

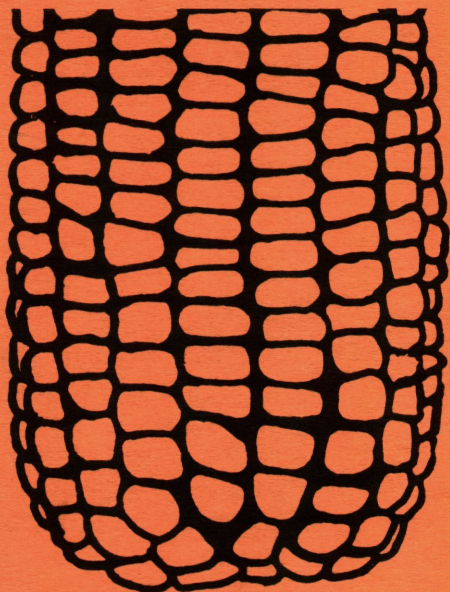
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Michigan Corn Production Hybrids Compared
Michigan State University Extension Service
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HYBRIDS COMPARED 1980

**Cooperative Extension Service
Michigan State University**

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Highest yielding corn hybrids in the 1979 trials produced 30 bushels more corn per acre than the average of 496 hybrids tested and 61 bushels more than the lowest yield hybrids tested (Table A). The respective yields were 135, 105, and 74 for the highest, average and lowest yielding hybrids at the 21 testing locations. The driest hybrids at harvest contained 4% less moisture than the average and 11% less moisture than the wettest hybrids tested. Stalk breakage averaged 19%, 5% and 1% for hybrids with highest, average and lowest amounts of stalk lodging.



Corn Maturity Zones and Locations (★) of Trials

ENTRIES

Two groups of entries are included in the trials:

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

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

Table 28 presents an index of all hybrids entered in the 1979 trials. 496 hybrids were tested as 2,266 entries at 21 testing locations. Company names used in association with hybrid numbers refer to the brand, and the number is the hybrid designation.

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

Michigan experimental hybrids are not listed unless seed is available for farm use.

METHODS

Scientific procedures are followed in conducting these trials to give all hybrids equal opportunity to demonstrate their capabilities. The best way to compare a group of corn hybrids is to grow them all in the same field with the same fertilizer, population, date of planting, etc., for all hybrids.

Seed for Voluntary and Extension entries was submitted by seed companies. An equal number of seeds were counted for each plot of all hybrids. Each hybrid was replicated several times in the field. Plots were planted with a standard two-row corn planter adapted for small plots.

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

Stands and lodging were counted before harvest. Plots for grain 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, Alger, Menominee and Houghton Counties trials (Tables 10, 12, 15, 20, 22, 25 and 27). The Sanilac County

silage trial was on a different farm than the grain trial.

Crows and vandals damaged the Alpena County trials and they were not harvested. Data in Tables 21 and 22 are 1978, 1977 and 1976 results.

Irrigated and non-irrigated comparisons were made in the Montcalm County Trial (Table 17). There were two locations in Cass County — upland soil with irrigation (Table 5) and muck soil (Table 6). The Oceana County trial (Table 18) was irrigated.

Five adapted hybrids at four plant populations (15,400 to 27,500) were tested at 17 locations (Table B). Hybrid x population interactions were not significant, so only the averages are reported. The 19,300 average population produced the highest yield at 16 of the 17 locations. The one location, Cass County, where 23,300 population gave the highest yield was irrigated. When averaged for all locations, 19,300 average plant population produced 13.7, 5.0 and 12.0 bushels more than populations of 15,400, 23,300 and 27,500, respectively. Moisture content of grain averaged .4% to .8% more for the highest populations. There was a noticeable trend toward increased stalk lodging as plant population was increased.

Planting of all trials was completed between May 7-25. 80% of the state acreage was planted by the end of May compared to 85% normal and 90% in 1978. Plant growth started slowly due to cool, wet weather in May. Plant development continued to be 7-10 days behind normal throughout the season. Average plant height was 16 inches by July 2 compared to 22 inches in 1978 and 20 inches normal. Silking averaged 28% by July 30 compared to 48% normal and 80% in 1977.

Moisture stress occurred at some locations during July and August. Less than 20% of the crop was dented by early September compared to 55% in 1978 and 45% normal. September was unusually dry. Some areas did not receive any rain during the month, a record low, and test weight was reduced 10% or more. Corn matured slower than normal.

Moisture content of grain remained higher than normal throughout harvest. High moisture content delayed harvest. Only 15% was harvested by the end of October compared to 40% normal. Most corn in the lower $\frac{2}{3}$ of the state matured before killing frosts occurred. Some killing frosts occurred in northern Michigan before the crop was mature.

The Michigan Crop Reporting Service estimates that a total of 2,750,000 acres were planted to corn, 3% more than 1978. About 2,200,000 acres were harvested for grain and the rest for silage. The average yield was 90 bushels per acre, a new record high state average for Michigan. The previous high was 85 in 1977, 82 in 1978, 69 in 1976, 80 in 1975, 63 in 1974, 79 in 1973 and 83 in 1972. The total crop is estimated at 198 million bushels, up 9% above 1978.

HOW TO USE THIS BULLETIN

One two- and three-year averages are presented for all hybrids tested during 1979, 1978 and 1977.

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.
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 (fooder plus grain) in the silage trails.

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.

Agonomic 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. Differences among hybrids in rate of drying in the field also affect moisture content at harvest but usually do 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 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 mechani-

cal, 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 1980

The following recommendations will help avoid moldy corn in 1980:

1. Plant early.
2. Plant early to medium-early maturing hybrids.
3. Harvest early — during October. Weather problems and harvest losses increase with later harvest.
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 1980

A good supply of high-quality hybrid seed corn is available for 1980 planting. Most of the seed-producing areas had a fair to good growing season with no early killing frost and good harvest conditions.

Table A

AVERAGE, HIGHEST AND LOWEST MOISTURE CONTENT,
GRAIN YIELD, AND STALK LODGING AT 19 LOCATIONS
IN 1979

Location	No. of Hybrids	% Moisture			Bushels per acre			% Stalk lodging		
		Average	Highest	Lowest	Average	Highest	Lowest	Average	Highest	Lowest
Monroe	115	23.1	28.0	19.5	120.8	153.3	90.7	2.3	8.7	0.0
Hillsdale	86	28.0	33.0	22.8	125.0	157.0	90.0	3.0	14.6	0.0
Branch	124	27.7	32.4	23.4	131.7	164.4	86.9	4.0	25.6	0.0
Kalamazoo	74	27.9	32.3	23.7	102.4	126.3	83.8	1.0	4.6	0.0
Cass - Upland irrigated	116	23.4	27.9	20.6	143.4	175.5	106.0	8.0	31.7	0.7
Cass - Muck soil	76	24.6	29.1	22.6	83.3	108.0	66.6	4.6	15.7	0.0
Kent	94	25.8	27.9	22.1	97.6	123.5	78.0	2.2	10.4	0.0
Ottawa	72	27.4	31.7	23.3	106.0	125.9	81.6	0.8	4.2	0.0
Ingham	123	29.7	35.7	23.3	122.4	161.2	79.0	0.8	5.5	0.0
Sanilac	115	30.4	36.0	24.0	115.4	147.7	83.7	1.9	14.3	0.0
Saginaw	105	22.8	26.8	18.6	120.1	160.3	83.8	16.9	45.7	8.3
Huron	121	26.6	34.8	20.3	108.5	139.4	78.4	0.9	9.2	0.0
Isabella	71	26.0	33.1	21.4	75.2	100.4	56.5	3.3	11.6	0.0
Montcalm - Irrigated	83	26.8	34.4	21.2	108.5	142.0	66.9	14.2	47.1	1.1
Montcalm - Not irrigated	83	27.0	34.9	21.1	66.5	91.5	42.0	11.0	42.1	0.1
Oceana	65	27.1	32.7	22.9	104.4	135.6	72.1	4.5	21.5	0.0
Grand Traverse	69	33.1	36.3	29.0	68.2	89.1	48.0	3.9	16.7	0.0
Menominee	40	32.1	51.2	23.5	98.3	127.1	41.2	---	---	---
Houghton	33	38.2	46.8	31.2	105.4	137.3	62.3	---	---	---
Average		26.6	33.9	22.9	105.4	135.0	73.6	4.9	19.4	0.6

Table B

AVERAGE GRAIN YIELD, % MOISTURE AND STALK LODGING
AT FOUR PLANT POPULATIONS FOR 17 LOCATIONS IN 1979

	Bushels per acre				% Moisture in grain				% Stalk lodging			
	15,400	19,300	23,300	27,500	15,400	19,300	23,300	27,500	15,400	19,300	23,300	27,500
Monroe	130.3	144.2	138.7	129.5	24.1	24.0	24.3	24.7	1.4	2.0	4.8	8.3
Hillsdale	127.7	141.9	132.4	130.6	27.3	27.4	27.8	28.0	2.6	4.3	8.6	10.9
Branch	133.1	152.8	147.4	138.2	28.4	28.2	29.0	29.3	5.2	9.8	19.0	22.3
Kalamazoo	109.2	120.5	110.5	104.1	28.1	28.5	28.8	29.2	0.5	0.8	1.0	2.4
Cass - Upland irrigated	140.8	159.7	167.9	160.3	23.7	23.9	24.7	25.0	3.1	7.3	15.1	22.4
Cass - Muck soil	86.2	101.5	86.4	80.7	25.3	25.1	25.8	25.9	2.3	5.7	9.3	15.2
Kent	107.4	119.2	111.3	102.6	26.4	26.8	26.9	27.3	1.7	3.1	7.9	16.4
Ottawa	110.7	121.4	116.3	107.1	28.1	27.8	28.0	28.5	0.0	1.2	1.3	2.1
Ingham	135.7	154.6	150.8	143.4	30.1	30.7	31.0	31.5	0.0	0.5	2.4	3.5
Sanilac	127.6	140.9	135.7	125.3	30.9	31.4	31.6	32.1	3.2	3.0	4.9	8.2
Saginaw	140.7	154.1	153.5	141.2	25.2	25.7	25.5	26.0	5.6	9.3	16.1	21.8
Huron	120.3	136.3	130.7	123.7	27.0	27.2	27.1	27.9	0.0	1.8	4.3	7.2
Isabella	81.3	93.8	86.4	80.2	27.2	26.9	27.6	28.1	0.0	3.2	9.5	14.8
Montcalm - Irrigated	123.2	139.5	137.6	131.3	27.3	27.3	27.9	28.0	1.5	9.4	19.1	23.1
Montcalm - Not irrigated	77.1	86.5	83.2	78.2	27.5	27.5	28.1	28.5	0.7	2.3	7.5	10.7
Oceana	117.3	130.4	126.1	123.6	26.9	27.3	27.4	28.3	0.0	3.4	6.9	15.7
Grand Traverse	79.2	84.3	81.7	74.7	33.6	33.9	34.3	34.9	0.8	5.0	9.7	15.2
Average	114.6	128.3	123.3	116.1	27.5	27.6	28.0	28.4	1.7	4.2	8.7	13.0

Table 1

SOUTHERN MICHIGAN
Monroe County Trial
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Migro M-0101 (2X)	19.5	18	19	114.0	114	115	0.8	5	3
Michigan 333-3X (3X)	19.6	18	19	102.9	106	107	3.3	4	4
Garno S-90 (2X)	20.0	---	---	114.6	---	---	6.1	-	-
Super Crost 78015 (2X)	20.2	---	---	105.6	---	---	1.6	-	-
Michigan 3102 (2X)	20.3	19	20	104.5	110	117	0.0	3	3
Rupp XR1595E (2X)	20.3	---	---	121.8	---	---	2.2	-	-
Funk G-4252 (3X)	20.4	---	---	91.2	---	---	4.9	-	-
Dennis DS8 (2X)	20.8	---	---	115.9	---	---	0.8	-	-
Pioneer 3901 (2X)	20.8	19	19	111.0	115	122	0.0	2	2
Super Crost 1950 (2X)	20.9	---	---	97.9	---	---	3.1	-	-
Michigan 407-2X (2X)	21.1	19	20	121.5	116	123	4.3	6	5
OYO 110 (2X)	21.2	19	---	119.3	110	---	4.8	5	-
Migro M-0105 (2X)	21.4	20	20	117.8	108	114	3.5	5	4
Payco SX799 (2X)	21.5	---	---	97.1	---	---	1.5	-	-
Migro HP16 (2X)	21.6	---	---	90.7	---	---	2.1	-	-
Jacques JX122A (2X)	21.6	---	---	117.7	---	---	4.2	-	-
Voris 2381 (2X)	21.7	---	---	96.0	---	---	0.8	-	-
Lowe LSX 360 (2X)	21.8	---	---	105.5	---	---	2.1	-	-
Jacques JX52 (2X)	21.8	20	---	90.9	95	---	2.8	3	-
Migro HP20 (2X)	21.9	---	---	100.4	---	---	2.2	-	-
Great Lakes GL-452 (2X)	21.9	---	---	101.8	---	---	8.5	3	-
Amcorn 7300 (2X)	22.0	20	21	110.1	115	122	0.8	4	4
Michigan 4122 (2X)	22.0	20	21	109.2	107	121	1.4	4	3
Rupp XR1625E (2X)	22.1	---	---	129.0	---	---	4.4	-	-
Trojan T1008 (2X)	22.2	---	---	125.1	---	---	5.5	-	-
Gries 415	22.2	---	---	123.1	---	---	2.9	-	-
DeKalb XL30a (2X)	22.3	---	---	118.4	---	---	1.5	-	-
Trojan TX92 (3X)	22.3	---	---	91.1	---	---	8.7	-	-
Pioneer 3780 (2X)	22.3	20	21	116.8	111	125	2.1	5	4
Michigan 3953 (3X)	22.3	20	21	105.1	102	115	2.6	6	5
*Anderson SSE (2X)	22.3	20	21	139.8	120	137	3.1	5	4
*Pride 4488 (2X)	22.3	---	---	134.8	---	---	0.0	-	-
P-A-G SX210 (2X)	22.3	---	---	104.7	---	---	2.1	-	-
*Funk G-4321A (2X)	22.5	---	---	141.7	---	---	1.5	-	-
RBA Super 4+ (Sp.)	22.5	---	---	113.6	---	---	3.7	-	-
Amcorn 7480 (2X)	22.5	20	21	125.2	121	126	0.0	2	1
Gold Tag 2060 (2X)	22.5	21	---	127.1	112	---	0.8	3	-
Acco UC2851 (2X)	22.5	21	---	123.7	115	---	1.4	9	-
OYO 275 (2X)	22.6	21	---	113.2	105	---	0.0	4	-
Dairyland 1007B (MSX)	22.6	---	---	120.5	---	---	3.6	-	-
*Anderson SSM (2X)	22.6	20	21	142.9	114	130	0.7	4	3
Golden Harvest H-2370(2X)	22.7	---	---	99.7	---	---	0.0	-	-
Super Crost 3585 (SP.)	22.7	21	---	122.2	120	---	5.6	6	-
Trojan T1058 (2X)	22.7	---	---	100.0	---	---	1.5	-	-
Dairyland 1007 (2X)	22.7	21	---	129.0	120	---	3.5	8	-
Dennis DS6 (2X)	22.8	21	22	132.0	123	130	7.1	5	4
Blaney B-AA-wx (2X)	22.9	21	---	119.2	109	---	4.4	6	-
Lowe LSX 222 (2X)	22.9	---	---	114.9	---	---	2.2	-	-
RBA 104+ (2X)	22.9	---	---	105.4	---	---	2.8	-	-
Blaney B606E (2X)	22.9	21	21	125.7	117	127	2.2	2	2
DeKalb XL25a (2X)	22.9	---	---	128.9	---	---	0.0	-	-
Super Crost 2350 (2X)	22.9	21	22	118.8	111	112	3.1	5	3
Michigan 5802 (2X)	22.9	21	21	124.4	118	128	0.8	3	4
Super Crost 2470 (2X)	23.0	21	21	123.3	115	123	2.4	4	3
*Northrup King PX59 (2X)	23.0	---	---	135.9	---	---	3.6	-	-
*O's Gold SX1107 (2X)	23.0	21	---	146.8	137	---	0.0	2	-
Michigan 5912 (2X)	23.0	21	22	118.7	117	133	0.0	3	2
*Anderson S5X (2X)	23.1	---	---	139.9	---	---	2.1	-	-
Migro HP 27 (2X)	23.1	---	---	129.9	---	---	0.7	-	-
Garno S-100 (2X)	23.2	22	23	130.5	119	128	1.0	4	3
DeKalb XL23 (2X)	23.2	---	---	116.2	---	---	2.1	-	-
Hyland HL-2784 (2X)	23.2	---	---	117.1	---	---	3.7	-	-
*Dennis DS11 (2X)	23.2	---	---	142.7	---	---	5.6	-	-
*Rupp XR1625 (2X)	23.2	---	---	149.5	---	---	1.6	-	-
*Payco SX844 (2X)	23.2	21	---	135.0	121	---	1.9	5	-
Funk G-4430 (2X)	23.2	21	21	117.7	111	125	4.3	4	3
Wolverine W174A (2X)	23.2	---	---	129.4	---	---	0.7	-	-
*Golden Harvest H-2448 (2X)	23.3	---	---	134.7	---	---	1.5	-	-
*Great Lakes GL-552 (2X)	23.3	---	---	134.4	---	---	0.0	-	-
Migro M-2018X (2X)	23.3	21	22	132.0	113	125	0.7	2	2
*Blaney B606 (2X)	23.4	21	22	134.7	122	130	2.8	2	2
Funk G-4323 (MSX)	23.4	---	---	120.4	---	---	0.0	-	-
P-A-G SX249 (2X)	23.5	22	---	117.9	114	---	0.7	8	-
Migro HP23R (2X)	23.5	---	---	126.4	---	---	0.0	-	-
OYO 125 (3X)	23.5	22	---	120.8	102	---	4.4	4	-

(continued)

Table 1 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Northrup King PX49 (2X)	23.6	21	---	132.7	124	---	2.8	6	-
*Michigan 5922 (2X)	23.6	22	---	137.1	130	---	1.7	2	-
Super Crost 4242 (2X)	23.7	---	---	115.9	---	---	3.8	-	-
DeKalb XL54 (2X)	23.8	22	---	119.4	107	---	1.4	2	-
*Pride 5589 (2X)	23.8	---	---	134.2	---	---	0.0	-	-
Migro M-2022X (2X)	24.0	22	22	126.3	113	127	4.1	3	4
Acco UC3301A (2X)	24.0	23	23	126.1	118	130	3.5	5	6
Asgrow RX616 (2X)	24.0	---	---	106.7	---	---	3.4	-	-
*Pioneer 3541 (2X)	24.1	21	---	140.3	126	---	1.4	1	-
DeKalb XL42a (2X)	24.1	---	---	119.1	---	---	0.7	-	-
Asgrow RX544 (MSX)	24.2	---	---	118.1	---	---	1.4	-	-
Voris 2481 (Sp.)	24.2	---	---	115.6	---	---	2.5	-	-
Lowe LSX 217 (2X)	24.3	---	---	114.8	---	---	0.7	-	-
Lowe LSX100 (2X)	24.3	---	---	122.0	---	---	0.7	-	-
Pioneer 3535 (2X)	24.4	22	23	131.9	114	129	0.0	1	1
Anderson AX4 (Sp.)	24.4	21	21	117.7	109	123	2.0	3	5
P-A-G SX397 (2X)	24.5	---	---	118.2	---	---	2.2	-	-
DeKalb XL55a (2X)	24.5	---	---	132.0	---	---	6.2	-	-
Gold Tag 770 (2X)	24.5	22	22	116.8	114	123	6.7	5	4
Voris 2422 (2X)	24.5	23	---	120.4	119	---	0.0	4	-
Super Crost 79022 (2X)	25.0	---	---	130.6	---	---	1.5	-	-
Golden Harvest H-2450(2X)	25.0	22	22	104.2	112	117	5.6	6	4
Migro SPX49 (2X)	25.1	---	---	131.7	---	---	6.2	-	-
Super Crost 2880 (2X)	25.4	23	---	127.2	117	---	0.0	3	-
*Pride 7715 (2X)	25.4	23	25	153.3	133	142	2.1	3	3
Migro HP34 (2X)	25.5	---	---	110.6	---	---	0.6	-	-
Dennis DS36 (2X)	25.8	23	---	116.7	113	---	0.0	2	-
Payco SX775 (2X)	25.9	22	22	112.3	120	125	0.0	1	1
Acco UC4201 (2X)	26.0	---	---	118.6	---	---	1.4	-	-
*Blaney B805 (2X)	26.1	24	24	147.4	124	138	0.7	3	3
RBA Super 4 (2X)	26.1	---	---	116.5	---	---	2.1	-	-
*Funk G-4507 (2X)	26.2	24	24	150.3	132	143	0.0	1	1
*Golden Harvest H-2500(2X)	26.4	24	25	143.9	127	142	0.7	1	0
*Voriss 2532 (2X)	26.9	24	25	135.4	118	136	1.5	2	1
Super Crost 4350 (2X)	27.1	24	24	128.0	119	124	0.8	4	3
P-A-G SX277 (2X)	27.2	---	---	117.4	---	---	0.0	-	-
*Trojan TXS 115A (2X)	27.5	25	26	151.7	129	139	1.4	4	3
Anderson SSL (2X)	27.8	---	---	115.9	---	---	0.7	-	-
Golden Harvest H-2600(2X)	27.9	24	25	124.9	122	133	2.8	2	1
Payco SX990 (2X)	28.0	25	25	133.3	129	137	0.0	2	2
Average	23.1	21	22	120.8	116	126	2.3	4	3
Range	19.5 to 28.0	18 to 25	19 to 26	90.7 to 153.3	95 to 137	107 to 143	0.0 to 8.7	1 to 9	0 to 6
Least significant difference	1.3	0.8	0.7	13.0	7	5			

