojan TXS102 (2X) (1, 2, 3, 4, 6, 9, 10, 11, 12, 13, 14, 15)
Trojan TXS105 (2X) (3)
Trojan TXS108A (2X) (2)
Trojan TXS113 (2X) (1, 5)

Voris Seeds, Inc., Windfall, Indiana

Voris 2372 (2X) (1, 5, 7, 9, 10)
Voris 2392 (2X) (6, 9, 10)
Voris 2402 (2X) (1)
Voris 2422 (2X) (3, 7)
Voris 2442 (2X) (1)
Voris 2452 (Sp.) (6)
Voris 2532 (2X) (1, 3, 5)

Warwick Seed Co., Ltd., Blenheim, Ontario

Warwick TX17 (3X) (20, 21)
Warwick TX20 (3X) (20,21)
Warwick TX27 (3X) (9, 10)
Warwick TX32 (3X) (2, 9, 10)
Warwick SL207 (2X) (20,21)
Warwick SL224 (Sp.) (20, 21)
Warwick SL314 (2X) (2, 9, 10)
Warwick SL501 (Sp.) (2, 9, 10)
Warwick SL601 (2X) (2)

U.S. Steel, Agri-Chemicals Chicago Heights, Illinois

U.S. Steel 0011 (13, 16, 17)
U.S. Steel 0050 (13, 16, 17)

Wyckoff Hybrids, Inc., Valparaiso, Indiana

Wyckoff 1266 (2X) (2, 6)
Wyckoff 2414 (2X) (2, 3, 6)
Wyckoff 3537 (2X) (2, 3)