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 9	May 2	April 21
Harvested	November 20	October 24	October 18
Soil type	Pewamo loam	Pewamo loam	Pewamo loam
Previous crop	Wheat	Soybeans	Corn
Population	20,500	19,300	18,200
Rows	30"	30"	30"
Fertilizer	201-189-189	213-147-147	235-180-180
Soil test: pH	6.1	6.7	6.7
P	305 (very high)	111 (very high)	207 (very high)
K	442 (very high)	260 (high)	174 (medium)

Farm Cooperator: Orville Montri, LaSalle

County Extension Director: Paul Nevel, Monroe

Table 2

SOUTHERN MICHIGAN
Hillsdale County Trial
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Michigan 333-3X (3X)	22.8	21	21	124.6	110	103	8.7	4	3
Rupp XR1595E (2X)	23.6	---	---	126.5	---	---	2.8	-	-
Super Crost 78015 (2X)	24.1	---	---	102.8	---	---	12.0	-	-
Garno S-90 (2X)	24.2	---	---	129.7	---	---	1.4	-	-
Michigan 3102 (2X)	24.7	23	22	124.3	114	107	4.8	3	2
Warwick SL501 (Sp.)	25.0	23	23	90.0	94	96	14.6	7	5
RBA 96 (Sp.)	25.3	---	---	114.4	---	---	3.5	-	-
Warwick W966 (Sp.)	25.3	24	---	114.7	100	---	12.8	6	-
RBA 94 (2X)	25.4	---	---	109.3	---	---	2.7	-	-
Super Crost 1950 (2X)	25.6	---	---	111.2	---	---	3.4	-	-
Funk G-4315 (MSX)	25.7	---	---	109.8	---	---	0.7	-	-
Michigan 407-2X (2X)	25.7	---	---	130.9	---	---	3.6	-	-
Pioneer 3901 (2X)	25.8	24	---	133.0	121	---	1.2	1	-
Migro HP20 (2X)	25.8	---	---	109.9	---	---	12.7	-	-
Gutwein 112 (3X)	25.9	24	---	102.0	108	---	6.4	3	-
Blaney B506 (2X)	26.3	24	24	123.8	123	121	0.0	0	0
DeKalb XL25a (2X)	26.4	---	---	130.4	---	---	0.0	-	-
Dairyland 1008X (2X)	26.4	---	---	119.3	---	---	12.3	-	-
Michigan 3953 (3X)	26.5	24	24	120.3	119	112	8.2	4	3
OYO 110 (2X)	26.6	25	---	111.5	104	---	1.4	1	-
Michigan 4122 (2X)	26.8	25	24	125.7	113	112	2.6	2	1
Anderson SSE (2X)	26.8	24	---	120.4	113	---	9.6	5	-
Blaney B501A (2X)	26.9	25	---	116.2	116	---	9.0	5	-
Golden Harvest Exp. 517 (2X)	26.9	---	---	119.1	---	---	2.1	-	-
Warwick W1010 (2X)	27.0	---	---	124.8	---	---	5.4	-	-
Dairyland 1007 (2X)	27.1	26	---	139.5	125	---	0.0	0	-
*Super Crost 2350 (2X)	27.1	25	25	143.6	128	125	9.5	5	4
Acco UC2851 (2X)	27.2	---	---	124.0	---	---	4.1	-	-
Rupp XR1625E (2X)	27.2	---	---	135.5	---	---	2.1	-	-
*DeKalb XL55a (2X)	27.3	---	---	151.6	---	---	1.7	-	-
Michigan 5802 (2X)	27.3	25	25	137.6	125	118	0.0	1	1
Select 3100 (2X)	27.3	---	---	121.7	---	---	0.0	-	-
Pride 4449 (2X)	27.3	---	---	113.9	---	---	0.7	-	-
Anderson AX4 (Sp.)	27.4	25	---	115.7	111	---	0.0	1	-
OYO 125 (3X)	27.4	25	---	116.2	100	---	7.9	4	-
OYO 275 (2X)	27.5	25	---	130.1	123	---	0.0	0	-
Migro M-2022X (2X)	27.7	25	25	117.7	107	106	0.0	1	1
Warwick W1101 (2X)	27.7	26	25	141.8	113	107	2.1	1	1
*Migro M-2018X (2X)	27.8	26	26	156.4	130	127	0.0	0	0
*Select 3300 (2X)	27.8	---	---	143.8	---	---	1.4	-	-
Migro HP 23R (2X)	27.8	---	---	137.5	---	---	1.4	-	-
Funk G-4323 (MSX)	27.9	25	---	133.6	114	---	0.0	1	-
DeKalb XL23 (2X)	27.9	---	---	131.7	---	---	6.0	-	-
Pioneer 3780 (2X)	27.9	25	25	141.9	124	115	1.4	1	1
Rupp XR1525 (2X)	27.9	---	---	127.0	---	---	0.0	-	-
Gutwein 2250 (2X)	28.0	26	---	126.3	109	---	2.7	3	-
DeKalb XL32a (2X)	28.0	---	---	124.1	---	---	0.0	-	-
Gutwein 46 (2X)	28.0	26	26	139.8	128	121	0.7	0	0
Michigan 5912 (2X)	28.0	26	26	133.6	127	123	3.0	3	2
RBA 104+ (2X)	28.0	---	---	102.9	---	---	12.8	-	-
Gold Tag 2060 (2X)	28.0	26	---	138.9	117	---	0.7	0	-
Amcorn 7300 (2X)	28.1	26	26	111.5	117	113	0.0	1	1
*Michigan 5922 (2X)	28.2	26	---	148.2	137	---	0.0	0	-
Acco UC3002 (2X)	28.2	---	---	132.3	---	---	2.1	-	-
Cargill 872 (2X)	28.2	---	---	115.5	---	---	4.1	-	-
Migro HP27 (2X)	28.3	---	---	152.5	---	---	0.8	-	-
Gold Tag 770 (2X)	28.3	26	26	126.7	125	123	0.7	1	1
Great Lakes GL-552 (2X)	28.4	---	---	140.1	---	---	1.5	-	-
*Blaney B606 (2X)	28.4	26	25	149.9	123	119	0.7	0	0
*Golden Harvest H-2448(2X)	28.5	---	---	143.5	---	---	0.0	-	-
*Anderson SSM (2X)	28.5	26	---	153.3	129	---	7.7	4	-
*Garno S-100 (2X)	28.6	---	---	143.9	---	---	1.4	-	-
Anderson SSX (2X)	28.6	---	---	122.3	---	---	0.0	-	-
Super Crost 2470 (2X)	28.6	26	26	127.7	123	121	0.0	0	0
Amcorn 7480 (2X)	28.6	26	26	130.9	116	108	4.3	2	2
Blaney B-AA-WX (2X)	28.7	26	---	125.0	109	---	6.2	4	-
*Pride 5525 (2X)	28.7	27	26	157.0	129	124	0.0	0	0
DeKalb XL42a (2X)	28.8	---	---	117.1	---	---	1.4	-	-
Super Crost 79022 (2X)	28.9	---	---	127.0	---	---	2.1	-	-
*Funk G-4430 (2X)	29.2	27	27	143.6	130	129	0.7	1	1
Pioneer 3535 (2X)	29.3	27	27	131.2	122	112	0.0	0	0
Cargill 892 (2X)	29.3	---	---	126.9	---	---	0.7	-	-
Cargill 924 (2X)	29.8	28	---	113.4	100	---	3.4	4	-
Pioneer 3541 (2X)	30.1	28	---	121.2	103	---	2.1	3	-
Migro HP34 (2X)	30.9	---	---	110.6	---	---	0.0	-	-

(continued)

Table 2 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Dairyland 1011 (2X)	31.2	---	---	121.1	---	---	1.0	-	-
Migro SPX49 (2X)	31.2	---	---	120.7	---	---	1.3	-	-
Gutwein 2340 (2X)	31.4	28	---	133.2	121	---	2.2	1	-
Gutwein 62 (2X)	31.6	29	30	135.3	113	114	1.4	2	0
*Pride 7715 (2X)	32.4	30	30	146.3	120	111	0.0	0	0
Migro M-0505 (2X)	32.4	30	30	150.8	135	124	0.9	1	1
Wolverine W174A (2X)	32.4	---	---	122.1	---	---	0.8	-	-
Golden Harvest H-2500(2X)	32.4	---	---	135.9	---	---	2.9	-	-
*Anderson SSL (2X)	32.6	---	---	146.4	---	---	2.0	-	-
Trojan TXS115A (2X)	33.0	30	---	131.3	129	---	0.0	0	-
Dairyland 1016 (2X)	33.0	---	---	131.5	---	---	1.4	-	-
Average	28.0	26	26	125.0	118	116	3.0	2	1
Range	22.8 to 33.0	21 to 30	21 to 30	90.0 to 157.0	94 to 137	96 to 129	0.0 to 14.6	0 to 7	0 to 5
Least significant difference	1.3	0.9	0.6	13.8	8	6			

	1979	1978	1977
Planted	May 16	May 18	May 14
Harvested	November 5	October 24	October 21
Soil type	Blount clay loam	Blount clay loam	Griffin sandy loam
Previous crop	Corn	Corn	Soybeans
Population	21,000	20,600	20,800
Rows	30"	30"	30"
Fertilizer	158-108-108	164-70-35	136-118-192
Soil test: pH	6.8	6.8	6.8
P	118 (very high)	32 (low)	32 (low)
K	387 (very high)	228 (high)	236 (high)

Farm Cooperator: Don and Ed Marshall, Litchfield (1979, 1978)
Dean Shampo, Pittsford (1977)

County Extension Director: James Pelham

Table 3

SOUTHERN MICHIGAN
Branch County Trial
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Garno S-90 (2X)	23.4	---	---	112.5	---	---	2.2	---	---
Michigan 333-3X (3X)	23.4	20	20	99.5	109	105	3.0	2	6
Pioneer 3965A (3X)	23.8	---	---	88.3	---	---	1.4	---	---
Rupp XR1595E (2X)	24.1	---	---	88.0	---	---	0.7	---	---
Pioneer 3901 (2X)	24.3	21	---	108.9	116	---	3.4	2	---
Super Crost 1692 (2X)	24.3	---	---	86.9	---	---	8.8	---	---
Michigan 3102 (2X)	24.4	22	22	105.9	131	130	4.5	3	2
Michigan 407-2X (2X)	24.4	22	22	135.3	140	143	6.8	3	3
Blaney B401 (2X)	24.7	22	---	111.6	133	---	4.3	3	---
Warwick SL501 (Sp.)	24.7	---	---	90.1	---	---	5.6	---	---
Migro M-0101 (2X)	24.9	22	22	106.7	130	130	12.0	6	8
Hyland HL-2450 (2X)	25.0	---	---	89.6	---	---	9.2	---	---
Dairyland 1005 (2X)	25.1	---	---	104.6	---	---	11.0	---	---
Renk R146 (3X)	25.2	---	---	140.9	---	---	1.5	---	---
Wolverine W169 (2X)	25.2	23	23	108.5	120	129	2.9	1	2
Gutwein 2140 (2X)	25.3	---	---	112.6	---	---	15.0	---	---
Funk G-4224 (MSX)	25.4	---	---	101.4	---	---	4.9	---	---
Great Lakes 452 (2X)	25.4	---	---	117.7	---	---	3.8	---	---
Dennis DS8 (2X)	25.5	---	---	103.8	---	---	12.0	---	---
Wolverine W168 (2X)	25.7	---	---	103.7	---	---	1.3	---	---
Pioneer 3780 (2X)	25.7	23	23	133.5	140	151	2.8	1	2
Rupp XR1625E (2X)	25.8	---	---	137.2	---	---	2.8	---	---
Northrup King PX37 (2X)	25.9	23	---	137.3	149	---	1.4	1	---
Michigan 4122 (2X)	25.9	23	23	133.4	141	148	4.0	3	3
DeKalb XL25A (2X)	25.9	---	---	139.5	---	---	0.0	---	---
Michigan 3953 (3X)	25.9	23	---	125.9	135	---	3.3	2	---
Warwick W1010 (2X)	26.0	---	---	110.7	---	---	25.6	---	---
Select 3100 (2X)	26.0	---	---	109.1	---	---	5.8	---	---
Super Crost 78015 (2X)	26.1	---	---	116.1	---	---	3.4	---	---
Renk RK15 (2X)	26.1	23	23	107.5	112	126	5.6	3	2

(continued)

Table 3 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Super Crost 1950 (2X)	26.2	---	---	113.4	---	---	12.4	---	---
Solar 1101 (2X)	26.2	---	---	112.4	---	---	4.1	---	---
Asgrow RX 616 (2X)	26.2	---	---	123.9	---	---	10.1	---	---
Migro HP-20 (2X)	26.3	---	---	107.0	---	---	6.0	---	---
Michigan 5802 (2X)	26.5	23	24	141.1	148	153	6.9	4	4
Migro M-2022X (2X)	26.5	24	24	141.8	150	153	3.5	2	1
Golden Harvest H-2450 (2X)	26.5	24	24	114.1	143	143	9.3	6	5
*Anderson SSE (2X)	26.6	23	24	151.1	146	152	4.8	2	3
Farm Bureau FB3330 (MSX)	26.6	---	---	122.3	---	---	9.2	---	---
Warwick W966 (Sp.)	26.7	---	---	101.1	---	---	11.5	---	---
Pride 5589 (2X)	26.7	---	---	119.4	---	---	5.4	---	---
Funk G-4272 (3X)	26.7	---	---	104.4	---	---	10.2	---	---
Acco UC2951 (2X)	26.8	---	---	126.1	---	---	4.5	---	---
Renk RK40 (2X)	26.8	23	---	130.1	135	---	2.7	3	---
*Blaney B606E-WX (2X)	26.8	---	---	149.0	---	---	1.4	---	---
*DeKalb XL42a (2X)	26.9	---	---	149.9	---	---	3.1	---	---
Northrup King PX49 (2X)	26.9	23	---	149.9	157	---	1.3	1	---
DeKalb XL23 (2X)	27.0	---	---	134.4	---	---	2.1	---	---
*Bayless SX424 (2X)	27.0	---	---	161.3	---	---	1.4	---	---
ADI 325 (2X)	27.0	---	---	126.6	---	---	1.5	---	---
Renk RK66E (2X)	27.0	---	---	125.6	---	---	2.9	---	---
Anderson SSX (2X)	27.1	---	---	126.8	---	---	4.9	---	---
Migro M-0105 (2X)	27.1	23	---	105.0	113	---	9.9	5	---
Blaney B-601WX (2X)	27.1	24	25	120.8	125	143	7.1	4	5
Anderson AX-4 (Sp.)	27.2	24	24	119.4	140	143	5.3	3	3
Michigan 5912 (2X)	27.2	24	---	131.8	151	---	4.0	2	---
*Bayless SX434M (2X)	27.2	24	24	145.9	143	151	1.4	1	1
Super Crost 2350 (2X)	27.2	23	23	136.9	141	149	4.1	2	3
*Migro HP-23R (2X)	27.2	---	---	145.8	---	---	2.8	---	---
*Great Lakes GL-552 (2X)	27.3	---	---	146.1	---	---	2.9	---	---
ADI 323 (2X)	27.3	24	---	136.7	144	---	2.8	2	---
Garno S-100 (2X)	27.5	25	---	142.5	142	---	2.7	3	---
*Select 3300 (2X)	27.5	---	---	161.6	---	---	0.7	---	---
*Michigan 5922 (2X)	27.6	25	---	158.4	162	---	0.8	0	---
Acco UC3301-A (2X)	27.6	25	26	137.5	145	150	13.8	7	5
Migro M-2018X (2X)	27.6	24	25	143.3	141	152	2.2	1	2
Solar 1301 (2X)	27.6	---	---	128.1	---	---	5.0	---	---
Solar 2005 (3X)	27.7	---	---	138.6	---	---	3.7	---	---
Dairyland 1007 (2X)	27.8	24	25	132.8	139	145	2.1	1	1
*Funk G-4430 (2X)	27.9	25	25	154.7	149	159	2.8	1	3
Solar 1602 (2X)	27.9	24	---	125.4	132	---	2.2	1	---
Wolverine W174A (2X)	27.9	---	---	139.8	---	---	2.0	---	---
Voris 2422 (2X)	27.9	24	25	136.0	146	152	2.7	4	3
Voris X441 (2X)	28.0	---	---	138.7	---	---	5.5	---	---
Gutwein 69A (2X)	28.0	24	25	135.7	146	157	7.3	4	3
Super Crost 2470 (2X)	28.0	24	24	121.0	137	138	0.7	0	1
*Amcorn 7480 (2X)	28.1	24	24	155.6	153	153	2.1	1	1
Renk RK66 (2X)	28.1	24	---	145.0	150	---	0.7	2	---
Dennis DS11 (2X)	28.2	---	---	137.2	---	---	10.3	---	---
*Migro HP27 (2X)	28.2	---	---	148.9	---	---	1.4	---	---
Super Crost 4242 (2X)	28.2	25	26	123.9	129	146	4.9	2	3
Cargill 872 (2X)	28.2	---	---	119.7	---	---	1.4	---	---
*P-A-G SX249 (2X)	28.2	25	---	147.7	146	---	4.9	2	---
Dairyland 1007B (MSX)	28.2	---	---	138.1	---	---	1.4	---	---
Dennis DS6 (2X)	28.2	25	25	110.9	127	140	0.0	0	0
*DeKalb XL55a (2X)	28.5	---	---	154.8	---	---	2.9	---	---
Pride 5525 (2X)	28.5	---	---	127.5	---	---	0.7	---	---
Pioneer 3541 (2X)	28.5	25	---	133.6	153	---	0.7	0	---
*Anderson SSM (2X)	28.5	24	25	156.3	138	139	3.4	3	2
Pioneer 3535 (2X)	28.6	26	26	140.1	143	155	0.7	1	1
Solar 2010 (3X)	28.6	---	---	126.8	---	---	6.3	---	---
*ADI 315 (2X)	28.8	25	26	159.8	153	156	3.6	2	1
Blaney B606 (2X)	28.9	25	25	143.3	136	148	1.5	1	1
Voris 2481 (Sp.)	28.9	---	---	122.5	---	---	5.0	---	---
Cargill 892 (2X)	28.9	---	---	127.6	---	---	2.8	---	---
Acco UC3002 (2X)	29.0	25	25	124.7	142	149	0.7	0	1
*Rupp XR1625 (2X)	29.0	---	---	148.4	---	---	1.4	---	---
Gold Tag 770 (2X)	29.1	---	---	130.3	---	---	4.3	---	---
DeKalb XL32A (2X)	29.2	---	---	135.3	---	---	2.2	---	---
Amcorn 7300 (2X)	29.2	25	25	121.3	137	142	2.8	1	4
*Cargill 924 (2X)	29.4	---	---	156.9	---	---	1.3	---	---
P-A-G SX397 (2X)	29.4	25	26	143.1	155	163	6.4	3	3
Gold Tag 2060 (2X)	29.7	24	---	125.0	141	---	3.6	2	---
Gutwein 2340 (2X)	29.8	---	---	133.2	---	---	0.9	---	---
Voris 2472 (2X)	29.9	---	---	138.2	---	---	0.0	---	---

(continued)

Table 3 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
*ADI 555 (2X)	30.3	27	27	160.6	164	172	0.0	0	0
Blaney B703 (2X)	30.3	26	26	131.5	138	149	2.9	1	1
ADI 575 (2X)	30.4	27	27	135.3	148	160	2.9	1	1
Anderson SSL (2X)	30.4	---	---	145.1	---	---	0.7	---	---
Dairyland 1016 (2X)	30.7	27	---	145.2	148	---	1.4	2	---
*Dairyland 1011 (2X)	30.8	---	---	157.4	---	---	1.0	---	---
Golden Harvest 2448 (2X)	30.9	---	---	140.7	---	---	2.3	---	---
*Dennis DS36 (2X)	30.9	---	---	149.5	---	---	4.2	---	---
P-A-G SX277 (2X)	31.0	---	---	140.3	---	---	0.8	---	---
*Pride 7715 (2X)	31.2	27	28	156.9	163	176	1.4	1	1
*Bayless SX637 (2X)	31.2	27	---	148.1	158	---	2.7	2	---
Renk RK77 (2X)	31.4	27	---	143.9	156	---	0.0	0	---
*Parker 60 (2X)	31.5	27	---	157.6	158	---	0.7	1	---
*Trojan TKS115A (2X)	31.6	28	28	163.5	161	171	2.1	1	2
*Funk G-4507 (2X)	31.8	27	28	161.1	167	169	1.5	1	2
*Blaney B805 (2X)	32.0	28	28	157.6	157	168	2.9	2	2
*Northrup King PX74 (2X)	32.1	28	---	155.3	156	---	1.4	1	---
*Golden Harvest H-2500 (2X)	32.3	28	28	157.8	166	172	1.5	2	2
*Select 5100 (2X)	32.4	---	---	164.4	---	---	0.0	---	---
Average	27.7	24	25	131.7	143	149	4.0	2	2
Range	23.4	20	20	86.9	109	105	0.0	0.0	0
	to	to	to	to	to	to	to	to	to
	32.4	28	28	164.4	167	176	25.6	7	8
Least significant difference	1.6	1.1	0.7	14.0	11	6			

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 22	May 4	May 10
Harvested	November 2	October 27	October 14
Soil type	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
Previous crop	Corn	Corn	Corn
Population	21,200	20,600	20,900
Rows	30"	30"	30"
Fertilizer	185-64-0	157-69-0	165-64-0
Soil test: pH	7.7	7.1	7.1
P	309 (very high)	178 (very high)	234 (very high)
K	556 (very high)	248 (high)	227 (high)

Farm Cooperator: George Matthews, Union City

County Extension Director: Paul Thompson, Coldwater

Table 4

SOUTHERN MICHIGAN
Kalamazoo County Trial
One, Two, Three Year Averages - 1979, 1978, 1977

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Funk G-4141 (2X)	23.7	---	---	92.1	---	---	0.0	-	-
Michigan 333-3X (3X)	23.8	21	22	90.1	112	107	1.0	1	1
Migro M-0101 (2X)	24.1	21	23	92.7	106	99	3.9	2	6
DeKalb XL15 (2X)	24.1	---	---	102.8	---	---	3.0	-	-
Payco SX637 (2X)	24.4	---	---	96.0	---	---	3.0	-	-
Michigan 3102 (2X)	24.5	22	24	96.9	114	113	0.0	0	0
Migro M-0105 (2X)	24.8	22	24	83.8	100	100	1.5	1	1
Hyland HL-2458 (2X)	25.3	---	---	99.4	---	---	3.9	-	-
Funk G-4195 (3X)	25.3	21	23	86.7	97	97	3.0	2	1
Payco SX844 (2X)	25.4	23	---	109.6	111	---	0.8	0	-
Pioneer 3901 (2X)	25.5	22	---	101.6	120	---	0.0	0	-
*Pride 4488 (2X)	25.7	24	---	115.1	123	---	0.0	0	-
Migro HP16 (2X)	25.7	---	---	87.8	---	---	0.8	-	-
Michigan 3953 (3X)	25.8	23	25	96.2	111	116	1.8	1	1
Select 2600 (2X)	25.9	---	---	105.7	---	---	0.0	-	-
Garno S-90 (2X)	26.0	---	---	97.4	---	---	0.7	-	-
Migro HP20 (2X)	26.1	---	---	87.5	---	---	0.8	-	-
Michigan 407-2X (2X)	26.3	23	25	106.8	120	122	2.0	1	1
Blaney B606E (2X)	26.4	23	26	95.0	115	119	0.7	0	0
DeKalb XL25a (2X)	26.4	---	---	96.4	---	---	0.0	-	-

(continued)

Table 4 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Select 2200 (MSX)	26.7	---	---	97.7	---	---	2.4	-	-
Great Lakes GL-452 (2X)	26.8	---	---	88.0	---	---	3.5	-	-
Funk G-4272 (3X)	27.0	24	25	102.1	103	114	0.8	0	0
Funk G-4323 (MSX)	27.2	24	---	106.4	126	---	0.0	0	-
Northrup King PX32 (2X)	27.3	---	---	90.8	---	---	0.8	-	-
*Amcorn 7480 (2X)	27.3	24	26	115.7	121	124	0.0	0	1
DeKalb XL32a (2X)	27.4	---	---	108.4	---	---	0.0	-	-
*Migro M-2018X (2X)	27.4	24	26	124.1	130	131	0.0	0	0
*Northrup King PX59 (2X)	27.5	---	---	125.6	---	---	0.0	-	-
*Michigan 4122 (2X)	27.5	24	26	115.7	123	123	0.0	0	0
Amcorn 7300 (2X)	27.6	24	27	98.1	108	110	3.3	2	1
Northrup King PX49 (2X)	27.6	---	---	97.3	---	---	2.3	-	-
Pioneer 3780 (2X)	27.6	24	26	100.4	115	117	1.7	1	2
Acco UC2951 (2X)	27.7	---	---	91.0	---	---	2.5	-	-
O's Gold SX999 (2X)	27.9	---	---	96.3	---	---	0.0	-	-
Dairyland 1008X (2X)	28.1	---	---	111.9	---	---	0.0	-	-
Migro HP23R (2X)	28.1	---	---	86.1	---	---	0.0	-	-
Northrup King PX37 (2X)	28.1	---	---	101.3	---	---	0.8	-	-
Funk G-4343 (2X)	28.1	---	---	87.3	---	---	0.8	-	-
Funk G-4321A (2X)	28.2	---	---	104.8	---	---	1.5	-	-
*Golden Harvest H-2448(2X)	28.2	---	---	113.5	---	---	0.0	-	-
Michigan 5802 (2X)	28.2	25	27	111.8	121	126	3.1	2	1
Select 3100 (2X)	28.2	---	---	107.1	---	---	0.0	-	-
*Great Lakes GL-552 (2X)	28.2	---	---	122.3	---	---	0.0	-	-
*Migro M-2022X (2X)	28.4	24	27	113.0	128	130	0.0	0	1
Asgrow RX2345 (2X)	28.4	25	27	108.5	117	121	1.5	1	1
Wolverine W166 (2X)	28.6	24	---	101.0	123	---	0.0	0	-
Michigan 5912 (2X)	28.6	25	27	109.5	125	129	0.0	0	0
*DeKalb XL55a (2X)	28.7	---	---	122.1	---	---	3.3	-	-
Asgrow RX544 (MSX)	28.7	---	---	98.3	---	---	0.7	-	-
Pride 4449 (2X)	28.9	---	---	91.2	---	---	0.8	-	-
Super Crost 2350 (2X)	28.9	25	26	103.1	120	116	0.0	0	0
Super Crost 79022 (2X)	29.0	---	---	110.9	---	---	0.8	-	-
*Michigan 5922 (2X)	29.1	---	---	126.3	---	---	0.0	-	-
*Pioneer 3541 (2X)	29.2	25	---	117.4	124	---	0.0	0	-
Hyland HL-2784 (2X)	29.4	---	---	100.7	---	---	2.1	-	-
Pioneer 3535 (2X)	29.4	26	27	100.0	116	115	0.0	0	0
Acco UC4201 (2X)	29.7	28	29	99.1	113	116	0.0	0	0
DeKalb XL23 (2X)	29.9	---	---	97.9	---	---	2.2	-	-
Acco UC301A (2X)	29.9	---	---	92.5	---	---	0.0	-	-
Pride 5525 (2X)	30.0	25	27	96.3	109	108	0.0	0	0
Payco SX799 (2X)	30.3	---	---	95.0	---	---	0.0	-	-
Dairyland 1007 (2X)	30.4	---	---	103.2	---	---	0.0	-	-
Golden Harvest H-2450(2X)	30.5	26	27	96.1	118	118	4.6	2	2
Golden Harvest H-2500(2X)	30.6	---	---	107.2	---	---	0.0	-	-
*Migro HP27 (2X)	30.7	---	---	116.3	---	---	0.0	-	-
*Funk G-4430 (2X)	30.9	26	28	117.3	132	136	1.5	1	1
DeKalb XL42a (2X)	31.0	---	---	109.9	---	---	0.0	-	-
Northrup King PX603 (3X)	31.0	---	---	108.2	---	---	0.8	-	-
Migro M-0301 (2X)	31.1	28	29	106.9	127	120	0.8	0	1
Garno S-100 (2X)	31.4	---	---	104.6	---	---	0.0	-	-
Wolverine W174A (2X)	31.5	---	---	91.3	---	---	0.0	-	-
Payco SX990 (2X)	32.2	---	---	91.0	---	---	0.7	-	-
Golden Harvest H-2445(2X)	32.3	26	---	96.5	109	---	0.8	0	-
Average	27.9	24	26	102.4	117	117	1.0	1	1
Range	23.7 to 32.3	21 to 28	22 to 29	83.8 to 126.3	97 to 132	97 to 136	0.0 to 4.6	0 to 2	0 to 6
Least significant difference	1.7	1.1	0.7	10.6	7	5			

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 11	May 4	May 10
Harvested	November 7	October 30	October 17
Soil type	Fox sandy loam	Fox sandy loam	Fox sandy loam
Previous crop	Corn	Corn	Corn
Population	20,200	19,300	20,800
Rows	30"	30"	30"
Fertilizer	112-48-106	126-64-122	112-53-15
Soil test: pH	5.8	6.1	6.1
P	92 (high)	95 (high)	112 (very high)
K	328 (very high)	264 (high)	227 (high)

Farm Cooperator: Richard Van Vranken, Climax

County Extension Agent: Richard Bailey, Kalamazoo

Table 5

SOUTHERN MICHIGAN
Cass County Trial - Irrigated Upland Soil
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Garno S-90 (2X)	20.6	---	---	116.6	---	---	8.3	-	-
Super Crost 78015 (2X)	20.8	---	---	114.6	---	---	9.8	-	-
Michigan 333-3X (3X)	20.8	19	19	113.7	118	112	6.4	5	9
Trojan T1008 (2X)	21.0	---	---	146.9	---	---	7.5	-	-
Michigan 3102 (2X)	21.0	19	20	139.9	141	138	7.9	5	4
Select 2600 (2X)	21.0	---	---	145.9	---	---	15.9	-	-
Funk G-4315 (MSX)	21.2	---	---	146.8	---	---	18.9	-	-
Cargill 838 (2X)	21.5	20	22	106.0	122	127	13.7	7	5
Renk RK146 (3X)	21.5	---	---	125.0	---	---	10.9	-	-
Bayless SX424 (2X)	21.6	---	---	154.7	---	---	5.2	-	-
Migro M-0105 (2X)	21.6	20	21	129.6	145	135	11.3	9	11
Renk RK15 (2X)	21.6	20	21	138.9	145	147	10.7	8	6
Michigan 407-2X (2X)	21.7	20	21	141.9	145	145	9.4	7	5
Funk G-4224 (MSX)	22.0	---	---	123.5	---	---	11.6	-	-
Renk 66E (2X)	22.0	---	---	144.6	---	---	9.6	-	-
Blaney B-AA-WX (2X)	22.1	21	---	144.5	132	---	12.1	9	-
Dairyland 1007B (MSX)	22.1	---	---	148.8	---	---	5.3	-	-
Michigan 3953 (3X)	22.1	20	21	131.9	140	140	10.5	7	5
Hyland HL-2450 (2X)	22.1	---	---	120.0	---	---	17.5	-	-
DeKalb XL25a (2X)	22.2	---	---	130.3	---	---	3.7	-	-
Rupp XR1595E (2X)	22.3	---	---	124.0	---	---	9.0	-	-
Bayless SX434M (2X)	22.3	21	23	151.1	154	157	6.5	7	6
O's Gold SX1107 (2X)	22.3	21	---	138.3	156	---	8.3	5	-
Pride 4488 (2X)	22.3	21	---	153.8	170	---	1.7	1	-
Hyland HL-2458 (2X)	22.5	---	---	150.0	---	---	6.3	-	-
*Migro HP27 (2X)	22.5	---	---	160.3	---	---	6.3	-	-
Lowe LSX-360 (2X)	22.5	---	---	125.6	---	---	13.6	-	-
Pioneer 3780 (2X)	22.5	21	22	152.1	167	163	12.7	10	9
Great Lakes GL452 (2X)	22.6	---	---	122.0	---	---	12.8	-	-
Hyland HL-2784 (2X)	22.6	---	---	149.7	---	---	6.3	-	-
Super Crost 1950 (2X)	22.6	20	---	125.2	140	---	8.8	6	-
Michigan 4122 (2X)	22.6	21	22	144.3	151	155	10.2	8	7
Northrup King PX37 (2X)	22.6	21	---	146.2	161	---	8.3	5	-
Blaney B606 (2X)	22.6	21	23	154.0	156	151	2.3	7	6
Trojan T1058 (2X)	22.7	---	---	129.3	---	---	14.5	-	-
*Gutwein 46 (2X)	22.7	21	22	167.7	167	159	7.3	5	4
Renk RK40 (2X)	22.7	---	---	130.3	---	---	13.8	-	-
Amcorn 7300 (2X)	22.7	21	22	142.0	158	148	17.2	10	13
Rupp XR1625E (2X)	22.7	---	---	134.3	---	---	9.6	-	-
Michigan 5802 (2X)	22.7	21	23	135.4	153	157	15.5	9	7
Dairyland 1008X (2X)	22.7	---	---	129.4	---	---	8.5	-	-
*Garno S-100 (2X)	22.8	21	---	158.9	162	---	7.0	4	-
Amcorn 7480 (2X)	22.8	21	23	148.3	154	150	5.7	3	4
*Renk RK66 (2X)	22.8	21	23	166.4	157	152	6.5	7	4
Migro M-2018X (2X)	22.8	21	22	120.2	144	145	8.8	6	5
*Rupp XR1625 (2X)	22.9	---	---	163.0	---	---	5.5	-	-
DeKalb XL23 (2X)	22.9	---	---	136.2	---	---	3.7	-	-
Migro HP16 (2X)	23.0	---	---	103.4	---	---	25.2	-	-
Super Crost 79022 (2X)	23.0	---	---	153.3	---	---	9.5	-	-
Michigan 5912 (2X)	23.0	21	23	142.8	158	163	9.8	5	4
*Voris X441 (2X)	23.0	---	---	159.3	---	---	5.0	-	-
*Pride R549 (3X)	23.0	---	---	159.2	---	---	8.5	-	-
*Great Lakes GL552 (2X)	23.0	---	---	167.0	---	---	4.7	-	-
*Super Crost 2350 (2X)	23.1	21	22	159.4	167	163	8.7	6	6
P-A-G SX189 (2X)	23.2	21	---	130.1	141	---	12.4	7	-
Prairie Stream SX33 (2X)	23.2	22	22	156.0	155	151	5.8	4	3
Cargill 872 (2X)	23.2	---	---	148.4	---	---	2.9	-	-
Parker 50A (2X)	23.3	21	---	142.3	149	---	8.9	4	-
Select 3100 (2X)	23.3	---	---	138.0	---	---	9.8	-	-
Super Crost 2880 (2X)	23.3	21	---	139.6	146	---	9.1	7	-
Migro HP23R (2X)	23.3	---	---	120.3	---	---	1.3	-	-
*P-A-G Exp. 263048 (2X)	23.3	---	---	141.6	---	---	12.3	-	-
Asgrow RX616 (2X)	23.4	---	---	129.3	---	---	22.0	-	-
Northrup King PX59 (2X)	23.4	---	---	148.1	---	---	8.7	-	-
Golden Harvest Exp. 517 (2X)	23.4	---	---	137.5	---	---	7.4	-	-
Prairie Stream SX44 (2X)	23.4	22	24	140.4	163	158	8.5	6	5
Voris 2422 (2X)	23.4	22	23	147.3	164	165	4.8	3	5
*Michigan 5922 (2X)	23.4	22	---	166.1	178	---	4.3	3	-
Acco UC3002 (2X)	23.5	21	---	145.5	155	---	12.3	6	-
Blaney B601-wx (2X)	23.5	22	---	126.2	136	---	12.1	8	-
McCurdy MSX60 (2X)	23.6	23	24	149.4	167	168	19.4	11	8
*Pioneer 3541 (2X)	23.6	21	---	159.5	174	---	7.9	5	-
*Northrup King PX49 (2X)	23.6	22	---	158.6	172	---	7.0	4	-
*Lowe LSX217 (2X)	23.7	---	---	166.1	---	---	2.2	-	-
Lowe LSX100 (2X)	23.7	---	---	143.4	---	---	21.2	-	-

(continued)

Table 5 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2	3	1979	2	3	1979	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Super Crost 3585 (Sp.)	23.7	---	---	134.0	---	---	10.9	-	-
*McCurdy 5596 (2X)	23.9	---	---	175.5	---	---	3.6	-	-
Voris 2472 (2X)	23.9	---	---	145.3	---	---	10.2	-	-
McCurdy 6475	23.9	---	---	133.9	---	---	11.5	-	-
Cargill 892 (2X)	23.9	---	---	149.1	---	---	4.3	-	-
Acco UC3301A (2X)	23.9	22	23	139.1	154	153	8.1	6	5
Parker 36A (2X)	24.0	21	---	145.4	152	---	7.0	6	-
Golden Harvest H-2448 (2X)	24.1	22	---	150.5	169	---	3.2	2	-
P-A-G SX249 (2X)	24.1	22	---	151.2	164	---	4.6	3	-
Super Crost 2470 (2X)	24.1	---	---	130.2	---	---	4.4	-	-
Asgrow RX544 (MSX)	24.1	---	---	111.5	---	---	4.6	-	-
Select 4700 (2X)	24.2	---	---	137.8	---	---	6.3	-	-
Farm Bureau FB3440 (2X)	24.4	---	---	144.8	---	---	3.8	-	-
McCurdy MSX46 (2X)	24.4	21	23	148.3	157	155	6.7	4	3
Migro HP20 (2X)	24.5	---	---	126.1	---	---	4.3	-	-
Super Crost 5440 (2X)	24.5	23	---	136.0	158	---	15.8	8	-
Migro M-0301 (2X)	24.5	22	24	140.8	161	164	14.6	8	5
*P-A-G SX277 (2X)	24.6	---	---	169.4	---	---	4.3	-	-
Cargill 924 (2X)	24.8	---	---	153.5	---	---	0.7	-	-
*Pioneer 3535 (2X)	24.8	23	24	160.1	167	171	0.7	0	0
Super Crost 4350 (2X)	24.9	---	---	156.2	---	---	2.3	-	-
*O's Gold SX5500A (2X)	24.9	23	25	162.1	176	177	5.1	3	2
Renk RK77 (2X)	25.0	---	---	150.1	---	---	4.2	-	-
*DeKalb XL54 (2X)	25.0	22	---	158.9	155	---	5.1	7	-
Funk G-4507 (2X)	25.1	23	25	140.9	162	160	2.1	1	1
Gutwein 2340 (2X)	25.1	23	---	146.0	147	---	2.2	3	-
Blaney B805 (2X)	25.2	23	25	153.6	166	171	5.7	3	2
Funk G-4323 (MSX)	25.2	23	---	153.5	162	---	1.6	1	-
Pride 5525 (2X)	25.3	22	23	145.5	150	145	4.3	3	2
Migro M-2022X (2X)	25.3	22	23	143.3	162	163	8.6	5	5
Lowe LSX222 (2X)	25.4	---	---	152.0	---	---	5.4	-	-
*Golden Harvest H-2500 (2X)	25.6	23	25	166.6	177	176	0.7	1	0
*Bayless SX637 (2X)	25.6	---	---	160.3	---	---	7.4	-	-
*Trojan TXS115A (2X)	25.7	24	---	162.7	178	---	2.8	2	-
Gutwein 62 (2X)	25.8	23	25	156.0	171	170	2.2	1	3
*P-A-G SX397 (2X)	25.8	23	24	158.3	160	160	5.1	4	5
Voris 2532 (2X)	25.8	24	25	149.3	159	157	2.2	1	1
DeKalb XL42a (2X)	26.2	---	---	130.2	---	---	9.8	-	-
DeKalb XL55a (2X)	26.8	---	---	150.7	---	---	7.5	-	-
Acco UC4201 (2X)	27.5	---	---	114.1	---	---	31.7	-	-
Northrup King PX74 (2X)	27.9	25	---	145.9	169	---	4.6	2	-
Average	23.4	21	23	143.4	157	154	8.0	5	5
Range	20.6	19	19	106.0	118	112	0.7	0	0
	to	to	to	to	to	to	to	to	to
	27.9	25	26	175.5	178	177	31.7	11	14
Least significant difference	1.2	0.7	0.7	13.6	7	5			

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 18	May 3	May 9
Harvested	November 8	November 1	October 19
Soil type	Kalamazoo sandy loam	Kalamazoo sandy loam	Kalamazoo sandy loam
Previous crop	Corn	Corn	Corn
Population	23,100	23,300	22,500
Rows	28"	28"	28"
Fertilizer	277-84-108	292-84-108, manure	315-54-138, manure
Irrigation	7 inches	10 inches	8 inches
Soil test:			
pH	6.2	6.8	6.8
P	243 (very high)	179 (very high)	103 (very high)
K	411 (very high)	480 (very high)	256 (high)

Farm Cooperator: Dave Cripe, Cassopolis

County Extension Agent: G. Warren Hothem, Cassopolis

Table 6

SOUTHERN MICHIGAN
Cass County Trial - Muck Soil
One, Two, Three Year Averages -

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2	3	1979	2	3	1979	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Funk G-4141A (MSX)	22.6	---	---	68.1	---	---	11.1	-	-
Michigan 333-3X (3X)	22.7	20	21	79.8	89	92	5.5	7	5
Northrup King PX24 (2X)	22.7	---	---	81.4	---	---	8.8	-	-
Michigan 3102 (2X)	22.8	21	22	78.8	109	112	6.4	3	3
Migro M-0101 (2X)	22.8	21	23	76.8	101	111	10.6	6	5
DeKalb XL15 (2X)	22.8	---	---	76.6	---	---	8.0	-	-
Payco SX844 (2X)	22.9	23	---	87.7	108	---	7.3	5	-
O's Gold SX940 (2X)	22.9	---	---	69.8	---	---	6.7	-	-
DeKalb XL11 (2X)	23.0	---	---	78.6	---	---	9.6	-	-
Blaney EX7305 (2X)	23.0	22	24	72.4	89	102	4.5	5	6
Michigan 3953 (3X)	23.0	22	22	80.4	103	109	7.0	6	5
Golden Harvest H-2340 (2X)	23.1	22	24	73.2	96	101	3.9	4	4
Migro HP 23R (2X)	23.1	---	---	85.0	---	---	0.0	-	-
*Funk G-4323 (MSX)	23.2	---	---	93.7	---	---	2.1	-	-
Pioneer 3901 (2X)	23.2	22	24	87.0	99	108	4.8	2	2
Northrup King PX32 (2X)	23.3	22	23	69.7	101	110	1.5	3	3
McCurdy 77-74 (2X)	23.3	---	---	73.9	---	---	0.0	-	-
P-A-G Exp. 263048 (2X)	23.2	---	---	79.9	---	---	4.8	-	-
Voris 2372 (2X)	23.4	23	25	83.4	103	113	9.1	8	7
Funk G-4224 (MSX)	23.5	23	---	76.9	99	---	7.7	4	-
Migro HP20 (2X)	23.5	---	---	67.9	---	---	3.7	-	-
Anderson SSE (2X)	23.5	23	25	70.6	91	106	2.0	4	4
Trojan T1008 (2X)	23.5	23	---	90.7	102	---	4.2	3	-
Michigan 407-2X (2X)	23.6	23	24	89.7	110	118	7.9	5	4
Acco UC2851 (2X)	23.6	24	---	89.3	112	---	4.3	4	-
Migro HP16 (2X)	23.7	---	---	79.0	---	---	8.3	-	-
Funk G-4272 (3X)	23.8	23	24	75.5	107	111	5.1	4	3
Pride 4488 (2X)	23.8	23	---	88.7	96	---	2.9	3	-
Voris X441 (2X)	23.9	---	---	83.0	---	---	0.7	-	-
Cargill 838 (2X)	23.9	23	24	81.6	89	96	15.7	10	7
McCurdy MSX37 (2X)	23.9	---	---	69.3	---	---	4.2	-	-
*Pioneer 3780 (2X)	23.9	23	25	107.4	120	129	8.2	4	5
*Pioneer 3780 (2X)	23.9	23	24	92.3	109	119	7.8	5	5
Parker 28 (2X)	24.0	23	---	79.5	102	---	12.2	6	-
*Super Crost 2350 (2X)	24.0	23	25	94.9	123	126	6.2	3	3
*Anderson SSM (2X)	24.1	24	27	94.9	104	108	6.9	4	3
Gold Tag 2060 (2X)	24.1	23	---	70.7	103	---	1.6	3	-
DeKalb XL32A (2X)	24.1	---	---	85.0	---	---	1.4	-	-
*Northrup King PX37 (2X)	24.1	24	---	97.3	118	---	2.9	2	-
*Funk G-4323 (MSX)	24.2	23	---	93.7	107	---	2.1	3	-
Michigan 5802 (2X)	24.2	24	25	91.9	109	121	5.1	3	4
Pride 5525 (2X)	24.2	24	25	80.6	104	119	1.4	1	1
Trojan T1058 (2X)	24.2	---	---	76.0	---	---	3.4	-	-
Voris 2381 (2X)	24.3	23	---	69.7	99	---	6.5	3	-
Migro M-0105 (2X)	24.3	23	24	79.9	94	103	4.2	4	4
Anderson SSX (2X)	24.4	---	---	81.3	---	---	3.6	-	-
Payco SX799 (2X)	24.4	---	---	66.6	---	---	1.5	-	-
Acco UC2951 (2X)	24.4	---	---	80.0	---	---	2.1	-	-
*Great Lakes GL-552 (2X)	24.5	---	---	94.8	---	---	0.0	-	-
P-A-G SX189 (2X)	24.5	23	---	71.7	87	---	8.3	7	-
Migro M-2022X (2X)	24.6	24	26	78.2	104	117	1.5	1	2
*Northrup King PX49 (2X)	24.7	24	---	94.2	124	---	1.4	2	-
*Michigan 5912 (2X)	24.7	24	26	97.6	122	128	1.6	1	1
Migro M-2018X (2X)	24.7	24	25	84.6	97	111	1.4	2	2
Blaney B606 (2X)	24.7	24	25	81.8	96	109	8.4	5	6
*Pioneer 3535 (2X)	24.9	25	27	101.2	123	130	4.8	3	2
*Funk G-4408 (2X)	24.9	24	25	108.0	122	130	5.8	3	3
P-A-G SX249 (2X)	25.0	25	---	86.8	98	---	5.6	4	-
Cargill 872 (2X)	25.2	---	---	74.7	---	---	0.7	-	-
Payco SX775 (2X)	25.4	24	26	90.1	113	119	3.7	4	4
*Michigan 5922 (2X)	25.4	---	---	99.3	---	---	0.7	-	-
DeKalb XL25A (2X)	25.5	---	---	79.8	---	---	0.0	-	-
Anderson AX-4 (Sp.)	25.9	25	27	71.6	90	104	6.3	4	3
*Pioneer 3541 (2X)	25.9	26	---	98.9	125	---	0.0	0	-
Cargill 892 (2X)	26.0	---	---	87.1	---	---	4.2	-	-
DeKalb XL23 (2X)	26.0	---	---	85.3	---	---	4.8	-	-
Voris 2422 (2X)	26.2	---	---	81.5	---	---	10.5	-	-
*P-A-G SX397 (2X)	26.3	25	---	103.7	118	---	5.6	3	-
Migro HP27 (2X)	26.4	---	---	82.5	---	---	0.0	-	-
Acco UC3301A (2X)	26.5	---	---	85.6	---	---	10.2	-	-
*Golden Harvest H-2450 (2X)	26.8	25	27	93.8	109	112	1.4	2	2
P-A-G SX277 (2X)	27.0	---	---	84.1	---	---	2.0	-	-
McCurdy 77-49 (2X)	27.7	---	---	78.4	---	---	2.3	-	-
*Anderson SSL (2X)	28.2	---	---	99.8	---	---	2.7	-	-
Gold Tag 3020 (2X)	28.4	---	---	87.2	---	---	0.7	-	-

Table 6 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	2		3	2		3	2		3
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
Cargill 924 (2X)	28.4	---	---	74.4	---	---	1.4	-	-
Payco SX990 (2X)	29.1	---	---	76.8	---	---	0.0	-	-
Average	24.6	23	25	83.3	105	113	4.6	4	4
Range	22.6	20	21	66.6	87	92	0.0	0	1
	to	to	to	to	to	to	to	to	to
	29.1	26	27	108.0	125	130	15.7	10	7
Least significant difference	1.3	0.8	0.7	9.3	6	5			

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 25	May 20	May 17
Harvested	November 8	November 1	October 19
Soil type	Carlisle muck	Carlisle muck	Carlisle muck
Previous crop	Corn	Corn	Corn
Population	21,000	21,400	21,300
Rows	30"	30"	30"
Fertilizer	83-32-76	82-48-74	88-32-16
Soil test: pH	5.5	5.6	5.4
P	172 (very high)	97 (high)	152 (very high)
K	434 (very high)	688 (very high)	645 (very high)

Farm Cooperators: Oliver, Russell, and Roger Anderson, Cassopolis

County Extension Agent: G. Wayne Hothem, Cassopolis

Table 7 SOUTH CENTRAL MICHIGAN Zone 2
Kent County Trial
One, Two, Three Year Averages - 1979, 1978, 1977

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	2		3	2		3	2		3
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
Michigan 333-3X (3X)	22.1	21	21	93.7	106	107	1.5	1	1
Select 1400 (MSX)	22.2	---	---	86.6	---	---	6.5	-	-
Michigan 3102 (2X)	22.6	22	22	87.3	117	117	0.6	0	0
DeKalb XL13 (2X)	23.2	---	---	90.0	---	---	4.9	-	-
Dairyland 1095 (2X)	23.3	---	---	104.6	---	---	3.7	-	-
Garno S-90 (2X)	23.5	---	---	104.6	---	---	1.6	-	-
Hyland HL-2430 (2X)	23.6	---	---	78.0	---	---	0.7	-	-
Great Lakes GL452 (2X)	23.7	---	---	92.9	---	---	2.9	-	-
Dairyland 1099 (2X)	23.7	23	---	94.3	118	---	0.7	0	-
DeKalb XL15 (2X)	24.0	---	---	85.6	---	---	0.7	-	-
Dairyland 1002 (2X)	24.1	23	23	105.7	130	121	1.5	1	3
Northrup King PX32 (2X)	24.2	23	24	85.9	122	127	4.4	2	2
Acco UC1905 (2X)	24.2	---	---	107.7	---	---	1.6	-	-
Super Crost 78015 (2X)	24.5	---	---	86.6	---	---	1.5	-	-
Hyland HL-2440 (2X)	24.5	---	---	78.3	---	---	7.2	-	-
P-A-G SX177 (2X)	24.6	---	---	79.1	---	---	4.3	-	-
Migro HP16 (2X)	24.6	---	---	78.5	---	---	2.3	-	-
Dairyland 1005 (2X)	24.6	23	24	99.8	112	119	0.0	0	0
Michigan 3953 (2X)	24.7	23	23	99.3	117	116	3.1	2	2
Blaney EX7305 (2X)	24.7	23	23	98.8	125	119	8.6	4	3
Seneca 321 (3X)	24.8	23	---	80.2	104	---	4.7	2	-
Super Crost 1950 (2X)	24.8	23	---	96.3	117	---	2.3	1	-
Migro HP20 (2X)	24.9	---	---	97.4	---	---	4.3	-	-
Michigan 407-2X (2X)	24.9	23	24	106.6	129	128	4.1	2	2
Amcorn 4100 (2X)	25.0	24	24	81.9	117	123	3.1	2	2
*Hyland HL-2442 (2X)	25.0	---	---	119.6	---	---	1.4	-	-
Wolverine W166 (2X)	25.0	24	24	100.0	128	124	2.2	1	2
Renk RK15 (2X)	25.0	23	23	95.8	114	108	3.1	2	2
Anderson SSE (2X)	25.0	23	23	91.7	117	112	1.4	1	0
Pioneer 3901 (2X)	25.0	23	23	104.6	120	122	0.0	0	0
P-A-G SX189 (2X)	25.0	---	---	82.6	---	---	5.8	-	-
Cargill 863 (2X)	25.1	24	24	101.0	121	127	7.6	4	3
*Voriss 2372 (2X)	25.1	24	24	119.2	140	137	3.8	2	2
Seneca S1341 (MSX)	25.1	---	---	83.3	---	---	0.7	-	-
Voriss 2381 (2X)	25.2	24	---	87.0	121	---	4.5	2	-

(continued)

Table 7 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	2		3	2		3	2		3
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
*Pioneer 3780 (2X)	25.2	24	25	121.3	148	146	2.7	1	1
Migro M-0105 (2X)	25.2	24	23	98.1	127	123	8.3	4	3
*Michigan 4122 (2X)	25.3	24	24	112.1	135	139	0.8	0	1
Amcorn 4010 (2X)	25.4	---	---	85.8	---	---	2.3	-	-
*Jacques JX122A (2X)	25.5	24	25	116.5	134	128	0.7	0	0
Amcorn 7300 (2X)	25.5	24	25	87.1	127	127	10.4	5	6
Funk G-4272 (3X)	25.5	24	24	101.5	128	131	2.2	1	1
Renk RK40 (2X)	25.5	---	---	101.3	---	---	0.7	-	-
*Select 3100 (2X)	25.5	---	---	117.5	---	---	1.4	-	-
Renk RK146 (3X)	25.7	---	---	103.9	---	---	1.6	-	-
*Northrup King PX49 (2X)	25.7	24	---	109.6	145	---	0.7	0	-
Michigan 5802 (2X)	25.7	24	25	102.4	138	138	3.1	2	2
Gutwein 2250 (2X)	25.8	25	---	99.8	135	---	2.9	1	-
*Seneca S2361 (2X)	25.8	---	---	109.8	---	---	3.2	-	-
Pickseed 8858 (2X)	25.8	---	---	83.4	---	---	2.4	-	-
*Golden Harvest H-2448(2X)	25.9	---	---	109.5	---	---	1.4	-	-
*Migro M-2022X (2X)	26.1	24	25	112.3	142	139	1.6	1	1
Golden Harvest H-2445 (MSX)	26.1	24	---	105.0	122	---	0.0	0	-
Super Crost 2350 (2X)	26.2	24	24	94.0	134	137	2.2	1	1
Super Crost 2880 (2X)	26.2	25	---	98.5	128	---	4.1	2	-
*Great Lakes GL552 (2X)	26.2	---	---	110.3	---	---	0.7	-	-
Acco UC2951 (2X)	26.2	24	---	84.4	119	---	3.8	2	-
Renk RK66E (2X)	26.3	---	---	86.5	---	---	0.0	-	-
*Migro HP27 (2X)	26.3	---	---	110.2	---	---	0.7	-	-
Michigan 5912 (2X)	26.3	25	25	107.7	135	141	2.5	1	1
DeKalb XL23 (2X)	26.3	---	---	99.0	---	---	0.7	-	-
Dairyland 1007B (MSX)	26.3	---	---	100.4	---	---	0.7	-	-
Pride 4488 (2X)	26.4	---	---	100.6	---	---	0.8	-	-
*Funk G-4408 (2X)	26.5	25	25	119.8	145	142	2.8	1	1
Select 3000 (2X)	26.5	---	---	90.8	---	---	2.1	-	-
Acco UC3002 (2X)	26.6	---	---	88.2	---	---	3.7	-	-
Migro HP23R (2X)	26.7	---	---	100.7	---	---	0.0	-	-
Migro M-2018X (2X)	26.7	25	25	81.3	115	118	0.7	0	0
Anderson AX4 (Sp.)	26.8	25	25	84.6	111	107	3.7	2	1
Amcorn 7480 (2X)	26.9	25	25	93.6	113	122	0.0	0	0
O's Gold SX1100 (2X)	27.0	25	25	97.8	121	125	3.4	2	2
Anderson SSX (2X)	27.0	---	---	107.0	---	---	0.0	-	-
Blaney B-AA-wx (2X)	27.0	25	---	80.7	118	---	3.9	2	-
Blaney B606E (2X)	27.1	25	25	93.8	120	124	0.7	0	1
Garno S-100 (2X)	27.1	---	---	102.6	---	---	2.4	-	-
Michigan 5922 (2X)	27.2	---	---	96.0	---	---	0.0	-	-
*Gutwein 2340 (2X)	27.2	27	---	109.8	128	---	1.5	1	-
*Gutwein 22 (2X)	27.2	25	25	123.5	145	144	1.4	1	1
Customaize CFS1450 (2X)	27.2	---	---	96.0	---	---	0.0	-	-
Northrup King PX37 (2X)	27.3	25	---	87.7	119	---	0.8	0	-
Renk RK66 (2X)	27.3	---	---	100.0	---	---	0.7	-	-
Funk G-4444 (2X)	27.3	25	26	102.2	133	134	0.0	0	1
Pioneer 3518 (MSX)	27.4	---	---	100.7	---	---	0.7	-	-
Funk G-4323 (MSX)	27.4	---	---	87.7	---	---	0.7	-	-
Voriss 2422 (2X)	27.6	26	---	86.2	130	---	0.0	0	-
DeKalb XL42a (2X)	27.6	---	---	91.6	---	---	1.4	-	-
Customaize CFS-WX128(2X)	27.7	26	---	102.4	128	---	4.8	2	-
*Pioneer 3541 (2X)	27.7	27	---	110.0	144	---	0.8	0	-
*Super Crost 2470 (2X)	27.7	25	26	122.4	132	130	1.4	1	0
Gutwein 468 (2X)	27.8	---	---	88.4	---	---	3.0	-	-
*Customaize CFS-WX220(2X)	27.9	---	---	108.6	---	---	0.8	-	-
Pioneer 3535 (2X)	27.9	27	26	92.5	128	132	0.7	0	0
Funk G-4430 (2X)	27.9	---	---	93.9	---	---	0.0	-	-
*Northrup King PX59 (2X)	27.9	---	---	108.6	---	---	0.7	-	-
Average	25.8	24	24	97.6	126	127	2.2	1	1
Range	22.1	21	21	78.0	104	107	0.0	0	0
	to	to	to	to	to	to	to	to	to
	27.9	27	26	123.5	148	146	10.4	5	6
Least significant difference	1.3	0.8	0.6	10.9	7	5			

(continued)

Table 7 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
*Significantly better than average yield in 1979.									
	1979			1978			1977		
Planted	May 19			May 8			May 3		
Harvested	November 9			November 2			October 20		
Soil type	Belville loam			Belville loam			Belville loam		
Previous crop	Corn			Corn			Corn		
Population	21,500			21,700			22,100		
Rows	30"			30"			30"		
Fertilizer	62-62-90			124-52-60			112-57-60		
Soil test:	pH			6.1			6.0		
	P	148 (very high)		100 (high)			86 (high)		
	K	396 (very high)		356 (very high)			258 (high)		

Farm Cooperator: Gerald Kayser, Caledonia

County Extension Agent: Robert Knisely, Grand Rapids

Table 8 SOUTH CENTRAL MICHIGAN Zone 2
Ottawa County Trial
One, Two, Three Year Averages - 1979, 1978, 1977

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
Michigan 333-3X (3X)	23.3	24	23	95.6	104	112	3.0	2	1
Farm Bureau FBS300 (2X)	24.2	---	---	100.9	---	---	2.5	-	-
Michigan 3102 (2X)	24.4	23	24	98.3	120	125	1.8	1	1
Migro M-0101 (2X)	24.5	23	24	85.8	107	116	2.2	1	1
Golden Harvest H-2340 (2X)	24.6	25	26	107.1	110	109	0.0	0	0
Funk G-4252 (3X)	24.8	24	25	90.2	108	114	0.7	0	0
Super Crost 1692 (2X)	24.9	---	---	88.4	---	---	0.7	-	-
DeKalb XL13 (2X)	24.9	---	---	87.8	---	---	0.8	-	-
Great Lakes GL-452 (2X)	25.0	---	---	92.6	---	---	2.9	-	-
Dairyland 1002 (2X)	25.0	---	---	83.5	---	---	0.7	-	-
Select 2600 (2X)	25.0	---	---	109.1	---	---	0.0	-	-
Select 2200 (MSX)	25.0	---	---	91.4	---	---	0.0	-	-
Wolverine W126 (2X)	25.1	---	---	101.9	---	---	0.7	-	-
Garno S-90 (2X)	25.2	---	---	114.5	---	---	0.0	-	-
O's Gold SX1005 (2X)	25.2	---	---	104.6	---	---	2.3	-	-
Dairyland 1099 (2X)	25.3	---	---	97.6	---	---	0.7	-	-
*Pioneer 3901 (2X)	25.5	24	25	125.9	130	130	0.0	0	1
Migro HP20 (2X)	25.5	---	---	101.8	---	---	0.0	-	-
Golden Harvest H-2373(2X)	25.6	25	---	85.9	102	---	4.2	2	-
Michigan 3953 (3X)	25.6	25	25	91.1	106	115	1.4	2	2
DeKalb XL15 (2X)	25.7	---	---	111.4	---	---	0.7	-	-
Migro HP16 (2X)	25.8	---	---	114.9	---	---	0.7	-	-
Super Crost 1950 (2X)	25.8	25	---	110.0	115	---	0.7	1	-
Migro M-0105 (2X)	25.9	25	25	110.6	119	118	0.8	1	1
Michigan 407-2X (2X)	26.0	26	26	114.7	132	134	2.7	1	1
Northrup King PX49 (2X)	26.1	---	---	95.5	---	---	1.5	-	-
Amcorn 4010 (2X)	26.1	---	---	93.0	---	---	1.5	-	-
P-A-G SX189 (2X)	26.3	---	---	89.6	---	---	2.3	-	-
Blaney B506 (2X)	26.3	26	27	95.8	127	132	0.7	1	0
Blaney EX7305 (2X)	26.3	26	26	98.5	128	124	0.0	0	0
*Pride 5525 (2X)	26.5	26	---	116.2	128	---	0.7	0	-
*Pioneer 3780 (2X)	26.6	26	26	117.6	134	138	0.7	0	0
Michigan 4122 (2X)	26.6	25	26	113.7	125	129	1.5	1	1
Select 3100 (2X)	26.7	---	---	113.7	---	---	0.0	-	-
*McCurdy MSX37 (2X)	26.8	---	---	116.2	---	---	2.2	-	-
Acco UC2851 (2X)	26.9	---	---	90.6	---	---	0.7	-	-
O's Gold SX1101 (2X)	26.9	---	---	113.6	---	---	0.0	-	-
Amcorn 4100 (2X)	27.0	26	26	81.6	111	113	0.0	0	1
Northrup King PX32 (2X)	27.0	---	---	114.8	---	---	0.0	-	-
Funk G-4272 (3X)	27.0	26	26	110.7	132	129	1.5	1	1
DeKalb XL23 (2X)	27.1	---	---	108.7	---	---	0.0	-	-
Amcorn 7300 (2X)	27.2	26	27	103.9	112	116	1.4	1	2
*Pride 4488 (2X)	27.5	27	---	121.0	129	---	0.7	0	-
*Michigan 5802 (2X)	27.6	27	28	116.3	134	136	0.0	1	1
*DeKalb XL42 (2X)	27.7	27	28	117.8	133	132	0.0	0	0

(continued)

Table 8 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
Funk G-4444 (2X)	28.0	27	28	113.0	133	136	0.7	1	1
*Super Crost 2350 (2X)	28.1	27	28	116.2	135	136	2.2	2	1
Super Crost 2470 (2X)	28.1	27	28	114.2	132	131	0.0	0	0
*Dairyland 1007B (MSX)	28.2	---	---	124.5	---	---	0.0	-	-
Michigan 5912 (2X)	28.3	27	29	108.6	134	140	0.7	0	1
McCurdy MSX46 (2X)	28.2	27	28	112.5	133	137	0.7	0	0
Dairyland 1008X (2X)	28.2	---	---	111.7	---	---	1.5	-	-
Golden Harvest H-2445 (MSX)	28.3	28	---	107.6	135	---	0.0	1	-
*Customize CFS 1450 (2X)	28.4	---	---	124.0	---	---	0.7	-	-
Super Crost 2880 (2X)	28.4	28	---	102.1	124	---	1.4	1	-
Michigan 5922 (2X)	28.4	---	---	115.2	---	---	0.0	-	-
*McCurdy MSX42 (2X)	28.5	28	29	116.5	133	126	0.0	0	0
Migro M-2018X (2X)	28.6	27	28	102.9	118	127	0.0	0	0
*Migro HP27 (2X)	28.8	---	---	122.2	---	---	0.0	-	-
Migro M-2022X (2X)	28.8	27	28	105.5	126	132	1.4	1	0
Great Lakes GL-552 (2X)	29.1	---	---	110.5	---	---	1.4	-	-
Migro M-0301 (2X)	29.1	28	29	111.5	131	136	0.7	0	0
Acco UC3002 (2X)	29.2	28	29	113.4	128	132	0.0	0	0
Migro HP23R (2X)	29.3	---	---	89.5	---	---	0.0	-	-
Trojan T1108 (MSX)	29.3	---	---	99.0	---	---	0.0	-	-
Garno S-100 (2X)	29.6	---	---	110.0	---	---	1.4	-	-
Amcorn 7480 (2X)	30.1	28	28	107.1	126	129	0.0	0	0
Customize CFS-WX128 (2X)	30.1	---	---	107.9	---	---	0.8	-	-
Pioneer 3535 (2X)	30.2	30	29	103.7	114	126	0.0	0	0
Funk G-4323 (MSX)	30.3	---	---	111.4	---	---	0.0	-	-
McCurdy 77-49 (2X)	30.7	---	---	91.6	---	---	2.1	-	-
*Funk G-4430 (2X)	31.7	---	---	121.7	---	---	0.0	-	-
Average	27.4	26	27	106.0	124	127	0.8	0.6	0.5
Range	23.3	23	24	81.6	102	109	0.0	0	0
	to	to	to	to	to	to	to	to	to
	31.7	30	29	125.9	135	140	4.2	2	2
Least significant difference	1.5	0.9	0.7	9.4	7	5			

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 21	May 19	May 11
Harvested	November 12	November 3	October 21
Soil type	Gladwin and Iosco sandy loam	Gladwin and Iosco sandy loam	Gladwin and Iosco sandy loam
Previous crop	Corn	Corn	Corn
Population	21,100	20,800	19,900
Rows	30"	30"	30"
Fertilizer	106-24-24	109-36-156	106-24-24
Soil test:	pH	5.7	5.4
	P	197 (very high)	102 (very high)
	K	316 (very high)	236 (high)
			133 (low)

Farm Cooperator: Gerald Geurink, Allendale

County Extension Director: Lawrence Stebbins, Grand Haven

Table 9 SOUTH CENTRAL MICHIGAN Zone 2
Ingham County Trial - Grain
One, Two, Three Year Averages - 1979, 1978, 1977

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
Hyland HL-2219 (2X)	23.3	---	---	79.7	---	---	3.8	-	-
Hyland HL-2217 (2X)	23.3	---	---	86.7	---	---	2.9	-	-
Hyland HL-2216 (2X)	23.6	---	---	79.3	---	---	5.4	-	-
Warwick W901 (2X)	24.3	---	---	79.5	---	---	5.5	-	-
Golden Harvest H-2239 (MSX)	24.6	---	---	79.2	---	---	4.3	-	-

(continued)

Table 9 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Michigan 333-3X (3X)	24.7	22	22	94.5	97	102	0.8	0	1
Garno S-90 (2X)	24.8	24	---	102.4	94	---	1.7	1	-
Hyland HL-2418 (2X)	25.6	---	---	88.4	---	---	3.8	-	-
Super Crost 1580 (2X)	25.8	---	---	79.0	---	---	2.2	-	-
Super Crost 1692 (2X)	25.9	25	24	84.3	89	94	4.6	3	4
Hyland HL-2442 (2X)	26.0	---	---	96.2	---	---	0.9	-	-
Hyland HL-2430 (2X)	26.1	---	---	101.0	---	---	1.6	-	-
Funk G-4141A (MSX)	26.2	---	---	103.2	---	---	0.0	-	-
Migro HP16 (2X)	26.2	---	---	105.2	---	---	0.0	-	-
Hyland HL-2450 (2X)	26.3	---	---	124.5	---	---	2.2	-	-
Warwick TX27 (3X)	26.4	25	24	101.0	100	98	1.6	1	2
Michigan 3102 (2X)	26.4	25	24	117.6	120	122	0.0	0	0
Farm Bureau FBS315 (2X)	26.6	---	---	113.6	---	---	2.3	-	-
P-A-G Exp. 263048 (2X)	26.9	---	---	127.1	---	---	0.7	-	-
Acco UC1905 (2X)	27.0	---	---	109.8	---	---	0.0	-	-
Northrup King PX22 (2X)	27.1	25	---	107.4	116	---	1.5	1	-
Northrup King PX485 (3X)	27.4	---	---	102.4	---	---	0.8	-	-
Migro HP20 (2X)	27.4	---	---	100.7	---	---	0.0	-	-
Golden Harvest H-2370(2X)	27.6	26	25	84.6	87	96	2.1	2	2
Michigan 4122 (2X)	27.6	27	26	126.7	128	133	0.0	0	0
Seneca 321 (3X)	27.7	26	---	101.7	113	---	0.8	0	-
Seneca S1341 (2X)	27.9	---	---	102.9	---	---	0.0	-	-
Blaney B406 (2X)	28.0	26	---	108.3	107	---	0.7	0	-
Great Lakes GL-452 (2X)	28.1	---	---	103.9	---	---	0.0	-	-
Pickseed 8858 (2X)	28.2	---	---	95.1	---	---	0.0	-	-
Funk G-4224 (MSX)	28.3	27	---	128.5	121	---	0.0	1	-
Pioneer 3901 (2X)	28.3	26	25	127.0	131	131	0.0	0	1
McCurdy MSX37 (2X)	28.5	---	---	129.3	---	---	0.8	-	-
Renk R146 (3X)	28.6	---	---	121.3	---	---	0.0	-	-
Super Crost 1950 (2X)	28.6	27	---	98.8	103	---	0.0	1	-
Michigan 407-2X (2X)	28.7	27	26	125.2	125	130	0.0	0	1
Michigan 3953 (3X)	28.7	26	25	117.9	122	126	2.4	1	2
Northrup King PX24 (2X)	28.8	---	---	115.8	---	---	0.0	-	-
Golden Harvest H-2373(2X)	28.8	26	---	100.6	114	---	1.4	1	-
Blaney B605-wx (2X)	28.9	26	25	100.7	103	117	0.0	0	2
Northrup King PX32 (2X)	28.9	28	26	128.0	119	127	0.0	0	1
Dairyland 1099 (2X)	29.0	27	---	100.4	100	---	0.0	0	-
Voris 2381 (2X)	29.0	27	---	112.2	118	---	1.6	1	-
Migro M-2022X (2X)	29.0	28	---	123.4	123	---	0.7	0	-
Wolverine W168 (2X)	29.2	---	---	129.7	---	---	0.0	-	-
Pride R549 (3X)	29.2	---	---	126.9	---	---	0.0	-	-
Voris 2372 (2X)	29.4	27	26	119.8	124	127	1.5	1	2
Renk RK15 (2X)	29.4	27	26	121.4	129	138	0.0	0	1
Dairyland 1005 (2X)	29.5	28	---	109.0	109	---	0.0	0	-
*Michigan 5802 (2X)	29.5	28	27	145.0	135	141	0.0	0	1
*Dairyland 1007B (2X)	29.5	---	---	157.5	---	---	0.0	-	-
Renk RK40 (2X)	29.5	28	---	113.9	113	---	2.2	1	-
Trojan T1058 (2X)	29.8	---	---	115.9	---	---	0.0	-	-
*Lowe LSX222 (2X)	29.8	---	---	138.9	---	---	0.0	-	-
Seneca S2361 (2X)	29.8	---	---	133.0	---	---	0.0	-	-
DeKalb XL25a (2X)	29.9	---	---	121.3	---	---	0.0	-	-
*Gutwein 2250 (2X)	29.9	---	---	136.6	---	---	0.0	-	-
DeKalb XL30a (2X)	29.9	---	---	133.1	---	---	0.0	-	-
*Migro M-2018X (2X)	30.0	29	28	141.7	131	138	0.0	0	0
Asgrow RX2345 (2X)	30.0	29	---	123.8	125	---	1.5	1	-
Renk RK44 (2X)	30.0	28	27	108.6	106	120	0.0	0	1
Pride 4488 (2X)	30.1	29	---	131.1	118	---	0.7	0	-
P-A-G SX189 (2X)	30.1	28	---	108.7	110	---	0.0	0	-
Voris X441 (2X)	30.2	---	---	127.5	---	---	0.7	-	-
Renk 66E (2X)	30.3	29	---	123.5	127	---	0.0	0	-
Amcorn 4100 (2X)	30.4	28	27	110.3	119	123	2.6	1	2
Pride 5525 (2X)	30.4	29	27	132.7	118	127	0.7	0	0
Hyland HL-2440 (2X)	30.4	---	---	107.7	---	---	2.3	-	-
*Pioneer 3780 (2X)	30.4	28	27	142.1	134	140	0.7	0	1
*Northrup King PX49 (2X)	30.4	29	---	146.8	141	---	0.0	0	-
Wolverine W166 (2X)	30.5	28	---	124.4	117	---	1.6	1	-
*Super Crost 2470 (2X)	30.5	29	27	151.0	131	131	1.5	1	1
DeKalb XL23 (2X)	30.5	---	---	135.2	---	---	0.0	-	-
*Renk RK66 (2X)	30.5	29	28	150.2	129	130	0.8	0	0
*Lowe LSX217 (2X)	30.6	---	---	137.7	---	---	1.4	-	-
McKenzie 950 (MSX)	30.6	---	---	121.4	---	---	0.8	-	-
*Anderson SSE (2X)	30.6	29	28	142.4	125	126	1.5	1	1
Michigan 5912 (2X)	30.6	29	28	135.4	136	143	0.0	0	0
Super Crost 2350 (2X)	30.6	28	27	134.9	134	136	0.7	0	1
Anderson AX-4 (Sp.)	30.7	31	29	121.0	116	123	0.0	0	1

Table 9 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Trojan TXS102 (2X)	30.7	29	27	136.8	126	130	0.0	0	2
*DeKalb XL42 (2X)	30.7	---	---	137.1	---	---	0.8	-	-
Golden Harvest H-2450(2X)	30.7	29	27	133.9	133	138	0.8	0	0
*Voriss 2422 (2X)	30.8	30	---	139.0	143	---	0.7	0	-
McCurdy MSX42 (2X)	30.9	29	27	131.5	130	131	1.5	1	1
*Great Lakes GL-552 (2X)	30.9	---	---	144.6	---	---	0.0	-	-
*DeKalb XL55a (2X)	31.1	---	---	147.3	---	---	0.8	-	-
Super Crost 2880 (2X)	31.2	30	---	123.2	120	---	0.0	0	-
*Hyland HL-2784 (2X)	31.2	---	---	152.9	---	---	0.8	-	-
*Michigan 5922 (2X)	31.2	30	---	151.6	146	---	0.0	0	-
*Dairyland 1008X (2X)	31.3	---	---	144.6	---	---	0.7	-	-
*Funk G-4430 (2X)	31.3	30	---	146.5	143	---	0.0	0	-
*Garno S-100 (2X)	31.4	31	29	143.5	131	138	0.7	0	0
McKenzie 1001 (MSX)	31.4	---	---	123.2	---	---	0.0	-	-
*Golden Harvest H-2448 (MSX)	31.4	---	---	151.5	---	---	0.0	-	-
Hyland HL-2458 (2X)	31.4	---	---	126.2	---	---	0.0	-	-
Amcorn 7300 (2X)	31.4	30	28	124.0	127	132	0.0	0	1
Lowe LSX360 (2X)	31.5	---	---	117.4	---	---	0.7	-	-
Lowe LSX100 (2X)	31.5	---	---	117.2	---	---	0.0	-	-
Migro M-0301 (2X)	31.5	30	28	135.7	135	142	1.5	1	2
*Wolverine W174A (2X)	31.5	---	---	136.8	---	---	0.0	-	-
Northrup King PX37 (2X)	31.5	29	---	129.1	116	---	0.0	0	-
Acco UC3002 (2X)	31.5	---	---	127.0	---	---	0.0	-	-
*Amcorn 7480 (2X)	31.5	30	28	143.3	138	146	0.0	0	1
*DeKalb XL32a (2X)	31.7	---	---	161.2	---	---	0.0	-	-
Blaney B606E (2X)	31.9	30	28	117.9	116	127	0.0	0	1
*Migro M-3020 (4X)	31.9	30	29	157.9	137	141	0.0	0	1
*Gutwein 46B (2X)	32.0	30	28	142.4	136	136	0.0	0	0
*Migro HP27 (2X)	32.1	---	---	137.5	---	---	0.0	-	-
Funk G-4323 (MSX)	32.3	28	---	121.7	117	---	0.0	0	-
McCurdy MSX46 (2X)	32.4	29	28	122.0	132	134	0.0	0	0
Pioneer 3541 (2X)	32.6	32	---	121.0	126	---	0.7	0	-
Pioneer 3535 (2X)	32.7	32	30	130.8	136	145	0.0	0	0
Asgrow RX544 (MSX)	32.8	---	---	127.2	---	---	0.0	-	-
Migro HP23R (2X)	32.9	---	---	121.8	---	---	0.0	-	-
*Golden Harvest H-2445 (MSX)	33.0	31	---	144.9	131	---	0.8	0	-
Renk RK77 (2X)	33.1	---	---	131.4	---	---	1.4	-	-
Super Crost 79022 (2X)	33.2	---	---	118.3	---	---	0.0	-	-
*Anderson SSX (2X)	33.3	---	---	143.0	---	---	1.4	-	-
*Golden Harvest H-2500(2X)	34.8	33	31	154.5	143	149	0.7	0	1
Anderson Silo Filler (4X)	34.9	33	---	114.9	108	---	0.0	0	-
*Migro M-0505 (2X)	35.0	33	31	153.0	149	147	0.0	0	0
O's Gold SX5500A (2X)	35.7	34	---	156.9	142	---	0.0	0	-
Average	29.7	28	27	122.4	123	130	0.8	0.3	1
Range	23.3 to 35.7	22 to 34	22 to 31	79.0 to 161.2	87 to 149	94 to 149	0.0 to 5.5	0 to 3	0 to 4
Least significant difference	1.6	0.9	0.7	14.1	8	5	-	-	-

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 7	April 26	April 30
Harvested	October 10	October 3	September 27
Soil type	Conover clay loam	Conover clay loam	Conover clay loam
Previous crop	Corn	Corn	Corn
Population	21,300	20,600	21,400
Rows	36"	36"	36"
Fertilizer	150-50-50	165-50-50	145-50-50
Soil test: pH	6.4	6.5	6.7
P	119 (very high)	78 (high)	87 (high)
K	220 (high)	173 (medium)	270 (high)

Farm Cooperator: Michigan State University, East Lansing

County Extension Director: Marvin Preston, Mason

(continued)

Table 10

SOUTH CENTRAL MICHIGAN
Ingham County Trial - Silage
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 2

Hybrid (Brand-Variety)	% Dry matter		Tons per acre					
			Green weight			Dry weight		
	1979	yr.	1979	yr.	yr.	1979	yr.	yr.
Migro HP 16(2X)	37.6	---	17.7	---	---	6.6	---	---
P-A-G Exp. 263048 (2X)	37.2	---	18.6	---	---	6.9	---	---
Hyland HL-2418 (2X)	36.9	---	14.9	---	---	5.6	---	---
Hyland HL-2430 (2X)	36.6	---	17.1	---	---	6.2	---	---
Golden Harvest H-2239 (MSX)	36.1	---	14.3	---	---	5.1	---	---
Michigan 333-3X (3X)	36.0	42.0	17.2	16.0	15.1	6.2	6.6	6.3
Michigan 3102 (2X)	35.2	40.1	17.0	16.8	16.9	6.0	6.7	6.8
Super Crost 1692 (2X)	35.0	40.0	15.9	15.3	14.9	5.6	6.1	6.0
Super Crost 1950 (2X)	34.7	38.4	17.2	15.9	---	6.0	6.1	---
Hyland H-2219 (2X)	34.5	---	13.1	---	---	4.5	---	---
Hyland H-2450 (2X)	34.4	---	18.0	---	---	6.2	---	---
P-A-G SX189 (2X)	34.3	38.2	17.2	17.7	---	5.9	6.8	---
Funk G-4141A (MSX)	34.3	---	16.7	---	---	5.7	---	---
Blaney B406 (2X)	34.0	40.6	17.8	16.7	---	6.0	6.7	---
Michigan 407-2X (2X)	33.4	38.5	18.6	17.6	17.7	6.2	6.7	6.7
Funk G-4224 (MSX)	33.4	38.6	20.9	18.9	---	7.0	7.2	---
Hyland HL-2217 (2X)	33.2	---	15.6	---	---	5.2	---	---
Super Crost 1580 (2X)	33.2	---	15.7	---	---	5.2	---	---
McCurdy MSX37 (2X)	33.2	---	20.0	---	---	6.6	---	---
Hyland H-2216 (2X)	33.2	---	15.7	---	---	5.2	---	---
Dairyland 1099 (2X)	33.1	38.4	16.6	17.0	---	5.4	6.5	---
Golden Harvest H-2450 (2X)	32.9	35.6	19.7	18.8	19.1	6.5	6.7	6.7
Seneca S1341 (2X)	32.7	---	17.7	---	---	5.7	---	---
Warwick TX27 (2X)	32.6	38.9	15.7	14.4	14.0	5.1	5.5	5.4
Wolverine W168 (2X)	32.5	---	21.1	---	---	6.8	---	---
Northrup King PX485 (3X)	32.5	---	17.7	---	---	5.7	---	---
Hyland HL-2442 (2X)	32.3	---	16.0	---	---	5.1	---	---
Renk R146 (3X)	32.3	---	20.8	---	---	6.7	---	---
Hyland HL-2440 (2X)	32.2	---	19.4	---	---	6.2	---	---
Northrup King PX22 (2X)	32.2	40.3	17.5	15.5	---	5.6	6.1	---
Pioneer 3901 (2X)	32.1	39.6	19.4	16.2	16.0	6.2	6.1	6.2
Amcorn 4100 (2X)	32.1	36.7	16.0	17.0	16.8	5.1	6.3	6.3
Voris 2372 (2X)	32.1	37.5	18.2	17.7	18.2	5.8	6.6	6.7
Renk RK44(2X)	32.0	35.9	16.7	16.0	16.8	5.3	5.7	6.0
Garno S-90 (2X)	31.9	37.4	19.4	17.7	---	6.2	6.5	---
Pioneer 3780 (2X)	31.9	36.6	20.1	18.4	18.8	6.4	6.7	6.8
Farm Bureau FBS 315 (2X)	31.7	---	19.0	---	---	6.0	---	---
Northrup King PX37 (2X)	31.7	35.8	21.5	20.8	---	6.8	7.4	---
Renk RK40 (2X)	31.6	38.4	18.6	17.8	---	5.9	6.8	---
Seneca S2361 (2X)	31.5	---	22.4	---	---	7.1	---	---
Lowe LSX-217 (2X)	31.4	---	20.1	---	---	6.3	---	---
Michigan 3953 (3X)	31.4	38.9	20.0	17.4	16.7	6.3	6.6	6.6
Andersons AX-4 (Sp.)	31.4	35.4	18.9	19.1	19.1	6.0	6.8	6.7
Acco UC1905 (2X)	31.4	---	17.3	---	---	5.4	---	---
Seneca 321 (3X)	31.3	36.1	18.3	18.3	---	5.7	6.6	---
Renk RK15 (2X)	31.2	36.5	20.8	18.3	18.5	6.4	6.5	6.6
Northrup King PX24 (2X)	31.1	---	17.3	---	---	5.4	---	---
Migro HP20 (2X)	31.0	---	18.5	---	---	5.7	---	---
Hyland HL-2784 (2X)	31.0	---	20.4	---	---	6.3	---	---
Golden Harvest H-2373 (2X)	31.0	36.9	20.8	18.1	---	6.5	6.5	---
Pride R549 (3X)	30.9	---	21.9	---	---	6.8	---	---
Voris 2381 (2X)	30.9	33.4	18.4	17.8	---	5.7	5.9	---
McCurdy MSX 42 (2X)	30.9	35.9	19.8	18.2	18.5	6.1	6.4	6.4
Voris X441 (2X)	30.8	---	18.4	---	---	5.7	---	---
Great Lakes GL-452 (2X)	30.8	---	18.1	---	---	5.6	---	---
Blaney B605MX (2X)	30.8	35.6	20.3	19.4	19.3	6.3	6.9	6.7
Lowe LSX-360 (2X)	30.7	---	19.6	---	---	6.0	---	---
Gutwein 2250 (2X)	30.7	---	19.6	---	---	6.0	---	---
Dairyland 1005 (2X)	30.6	35.2	20.6	18.0	---	6.3	6.2	---
McKenzie 950 (MSX)	30.6	---	20.9	---	---	6.4	---	---
Golden Harvest H-2448 (MSX)	30.5	---	22.3	---	---	6.8	---	---
Super Crost 79022 (2X)	30.5	---	23.5	---	---	7.2	---	---
Golden Harvest H-2370 (2X)	30.5	38.5	17.4	16.1	15.5	5.3	6.1	5.7
Michigan 4122 (2X)	30.5	36.7	21.2	19.1	19.4	6.5	6.9	7.0
Acco UC3002 (2X)	30.4	---	21.2	---	---	6.4	---	---

(continued)

Table 10 (continued)

Hybrid (Brand-Variety)	% Dry matter		Tons per acre					
			Green weight			Dry weight		
	1979	yr.	1979	yr.	yr.	1979	yr.	yr.
Hyland HL-2458 (2X)	30.2	---	20.7	---	---	6.2	---	---
Super Crost 2350 (2X)	30.2	35.9	19.7	18.4	19.1	5.9	6.5	6.8
DeKalb XL23 (2X)	30.1	---	22.6	---	---	6.8	---	---
Pride 4488 (2X)	30.1	35.6	17.5	17.5	---	5.3	6.2	---
Asgrow RX544 (MSX)	30.1	---	22.9	---	---	6.8	---	---
DeKalb XL30a (2X)	30.0	---	18.2	---	---	5.5	---	---
Garno S-100 (2X)	30.0	33.0	24.1	22.4	21.6	7.2	7.3	7.0
Migro M-2022 (2X)	30.0	36.4	20.6	19.5	---	6.2	7.0	---
Michigan 5802 (2X)	30.0	35.8	22.6	19.8	19.5	6.8	6.9	6.9
Renk RK66E (2X)	30.0	35.1	19.9	19.4	---	6.0	6.8	---
Pride 5525 (2X)	30.0	33.3	22.7	20.4	21.5	6.8	6.7	7.0
Trojan TXS102 (2X)	30.0	34.9	19.8	18.7	19.2	5.9	6.5	6.6
Renk RK66 (2X)	30.0	34.7	20.9	19.0	20.1	6.3	6.5	6.5
Pioneer 3535 (2X)	29.8	32.9	23.1	21.4	21.5	6.9	7.0	7.0
Pickseed 8858 (2X)	29.7	---	18.2	---	---	5.4	---	---
McCurdy MSX46 (2X)	29.7	33.1	19.1	20.7	20.6	5.7	6.9	6.8
DeKalb XL42 (2X)	29.6	---	18.9	---	---	5.6	---	---
DeKalb XL25a (2X)	29.5	---	23.0	---	---	6.8	---	---
Michigan 5912 (2X)	29.5	34.6	21.4	20.5	21.1	6.3	7.0	7.3
Dairyland 1007B (MSX)	29.4	---	22.7	---	---	6.7	---	---
Pioneer 3541 (2X)	29.4	33.5	21.7	19.9	---	6.4	6.6	---
Asgrow RX2345	29.4	33.6	21.5	19.8	---	6.3	6.6	---
Michigan 5922 (2X)	29.4	33.8	23.1	21.1	---	6.8	7.0	---
Golden Harvest H-2445 (MSX)	29.4	32.8	23.0	20.2	---	6.8	6.5	---
McKenzie 1001 (MSX)	29.4	---	24.5	---	---	7.2	---	---
Warwick W901 (2X)	29.3	---	18.1	---	---	5.3	---	---
Trojan T1058 (2X)	29.3	---	20.2	---	---	5.9	---	---
Gutwein 46B (2X)	29.1	35.8	23.2	20.3	21.2	6.8	7.1	7.3
Great Lakes GL-552 (2X)	29.1	---	23.0	---	---	6.7	---	---
Super Crost 2880 (2X)	29.1	34.0	21.3	19.7	---	6.2	6.6	---
Migro M-2018X (2X)	29.1	32.1	24.2	20.6	20.6	7.0	6.5	6.3
Andersons SSE (2X)	29.1	34.6	18.3	18.0	18.7	5.3	6.2	6.4
Super Crost 2470 (2X)	29.0	34.1	19.5	18.9	19.0	5.6	6.4	6.5
DeKalb XL32a (2X)	29.0	---	21.9	---	---	6.4	---	---
Amcorn 7300 (2X)	29.0	34.9	19.0	17.9	19.1	5.5	6.2	6.4
Blaney B606E (2X)	28.8	35.0	21.2	20.4	19.7	6.1	7.1	6.6
Lowe LSX-222 (2X)	28.7	---	20.7	---	---	5.9	---	---
Dairyland 1008X (2X)	28.7	---	21.2	---	---	6.1	---	---
Amcorn 7480 (2X)	28.7	32.5	21.5	20.5	20.5	6.2	6.6	6.7
Wolverine W166 (2X)	28.5	34.4	21.8	19.7	---	6.2	6.6	---
Voris 2422 (2X)	28.5	---	24.2	---	---	6.9	---	---
Northrup King PX49 (2X)	28.3	33.0	22.3	21.9	---	6.3	7.2	---
Migro HP-27 (2X)	28.3	---	23.8	---	---	6.7	---	---
Northrup King PX32 (2X)	28.1	35.5	19.5	18.2	18.6	5.5	6.4	6.6
DeKalb XL55a (3X)	28.0	---	23.4	---	---	6.5	---	---
Andersons SSX (2X)	27.9	---	26.6	---	---	7.4	---	---
Funk G-4430 (2X)	27.6	31.9	26.7	24.0	---	7.4	7.5	---
Funk G-4323 (MSX)	27.6	32.4	21.9	20.0	---	6.1	6.4	---
Migro M-0301 (2X)	27.6	31.2	22.0	22.0	22.2	6.1	6.9	7.1
Lowe LSX-100 (2X)	27.5	---	23.5	---	---	6.5	---	---
Andersons Silo Filler (4X)	27.4	28.7	25.7	22.5	---	7.0	6.4	---
Migro M-3020 (4X)	27.4	32.5	21.9	19.0	18.9	6.0	6.0	5.9
Migro HP-23R (2X)	27.3	---	24.3	---	---	6.7	---	---
Migro M-0505 (2X)	27.1	30.8	27.3	24.2	24.4	7.4	7.3	7.4
O's Gold SX5500A (2X)	26.9	29.9	27.2	24.7	---	7.3	7.3	---
Renk RK77 (2X)	26.6	---	24.2	---	---	6.4	---	---
Wolverine W174A (2X)	26.6	---	23.3	---	---	6.2	---	---
Golden Harvest H-2500 (2X)	25.3	30.4	28.1	24.6	25.4	7.1	7.3	7.3

(continued)

Table 10 (continued)

Hybrid (Brand-Variety)	% Dry matter			Tons per acre					
				Green weight			Dry weight		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Average	30.6	35.4	35.4	20.2	19.0	19.0	6.1	6.6	6.6
Range	25.3 to 37.6	28.7 to 42.0	29.4 to 42.7	13.1 to 28.1	14.4 to 24.7	14.0 to 25.4	4.5 to 7.4	5.5 to 7.5	5.4 to 7.4
Least significant difference	2.5	1.6	1.1	1.7	1.1	0.7	0.6	0.5	0.4
Planted	1979			1978			1977		
Harvested	May 7			April 26			April 30		
Soil type	September 10			September 5			August 25		
Previous crop	Conover clay loam			Conover clay loam			Conover clay loam		
Population	Corn			Corn			Corn		
Rows	21,300			20,400			21,100		
Fertilizer	36"			36"			36"		
Soil test: pH	150-50-50			165-50-50			145-50-50		
P	6.4			6.5			6.7		
K	119 (very high)			78 (high)			87 (high)		
	220 (high)			173 (medium)			270 (high)		

Farm Cooperator: Michigan State University, East Lansing

County Extension Director: Marvin Preston, Mason

Table 11

NORTH CENTRAL MICHIGAN
Sanilac County Trial - Grain
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Seneca 149 (3X)	24.0	25	---	90.4	88	---	0.0	0	-
Michigan 333-3X (3X)	25.7	24	24	116.7	111	120	3.3	2	1
Michigan 3093 (3X)	25.9	24	24	108.1	105	115	1.4	1	0
Michigan 280 (4X)	25.9	23	23	107.1	101	105	6.7	3	2
Cargill 810 (2X)	26.1	24	24	83.8	81	91	1.4	1	0
McKenzie 901 (3X)	26.3	---	---	94.6	---	---	7.1	-	-
Super Crost 1303 (3X)	26.5	25	---	88.7	92	---	3.3	2	-
DeKalb XL11 (2X)	26.5	---	---	91.0	---	---	3.7	-	-
Asgrow RX255 (3X)	26.7	---	---	94.6	---	---	3.4	-	-
Northrup King PX22 (2X)	27.0	25	---	116.5	104	---	3.7	2	-
Blaney B302-wx (2X)	27.2	26	---	122.4	106	---	0.0	0	-
Jacques JX25 (2X)	27.2	25	25	103.7	97	105	12.2	6	4
Super Crost 1402 (2X)	27.2	25	---	83.7	88	---	4.7	2	-
Wolverine W133 (2X)	27.3	---	---	108.3	---	---	0.7	-	-
Michigan 3102 (2X)	27.4	26	26	116.3	105	119	0.8	0	0
P-A-G SX111 (2X)	27.4	24	---	87.3	90	---	9.7	5	-
Migro HP16 (2X)	27.4	---	---	92.5	---	---	4.8	-	-
Migro M-0101 (2X)	27.5	26	26	126.8	110	121	8.2	4	3
Voris 2352 (Sp.)	27.7	26	26	93.1	95	111	3.4	2	1
DeKalb XL13 (2X)	27.7	---	---	113.6	---	---	8.6	-	-
McKenzie 840 (3X)	27.9	---	---	88.3	---	---	14.3	-	-
Funk G-4141A (MSX)	28.0	---	---	121.3	---	---	2.1	-	-
DeKalb XL309 (3X)	28.1	---	---	89.6	---	---	6.3	-	-
Pioneer 3958 (2X)	28.1	---	---	117.9	---	---	0.7	-	-
Pioneer 3965A (3X)	28.1	---	---	91.7	---	---	7.0	-	-
Sohigro 15 (2X)	28.2	---	---	88.6	---	---	8.6	-	-
Renk RK6 (2X)	28.5	---	---	110.2	---	---	1.4	-	-
Super Crost S18 (2X)	28.5	27	---	118.3	112	---	0.0	0	-
Trojan TX90 (3X)	28.7	27	26	91.4	108	109	2.3	1	1
Super Crost 1580 (2X)	28.7	---	---	113.3	---	---	0.0	-	-
Asgrow RX40 (2X)	28.8	28	27	114.6	101	118	0.0	0	0
Super Crost 1692 (2X)	28.9	27	26	109.6	106	113	0.7	0	0
Asgrow RX37 (3X)	28.9	---	---	100.5	---	---	1.5	-	-
Blaney B605-wx (2X)	29.1	28	28	117.0	115	125	0.0	0	0
DeKalb XL12 (2X)	29.1	---	---	110.7	---	---	4.2	-	-
*P-A-G Exp. 263048 (2X)	29.2	---	---	128.5	---	---	4.1	-	-
Michigan 3953 (3X)	29.3	27	---	108.9	110	---	1.4	1	-
Dairyland 1099 (2X)	29.3	---	---	126.7	---	---	6.8	-	-
Michigan 407-2X (2X)	29.4	28	27	118.5	112	126	3.4	2	1
Pioneer 3950 (MSX)	29.4	---	---	97.1	---	---	0.7	-	-

(continued)

Table 11 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
P-A-G SX177 (2X)	29.5	27	27	119.2	113	115	0.7	0	1
DeKalb XL23 (2X)	29.9	---	---	121.0	---	---	0.7	-	-
Pride 4449 (2X)	29.9	---	---	120.0	---	---	1.4	-	-
Acco UC1151 (2X)	29.9	---	---	87.0	---	---	2.2	-	-
*Super Crost 78015 (2X)	30.0	---	---	129.7	---	---	3.5	-	-
Dairyland 1002 (2X)	30.0	---	---	110.0	---	---	6.2	-	-
Northrup King PX24 (2X)	30.0	---	---	119.6	---	---	0.7	-	-
Great Lakes GL-452 (2X)	30.0	---	---	125.0	---	---	0.0	-	-
*Pioneer 3901 (2X)	30.2	28	27	143.2	133	143	0.0	0	0
Wolverine W126 (2X)	30.4	---	---	111.4	---	---	2.1	-	-
Voris 2372 (2X)	30.4	29	28	116.6	117	130	0.7	0	0
*Migro M-0105 (2X)	30.4	28	27	132.6	116	132	0.7	0	0
Cargill 832 (2X)	30.4	28	---	107.7	99	---	5.9	3	-
Golden Harvest H-2370(2X)	30.5	28	28	108.8	117	124	2.8	1	1
DeKalb XL15 (2X)	30.6	29	---	110.6	110	---	0.0	0	-
Gutwein 2140 (2X)	30.6	28	---	114.1	102	---	0.0	0	-
Blaney B443 (3X)	30.6	29	29	119.2	104	117	6.2	3	2
Trojan T1008 (2X)	30.7	29	---	119.7	105	---	0.0	0	-
*Renk RK66E (2X)	30.7	---	---	135.9	---	---	0.7	-	-
Garno S-90 (2X)	30.7	---	---	124.7	---	---	0.0	-	-
*Northrup King PX26 (2X)	30.9	28	---	137.4	130	---	1.4	1	-
Trojan TXS94 (2X)	31.1	---	---	102.6	---	---	0.0	-	-
*Acco UC2901 (2X)	31.2	29	29	128.3	118	127	2.9	1	1
*Michigan 4122 (2X)	31.2	30	29	133.7	123	133	0.0	0	0
Funk G-4272 (3X)	31.2	29	28	123.9	119	132	0.7	0	0
Jacques JX90 (2X)	31.2	29	---	124.1	118	---	0.0	0	-
Acco UC2951 (2X)	31.2	29	---	123.4	113	---	0.0	0	-
Migro HP20 (2X)	31.4	---	---	119.7	---	---	0.0	-	-
Cargill 838 (2X)	31.5	29	---	108.4	101	---	1.4	1	-
Super Crost 1950 (2X)	31.6	28	---	122.0	117	---	0.7	0	-
Gutwein 2075 (2X)	31.6	29	---	105.2	103	---	0.8	0	-
*McKenzie 950 (MSX)	31.6	---	---	128.9	---	---	0.0	-	-
Renk R146 (3X)	31.6	---	---	124.9	---	---	0.7	-	-
Seneca S3193 (3X)	31.7	---	---	118.1	---	---	0.0	-	-
Golden Harvest H-2373(2X)	31.7	29	---	105.7	110	---	1.5	1	-
DeKalb XL25 (2X)	31.7	30	---	108.5	99	---	0.7	0	-
P-A-G SX189 (2X)	31.8	31	30	109.7	105	116	1.4	1	0
Pioneer 3780 (2X)	31.8	30	29	123.2	118	131	0.0	0	0
*Amcorn 7300 (2X)	31.8	30	30	140.3	126	132	0.0	0	0
Renk RK15 (2X)	31.8	28	27	120.8	108	126	2.7	1	1
Renk RK40 (2X)	32.0	30	---	123.9	116	---	0.0	0	-
Pride R549 (3X)	32.1	---	---	126.2	---	---	0.0	-	-
Super Crest 2350 (2X)	32.2	30	29	124.5	113	121	0.0	0	0
*Amcorn 7480 (2X)	32.2	31	31	136.3	126	138	0.0	0	0
Voris 2381 (2X)	32.3	30	---	127.3	112	---	0.0	0	-
McKenzie 1001 (MSX)	32.3	---	---	124.9	---	---	0.0	-	-
Funk G-4224 (MSX)	32.4	---	---	125.2	---	---	0.0	-	-
Amcorn 4100 (2X)	32.4	31	30	109.5	110	125	0.0	0	1
Wolverine W166 (2X)	32.5	---	---	113.4	---	---	0.0	-	-
*Pride 4488 (2X)	32.9	31	---	147.7	132	---	0.0	0	-
*Migro M-3020 (4X)	33.1	---	---	136.6	---	---	0.0	-	-
Migro M-2022X (2X)	33.1	---	---	113.6	---	---	1.4	-	-
Super Crest S27 (2X)	33.1	32	31	121.0	117	133	0.0	0	0
*Michigan 5912 (2X)	33.2	32	---	139.5	126	---	0.0	0	-
Asgrow RX2345 (2X)	33.2	32	---	118.1	105	---	1.4	1	-
O's Gold SX999 (2X)	33.3	---	---	124.0	---	---	0.0	-	-
*Trojan TXS102 (2X)	33.4	---	---	132.6	---	---	1.4	-	-
*Blaney B606 (2X)	33.6	32	32	131.6	109	124	0.0	0	0
*Michigan 5802 (2X)	33.7	32	31	141.9	125	135	1.3	1	0
*Pride 5525 (2X)	33.8	32	31	128.9	113	129	0.7	0	0
Golden Harvest H-2450(2X)	33.9	32	31	118.2	103	120	0.0	0	0
*Great Lakes GL-552 (2X)	33.9	---	---	136.5	---	---	3.5	-	-
Voris 2422 (2X)	34.1	---	---	120.0	---	---	0.7	-	-
Migro HP23R (2X)	34.1	---	---	119.1	---	---	0.7	-	-
Dairyland 1007B (MSX)	34.4	---	---	123.7	---	---	0.0	-	-
Northrup King PX37 (2X)	34.5	32	---	108.2	99	---	0.0	0	-
*Renk RK66 (2X)	34.6	32	31	133.2	111	116	0.0	0	1
*Garno S-100 (2X)	34.6	33	---	134.7	121	---	0.0	0	-
*Michigan 5922 (2X)	34.6	---	---	130.8	---	---	0.0	-	-
*Migro M-2018X (2X)	34.7	32	31	129.1	115	132	0.0	0	0

(continued)

Table 11 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Golden Harvest H-2445 (MSX)	34.7	32	---	115.6	109	---	0.7	0	-
*Migro HP27 (2X)	34.9	---	---	128.6	---	---	1.5	-	-
Funk G-4323 (MSX)	35.3	33	---	102.7	108	---	0.0	0	-
*Golden Harvest H-2500(2X)	35.5	---	---	128.4	---	---	0.0	-	-
Migro M-0505 (2X)	36.0	35	---	124.0	118	---	5.8	3	-
Average	30.4	29	28	115.4	110	122	1.9	1	0.6
Range	24.0 to 36.0	25 to 35	23 to 32	83.7 to 147.7	81 to 133	91 to 143	0 to 14.3	0 to 6	0 to 4
Least significant difference	1.6	1.0	0.8	12.1	8	5			

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 14	May 20	May 9
Harvested	November 14	November 4	October 28
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	21,500	19,900	21,300
Rows	30"	30"	30"
Fertilizer	125-50-70	120-60-134	125-95-144
Soil test: pH	6.8	6.9	6.6
P	101 (very high)	64 (medium high)	104 (very high)
K	194 (medium)	200 (medium)	173 (medium)

Farm Cooperator: Orville Orchard, Applegate

County Extension Director: Rex Sieting, Sandusky

Table 12 NORTH CENTRAL MICHIGAN
Sanilac County Trial - Silage Zone 3
One, Two, Three Year Averages - 1979, 1978, 1977

Hybrid (Brand-Variety)	% Dry matter			Tons per acre					
	1979	2 yr.	3 yr.	Green weight			Dry weight		
				1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Seneca 149 (3X)	41.8	39.5	---	14.8	14.0	---	6.2	5.6	---
Cargill 810 (2X)	40.3	40.0	41.1	14.5	13.8	13.4	5.9	5.8	5.5
Michigan 280 (4X)	37.5	38.8	40.5	16.5	14.3	14.0	6.2	5.5	5.6
DeKalb XL11 (2X)	35.7	---	---	18.0	---	---	6.5	---	---
P-A-G SX111 (2X)	35.0	37.6	---	13.4	12.7	---	4.7	4.7	---
Pioneer 3950 (MSX)	34.8	---	---	18.8	---	---	6.6	---	---
Wolverine W133 (2X)	34.5	---	---	17.7	---	---	6.1	---	---
Michigan 333-3X (3X)	34.3	35.5	38.0	19.0	16.6	15.4	6.5	5.8	5.8
Funk G-4141A (MSX)	33.8	---	---	21.0	---	---	7.1	---	---
DeKalb XL309 (3X)	33.7	---	---	19.4	---	---	6.5	---	---
Jacques JX25 (2X)	33.2	33.6	35.9	14.4	14.9	15.6	4.7	4.9	5.5
Super Crost 1303 (3X)	33.0	36.3	---	14.4	12.2	---	4.7	4.3	---
Super Crost 1692 (2X)	33.0	34.3	35.6	21.5	18.6	17.5	7.1	6.3	6.2
Super Crost 1580 (2X)	32.4	---	---	16.6	---	---	5.4	---	---
Michigan 3093 (3X)	32.3	34.1	36.7	21.4	17.5	16.4	6.9	5.9	5.9
Northrup King PX22 (2X)	32.1	32.7	---	20.4	19.4	---	6.5	6.3	---
Super Crost 1402 (2X)	32.1	34.4	---	15.9	15.0	---	5.1	5.1	---
P-A-G Exp. 263048 (2X)	31.9	---	---	22.6	---	---	7.2	---	---
Pioneer 3965A (3X)	31.9	---	---	21.1	---	---	6.7	---	---
Pioneer 3958 (2X)	31.6	---	---	17.7	---	---	5.6	---	---
DeKalb XL12 (2X)	31.6	---	---	19.5	---	---	6.2	---	---
Blaney B302-WX (2X)	31.6	33.3	---	19.2	16.1	---	6.1	5.3	---
DeKalb XL13 (2X)	31.3	---	---	21.7	---	---	6.8	---	---
Migro HP16 (2X)	31.3	---	---	19.0	---	---	5.9	---	---
Wolverine W126 (2X)	31.1	---	---	20.0	---	---	6.2	---	---
Dairyland 1002 (2X)	30.9	---	---	19.5	---	---	6.0	---	---
Garno S-90 (2X)	30.9	---	---	23.6	---	---	7.3	---	---
McKenzie 840 (3X)	30.5	---	---	14.4	---	---	4.4	---	---
Asgrow RX37 (3X)	30.4	---	---	17.9	---	---	5.4	---	---
P-A-G SX189 (2X)	30.4	30.9	32.5	23.0	19.7	19.0	7.0	6.1	6.2
Gutwein 2075 (2X)	30.4	31.0	---	19.5	19.3	---	5.9	5.9	---
McKenzie 901 (3X)	30.3	---	---	17.7	---	---	5.4	---	---
Michigan 3102 (2X)	30.2	32.6	34.4	21.5	19.0	19.0	6.5	6.1	6.5
Sohigro 15 (2X)	30.1	---	---	17.4	---	---	5.2	---	---
Cargill 838 (2X)	30.1	32.4	---	22.4	17.7	---	6.7	5.6	---

Table 12 (continued)

Hybrid (Brand-Variety)	% Dry matter			Tons per acre					
	1979	2 yr.	3 yr.	Green weight			Dry weight		
				1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Migro M-0101 (2X)	29.5	32.2	---	22.5	19.5	---	6.6	6.1	---
Acco UC1151 (2X)	29.2	---	---	16.7	---	---	4.9	---	---
Super Crost S18 (2X)	29.0	31.2	---	23.8	20.0	---	6.9	6.1	---
Renk RK6 (2X)	29.0	---	---	18.1	---	---	5.2	---	---
Pioneer 3901 (2X)	29.0	29.9	31.7	25.9	23.0	21.7	7.5	6.8	6.8
Northrup King PX26 (2X)	28.6	31.0	---	19.3	17.5	---	5.5	5.3	---
Voris 2352 (Sp.)	28.6	31.3	33.3	20.6	17.4	17.2	5.9	5.4	5.7
Migro M-0105 (2X)	28.5	29.7	30.4	25.6	20.5	20.1	7.3	6.0	6.1
Golden Harvest H-2370 (2X)	28.5	30.6	33.4	21.1	19.0	17.8	6.0	5.8	5.9
Voris 2372 (2X)	28.5	30.3	31.8	21.1	19.0	19.4	6.0	5.7	6.1
Migro HP20 (2X)	28.5	---	---	25.3	---	---	7.2	---	---
Voris 2381 (2X)	28.4	28.4	---	24.3	20.4	---	6.9	5.8	---
DeKalb XL25 (2X)	28.4	29.7	---	20.1	17.6	---	5.7	5.2	---
Seneca S3193 (3X)	28.3	---	---	19.8	---	---	5.6	---	---
P-A-G SX177 (2X)	28.3	30.1	32.0	23.3	19.6	20.3	6.6	5.8	6.5
Great Lakes GL-452 (2X)	28.2	---	---	24.8	---	---	7.0	---	---
Trojan TX90 (3X)	28.0	31.7	35.5	17.9	17.0	15.9	5.0	5.4	5.6
Asgrow RX40 (2X)	28.0	29.4	31.5	21.4	17.8	16.9	6.0	5.2	5.2
Michigan 3953 (3X)	27.9	30.9	---	21.1	18.9	---	5.9	5.8	---
Trojan TX594 (2X)	27.8	31.9	---	17.9	16.8	---	5.0	5.3	---
Trojan T1008 (2X)	27.4	29.1	---	26.3	22.1	---	7.2	6.3	---
Northrup King PX24 (2X)	27.4	---	---	22.3	---	---	6.1	---	---
Michigan 407-2X (2X)	27.3	29.8	31.9	23.4	20.2	19.8	6.4	5.9	6.2
Funk G-4224 (MSX)	27.3	---	---	28.2	---	---	7.7	---	---
Funk G-4272 (3X)	27.2	30.2	31.8	21.7	18.4	19.7	5.9	5.4	6.2
Acco UC2951 (2X)	27.2	29.1	---	23.9	19.9	---	6.5	5.7	---
Cargill 832 (2X)	27.1	29.1	---	18.5	16.5	---	5.0	4.7	---
Gutwein 2140 (2X)	26.9	30.4	---	27.8	22.4	---	7.5	6.6	---
McKenzie 950 (MSX)	26.8	---	---	25.1	---	---	6.8	---	---
Blaney B443 (3X)	26.5	30.4	31.7	23.1	20.0	19.6	6.1	6.0	6.1
DeKalb XL 15 (2X)	26.5	29.4	---	23.4	20.8	---	6.2	6.0	---
Super Crost S27 (2X)	26.4	27.7	29.7	24.4	21.6	20.4	6.4	5.9	6.0
DeKalb XL23 (2X)	26.2	---	---	25.3	---	---	6.6	---	---
Northrup King PX37 (2X)	26.2	27.0	---	26.1	23.1	---	6.8	6.2	---
Super Crost 1950 (2X)	26.1	29.0	---	24.0	18.8	---	6.3	5.3	---
Super Crost 2350 (2X)	26.1	28.2	30.5	25.3	21.3	21.5	6.6	5.9	6.5
Renk RK66E (2X)	26.1	---	---	25.8	---	---	6.7	---	---
Michigan 4122 (2X)	25.9	29.0	31.1	27.0	21.6	21.5	7.0	6.1	6.6
Renk RK40 (2X)	25.5	28.4	---	22.0	19.7	---	5.6	5.5	---
O's Gold SX999 (2X)	25.5	---	---	26.7	---	---	6.8	---	---
Super Crost 78015 (2X)	25.4	---	---	20.5	---	---	5.2	---	---
Renk RK15 (2X)	25.3	29.1	30.0	29.6	22.5	21.4	7.5	6.3	6.2
Blaney B605WX (2X)	25.3	27.0	28.8	24.8	21.3	22.4	6.3	5.7	6.4
Michigan 5802 (2X)	25.3	27.6	29.5	26.1	22.7	22.3	6.6	6.2	6.5
Acco UC2901 (2X)	25.2	28.9	29.7	23.9	20.3	20.5	6.0	5.7	6.0
Pioneer 3780 (2X)	25.2	28.3	30.5	27.0	21.4	21.9	6.8	5.9	6.6
Michigan 5912 (2X)	25.1	26.4	---	26.3	22.5	---	6.6	5.9	---
Migro M-2022X (2X)	24.8	---	---	27.4	---	---	6.8	---	---
Wolverine W166 (2X)	24.8	---	---	29.2	---	---	7.3	---	---
Golden Harvest H-2373 (2X)	24.8	28.3	---	20.6	18.2	---	5.1	5.0	---
Trojan TXS102 (2X)	24.8	---	---	30.2	---	---	7.5	---	---
Garno S-100 (2X)	24.7	24.0	---	29.3	25.3	---	7.2	6.1	---
Migro HP23R (2X)	24.6	---	---	29.1	---	---	7.2	---	---
Michigan 5922 (2X)	24.6	---	---	29.0	---	---	7.1	---	---
Amcorn 4100 (2X)	24.6	26.4	27.8	22.4	19.7	19.9	5.5	5.2	5.5
Pride 4449 (2X)	24.6	---	---	23.9	---	---	5.9	---	---
Golden Harvest H-2450 (2X)	24.6	27.2	29.8	27.7	22.2	20.9	6.8	5.9	6.0
Dairyland 1099 (2X)	24.4	---	---	23.3	---	---	5.6	---	---
Pride 5525 (2X)	23.9	25.5	28.2	30.1	25.5	25.0	7.2	6.4	6.9
Jacques JX90 (2X)	23.9	27.3	---	24.7	20.3	---	5.9	5.4	---
Great Lakes GL-552 (2X)	23.9	---	---	28.0	---	---	6.7	---	---
Super Crost 2470 (2X)	23.8	---	---	25.2	---	---	6.0	---	---
Pride 4488 (2X)	23.4	25.7	---	25.9	21.2	---	6.1	5.4	---
Blaney B606 (2X)	23.4	26.2	28.1	25.4	22.0	22.1	6.1	5.7	6.2
Voris 2422 (2X)	23.4	---	---	32.1	---	---	7.5	---	---
Super Crost 2880 (2X)	23.4	25.1	---	28.7	23.4	---	6.7	5.8	---
Asgrow RX2345 (2X)	23.4	25.5	---	25.8	23.1	---	6.0	5.8	---
Migro HP27 (2X)	23.4	---	---	25.8	---	---	6.0	---	---
Pride R549 (3X)	23.3	---	---	31.6	---	---	7.4	---	---
Amcorn 7480 (2X)	23.2	24.3	24.9	30.1	23.9	22.1	7.0	5.7	5.4

Table 12 (continued)

Hybrid (Brand-Variety)	% Dry matter		Tons per acre						
			Green weight			Dry weight			
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Dairyland 1007B (MSX)	23.1	---	---	28.5	---	---	6.6	---	---
Renk R146 (3X)	22.9	---	---	27.8	---	---	6.4	---	---
Migro M-2018X (2X)	22.6	24.7	26.4	31.0	25.6	24.8	7.0	6.2	6.5
Renk RK66 (2X)	22.5	24.2	26.8	29.4	23.7	22.9	6.6	5.6	6.0
Funk G-4323 (MSX)	22.4	24.8	---	31.0	25.3	---	7.0	6.1	---
McKenzie 1001 (MSX)	22.3	---	---	30.5	---	---	6.8	---	---
Migro M-0505 (2X)	22.2	24.3	---	30.5	25.5	---	6.8	6.1	---
Amcorn 7300 (2X)	22.1	24.9	27.7	27.1	22.9	21.5	6.0	5.6	5.8
Migro M-3020 (4X)	22.0	23.4	26.1	31.8	25.4	24.5	7.0	5.8	6.1
Golden Harvest H-2500 (2X)	20.9	---	---	33.5	---	---	7.0	---	---
Average	27.4	29.6	31.5	23.5	19.9	19.7	6.3	5.7	6.0
Range	20.9 to 41.8	23.4 to 40.0	24.9 to 41.1	13.4 to 33.8	12.2 to 25.6	13.4 to 25.0	4.4 to 7.7	4.3 to 6.8	5.2 to 6.9
Least significant difference	2.4	1.6	1.0	1.8	1.3	0.8	0.7	0.5	0.4
Planted	1979	1978			1977				
Harvested	May 14	May 20			April 30				
Soil type	September 20	September 13			September 12				
Previous crop	Parkhill loam	Parkhill loam			Parkhill loam				
Population	Corn	Corn			Corn				
Rows	21,400	20,600			21,200				
Fertilizer	30"	30"			30"				
Soil test: pH	214-138-180	200-125-180			160-100-80				
P	7.4	7.4			7.0				
K	220 (very high)	125 (high)			55 (medium)				
	366 (very high)	415 (very high)			415 (very high)				

Farm Cooperator: Charles Cork, Peck

County Extension Director: Rex Sieling, Sandusky

Table 13

NORTH CENTRAL MICHIGAN
Saginaw County Trial
One, Two, Three Year Averages - 1979, 1978, 1977

(Brand-Variety)	Moisture			Bushels per acre			% Stalk lodging		
	1979	2	3	1979	2	3	1979	2	3
		yr.	yr.		yr.	yr.		yr.	yr.
Warwick W844 (Sp.)	18.6	---	---	88.9	---	---	22.3	-	-
Hyland HL-2430 (2X)	19.1	---	---	97.5	---	---	12.1	-	-
Pickseed Exp. 78X1010 (2X)	19.3	---	---	96.8	---	---	10.9	-	-
McKenzie 840 (3X)	19.4	---	---	83.8	---	---	30.6	-	-
Pride 2264 (2X)	19.5	20	22	104.1	109	109	15.8	8	5
Michigan 280 (4X)	19.5	19	21	93.0	93	88	23.2	14	10
Voris 2352 (Sp.)	19.6	---	---	86.8	---	---	15.7	-	-
ADI 195 (2X)	19.7	19	22	114.5	116	101	10.9	6	4
Michigan 333-3X (3X)	19.7	19	21	108.6	112	103	17.2	9	6
Farm Bureau FBM279 (MSX)	19.8	---	---	111.0	---	---	23.3	-	-
Super Crost 78015 (2X)	20.0	---	---	97.3	---	---	19.1	-	-
Pioneer 3950 (MSX)	20.0	---	---	86.9	---	---	19.8	-	-
Migro HP16 (2X)	20.1	---	---	100.1	---	---	13.2	-	-
Hyland HL-2442 (2X)	20.1	---	---	110.2	---	---	15.2	-	-
Migro M-0101 (2X)	20.3	---	---	111.4	---	---	12.3	-	-
Pioneer 3901 (2X)	20.4	21	23	118.2	118	113	10.8	6	4
McKenzie 901 (3X)	20.5	---	---	123.2	---	---	22.4	-	-
Voris 2321 (Sp.)	20.6	20	---	102.6	112	---	18.3	11	-
Sohigro S22 (2X)	20.6	20	---	99.9	113	---	27.1	17	-
Michigan 3093 (3X)	20.6	20	21	121.3	110	102	15.7	10	7
Blaney B401 (2X)	20.6	21	23	119.5	119	113	23.4	14	9
DeKalb XL13 (2X)	20.7	---	---	115.0	---	---	40.3	-	-
Garno S-90 (2X)	20.7	---	---	116.6	---	---	10.0	-	-
Super Crost 1950 (2X)	20.9	21	---	128.8	119	---	24.0	13	-
ADI 232 (2X)	21.1	20	22	114.1	109	100	17.3	10	7
Michigan 3102 (2X)	21.1	20	22	122.0	121	111	20.7	12	8
Northrup King PX24 (2X)	21.1	---	---	125.8	---	---	11.3	-	-
Funk G-4141A (MSX)	21.2	---	---	117.8	---	---	20.0	-	-
Payco 3X622 (3X)	21.3	---	---	97.9	---	---	20.7	-	-
Anderson SSA (2X)	21.3	20	24	120.2	117	119	15.6	9	6
McKenzie 950 (MSX)	21.4	---	---	108.1	---	---	20.2	-	-
Anderson SSE (2X)	21.5	21	24	121.6	122	110	12.4	6	5
Gutwein 2075 (2X)	21.7	21	---	96.7	104	---	26.7	18	-
Northrup King PX22 (2X)	21.7	20	---	96.8	108	---	22.9	14	-
Payco SX637 (2X)	21.7	---	---	126.8	---	---	16.8	-	-

(continued)

Table 13 (continued)

(Brand-Variety)	Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Dairyland 1002 (2X)	21.9	21	23	93.5	93	91	30.6	17	12
Funk G-4272 (3X)	21.9	22	24	115.0	121	115	10.3	6	4
Acco UC2951 (2X)	21.9	---	---	128.0	---	---	13.4	-	-
Funk G-4224 (MSX)	21.9	---	---	100.2	---	---	9.9	-	-
Amcorn 4010 (2X)	21.9	---	---	88.7	---	---	25.8	-	-
Migro M-0105 (2X)	22.0	21	24	105.0	117	117	16.1	9	6
Payco SX680 (2X)	22.1	21	23	93.3	93	88	43.4	25	17
Northrup King PX485 (3X)	22.2	---	---	129.6	---	---	16.8	-	-
Michigan 3953 (3X)	22.2	21	23	123.1	120	117	19.4	12	8
Voris 2381 (2X)	22.3	22	---	111.5	106	---	17.0	9	-
Kaltenberg KX54 (2X)	22.3	---	---	130.8	---	---	11.7	-	-
Acco UC1905 (2X)	22.3	---	---	102.4	---	---	28.5	-	-
Wolverine W166 (2X)	22.4	---	---	122.0	---	---	16.3	-	-
Warwick W901 (2X)	22.4	---	---	84.1	---	---	36.6	-	-
Hyland HL-2440 (2X)	22.4	---	---	113.6	---	---	22.9	-	-
Payco SX799 (2X)	22.6	---	---	131.8	---	---	12.4	-	-
Dairyland 1099 (2X)	22.6	21	---	105.3	114	---	33.8	20	-
Great Lakes GL-452 (2X)	22.6	---	---	110.5	---	---	27.0	-	-
Gutwein 2140 (2X)	22.7	21	---	127.4	123	---	12.1	7	-
Golden Harvest H-2370 (2X)	22.7	21	24	113.5	118	112	39.7	22	15
Golden Harvest H-2373 (2X)	22.7	22	---	98.4	117	---	42.5	22	-
DeKalb XL23 (2X)	22.7	---	---	128.4	---	---	18.3	-	-
Voris 2372 (2X)	22.7	22	25	120.4	126	119	25.0	15	10
Migro HP20 (2X)	22.9	---	---	117.9	---	---	35.4	-	-
Amcorn 4100 (2X)	22.9	22	24	117.5	114	108	14.3	10	7
Michigan 407-2X (2X)	22.9	22	24	131.6	126	118	26.3	14	9
*Super Crost 2350 (2X)	23.0	23	25	141.7	130	118	11.2	8	5
*Pioneer 3780 (2X)	23.0	23	26	136.7	130	123	13.4	7	5
*Pride 4488 (2X)	23.2	22	---	139.1	131	---	10.5	6	-
Payco SX844 (2X)	23.3	---	---	143.4	---	---	9.2	-	-
DeKalb XL25 (2X)	23.3	22	---	119.6	110	---	11.8	7	-
Hyland HL-2458 (2X)	23.4	---	---	126.9	---	---	9.8	-	-
*Migro HP23R (2X)	23.4	---	---	133.8	---	---	10.8	-	-
*Northrup King PX37 (2X)	23.4	23	---	137.2	126	---	15.5	8	-
Michigan 4122 (2X)	23.4	23	25	132.7	131	124	22.3	11	7
*Amcorn 7300 (2X)	23.5	23	26	139.7	124	115	29.4	17	12
Asgrow RX2345 (2X)	23.6	23	---	122.6	127	---	31.5	16	-
*Migro M-2018X (2X)	23.7	25	27	135.4	121	112	13.3	9	6
*Northrup King PX49 (2X)	23.7	23	---	147.8	138	---	11.7	7	-
*Golden Harvest H-2445 (MSX)	23.7	---	---	152.7	---	---	15.6	-	-
Gutwein 2250 (2X)	23.8	---	---	120.7	---	---	12.0	-	-
Dairyland 1007B (MSX)	23.8	---	---	112.4	---	---	45.7	-	-
*Sohigro S38 (2X)	23.9	23	---	135.3	126	---	10.0	6	-
McKenzie 1001 (MSX)	23.9	---	---	107.5	---	---	35.4	-	-
Gutwein 46B (2X)	24.0	---	---	127.5	---	---	19.9	-	-
DeKalb XL32a	24.1	---	---	122.8	---	---	10.1	-	-
Pride 5525 (2X)	24.1	24	27	115.1	120	113	8.3	6	4
Wolverine W168 (2X)	24.1	---	---	127.6	---	---	16.4	-	-
*Migro M-2022X (2X)	24.1	24	27	142.3	118	108	12.1	7	5
*Michigan 5802 (2X)	24.2	24	26	145.7	137	127	21.1	11	8
*Blaney B507 (2X)	24.4	---	---	141.3	---	---	15.6	-	-
*Funk G-4323 (MSX)	24.4	23	---	160.3	145	---	12.0	7	-
Asgrow RX544 (MSX)	24.4	---	---	129.5	---	---	14.9	-	-
*Michigan 5912 (2X)	24.5	24	26	138.2	126	128	20.8	10	7
*Garno S-100 (2X)	24.6	24	---	154.2	138	---	15.0	9	-
Acco UC2851 (2X)	24.6	23	---	104.6	108	---	30.4	18	-
*Golden Harvest H-2448 (2X)	24.7	---	---	140.2	---	---	14.2	-	-
*Michigan 5922 (2X)	24.7	---	---	148.5	---	---	13.1	-	-
*Sohigro S39 (2X)	24.8	24	---	152.5	139	---	11.6	7	-
O's Gold SX1100 (2X)	25.0	24	27	125.4	125	125	13.6	9	6
*Kaltenberg KX68 (2X)	25.0	---	---	154.3	---	---	11.4	-	-
Anderson AX3 (Sp.)	25.1	23	25	119.8	105	99	16.4	10	6
*Kaltenberg KX58 (2X)	25.1	---	---	147.2	---	---	19.6	-	-
Super Crost S27 (2X)	25.3	24	26	129.5	127	122	15.4	11	7
Amcorn 7480 (2X)	25.4	26	27	130.7	119	108	22.6	14	9
*ADI 197 (2X)	25.4	24	27	134.8	118	108	20.8	13	8
*Migro HP27 (2X)	25.9	---	---	137.0	---	---	16.6	-	-
Trojan TXS102 (2X)	25.9	24	27	127.0	128	121	31.0	17	11
ADI 306 (2X)	26.3	---	---	132.7	---	---	15.0	-	-
*Migro M-0301 (2X)	26.8	27	29	139.5	129	118	22.8	16	11
Average	22.8	22	25	120.1	119	112	16.9	11	8
Range	18.6 to 26.8	19 to 27	21 to 29	83.8 to 160.3	93 to 145	88 to 128	8.3 to 45.7	6 to 25	4 to 17

Table 13 (continued)

(Brand-Variety)	Moisture			Bushels per acre			% Stalk lodging		
	2		3	2		3	2		3
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
Least significant difference	1.5	0.8	0.6	13.1	7	5			

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 8	May 1	May 20
Harvested	November 5	October 30	October 14
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Beans	Beans	Beans	Sugar beets
Population	21,100	20,400	19,100
Rows	30"	30"	30"
Fertilizer	18-72-222	224-96-48	177-108-108
Soil test:			
pH	7.2	7.4	7.5
P	97 (high)	106 (very high)	106 (very high)
K	220 (high)	316 (very high)	297 (high)

Farm Cooperators: Walter Reinbold & Sons, Reese

County Extension Director: Norman Brown, Saginaw

Table 14

NORTH CENTRAL MICHIGAN
Huron County Trial - Grain
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk Lodging		
	2		3	2		3	2		3
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
Northrup King PX11 (2X)	20.3	---	---	81.6	---	---	0.8	-	-
P-A-G SX111 (2X)	21.1	19	---	81.5	90	---	0.7	1	-
Michigan 280 (4X)	21.2	19	21	95.4	95	96	3.7	5	4
Pioneer 3950 (MSX)	21.4	---	---	96.4	---	---	0.0	-	-
Golden Harvest H-2239 (MSX)	21.9	---	---	81.7	---	---	2.9	-	-
Funk G-4085 (3X)	22.0	---	---	84.1	---	---	0.0	-	-
Michigan 333-3X (3X)	22.1	20	22	99.3	97	107	2.3	2	1
Dairyland 1090 (2X)	22.4	21	---	84.5	97	---	9.2	5	-
Dairyland 1002 (2X)	22.6	---	---	82.6	---	---	0.0	-	-
Wolverine W133 (2X)	22.7	---	---	85.9	---	---	0.7	-	-
Cargill 810 (2X)	22.8	20	23	82.6	84	101	2.8	3	1
Michigan 3093 (3X)	22.9	21	22	99.6	109	117	0.0	1	2
Voris 2352 (Sp.)	22.9	---	---	89.5	---	---	3.0	-	-
Pride 2206 (2X)	23.0	---	---	91.5	---	---	2.1	-	-
Super Crost 1402 (2X)	23.0	21	---	78.4	85	---	8.1	6	-
Blaney B302 (2X)	23.1	22	24	101.0	102	115	2.7	2	1
Garno S-90 (2X)	23.3	22	---	104.8	113	---	0.8	1	-
Pioneer 3958 (2X)	23.3	21	23	85.7	99	101	0.0	0	1
Super Crost 1580 (2X)	23.7	---	---	99.5	---	---	2.3	-	-
Hyland HL-2450 (2X)	23.7	---	---	101.2	---	---	1.4	-	-
Golden Harvest H-2340 (2X)	23.8	22	24	92.3	99	110	2.8	2	3
P-A-G Exp. 263048 (2X)	23.9	---	---	111.1	---	---	0.0	-	-
Jacques JX99A (2X)	24.0	---	---	89.7	---	---	2.2	-	-
Trojan TXS 94 (2X)	24.1	23	25	106.2	120	122	0.0	0	1
Payco SX637 (2X)	24.2	---	---	109.9	---	---	0.7	-	-
Funk G-4141A (MSX)	24.2	---	---	107.4	---	---	1.4	-	-
Trojan T1008 (2X)	24.2	---	---	114.1	---	---	0.0	-	-
Cargill 838 (2X)	24.3	22	---	100.2	110	---	3.8	3	-
Anderson SSA (2X)	24.4	22	24	105.8	111	114	0.0	0	0
Michigan 3102 (2X)	24.4	22	23	114.5	119	124	0.7	0	0
Kaltenberg KX58 (2X)	24.4	---	---	120.6	---	---	0.7	-	-
Cargill 832 (2X)	24.4	22	---	106.0	106	---	1.7	3	-
Pioneer 3901 (2X)	24.4	22	24	106.8	114	129	0.0	0	1
Garno S-82 (2X)	24.4	---	---	93.0	---	---	3.0	-	-
Voris 2321 (Sp.)	24.4	---	---	80.5	---	---	0.7	-	-
Northrup King PX22 (2X)	24.6	---	---	95.6	---	---	0.0	-	-
Super Crost 1692 (2X)	24.7	22	24	94.7	108	105	0.7	3	4
Migro M-0105 (2X)	24.7	23	25	109.1	112	118	0.0	1	2
Asgrow RX53 (2X)	24.8	23	25	115.0	120	129	0.0	1	1
Super Crost 78015 (2X)	24.8	---	---	111.9	---	---	0.0	-	-

(continued)

Table 14 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk Lodging		
	2		3	2		3	2		3
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
Amcorn 4010 (2X)	24.9	---	---	87.7	---	---	0.0	-	-
Migro HP16 (2X)	24.9	---	---	82.2	---	---	1.4	-	-
DeKalb XL12 (2X)	25.0	22	24	111.2	103	114	0.7	2	2
Wolverine W126 (2X)	25.1	---	---	86.2	---	---	2.3	-	-
Great Lakes GL-352 (MSX)	25.1	---	---	104.2	---	---	3.3	-	-
Northrup King PX485 (3X)	25.1	---	---	115.5	---	---	0.0	-	-
Super Crost 1950 (2X)	25.1	23	---	111.0	115	---	3.6	3	-
Payco SX622 (3X)	25.2	23	---	81.8	102	---	1.5	4	-
P-A-G SX177 (2X)	25.3	23	25	90.2	103	113	3.8	3	2
Great Lakes GL-452 (2X)	25.3	---	---	108.0	---	---	1.4	-	-
ADI 195 (2X)	25.3	23	---	101.8	112	---	1.5	2	-
P-A-G SX189 (2X)	25.3	24	26	96.6	110	125	0.0	0	0
Acco UC334 (3X)	25.5	24	26	107.4	117	123	0.0	0	1
Michigan 3953 (3X)	25.5	23	25	102.9	106	116	2.1	1	2
*Migro HP20 (2X)	25.6	---	---	126.6	---	---	0.0	-	-
Northrup King PX24 (2X)	25.6	---	---	114.3	---	---	0.0	-	-
Sohigro S22 (2X)	25.6	22	---	93.0	111	---	2.2	1	-
Migro M-0101 (2X)	25.6	22	24	119.1	117	121	2.1	2	2
Funk G-4224 (MSX)	25.7	23	---	108.0	100	---	0.0	2	-
Golden Harvest H-2373 (2X)	25.7	23	25	93.6	100	112	0.7	0	2
DeKalb XL13 (2X)	25.7	---	---	103.5	---	---	0.0	-	-
*Wolverine W166 (2X)	25.9	24	26	129.1	127	133	0.0	1	2
Super Crost 2350 (2X)	25.9	24	26	118.5	121	125	0.0	0	0
*Michigan 407-2X (2X)	25.9	23	25	127.5	127	134	2.9	2	3
Dairyland 1099 (2X)	26.1	23	---	102.7	113	---	3.4	2	-
*Pride 2259 (2X)	26.3	---	---	124.2	---	---	0.0	-	-
Golden Harvest H-2370 (2X)	26.3	24	---	113.9	109	---	0.7	1	-
*Voriss 2372 (2X)	26.5	24	26	125.9	126	133	3.4	3	2
Gutwein 2140 (2X)	26.8	24	---	92.7	113	---	0.0	0	-
Gutwein 112 (3X)	27.1	25	---	95.3	98	---	0.0	0	-
Pride R319 (3X)	27.1	---	---	118.6	---	---	0.0	-	-
DeKalb XL25 (2X)	27.1	25	---	109.8	106	---	0.0	1	-
*Pioneer 3780 (2X)	27.1	24	27	123.4	124	137	2.1	2	1
Gutwein 2075 (2X)	27.2	24	---	93.0	100	---	2.1	2	-
*Kaltenberg KX54 (2X)	27.3	---	---	126.5	---	---	1.4	-	-
Blaney B506 (2X)	27.3	24	---	109.4	119	---	0.0	0	-
*DeKalb XL30a (2X)	27.4	---	---	135.0	---	---	0.0	-	-
Migro M-2022X (2X)	27.5	25	28	110.4	117	124	0.7	1	1
Michigan 4122 (2X)	27.5	25	26	120.2	120	131	0.0	0	1
Amcorn 4100 (2X)	28.2	25	26	98.4	110	114	0.0	2	2
Payco SX799 (2X)	28.2	---	---	119.7	---	---	0.0	-	-
Funk G-4272 (3X)	28.3	26	28	109.4	117	122	0.7	1	1
*DeKalb XL23 (2X)	28.4	---	---	124.7	---	---	0.0	-	-
Super Crost 527 (2X)	28.4	26	28	104.1	114	126	0.0	1	0
*Blaney B605-wx (2X)	28.4	26	28	135.9	129	129	0.7	2	1
Michigan 5912 (2X)	28.5	26	29	120.4	125	140	0.0	1	0
*O's Gold SX106 (2X)	28.5	---	---	132.6	---	---	0.0	-	-
Acco UC3002 (2X)	28.6	---	---	116.5	---	---	0.0	-	-
*Michigan 5802 (2X)	28.6	26	28	130.2	127	140	0.0	0	1
Anderson AX-3 (Sp.)	28.9	26	27	105.2	106	107	0.0	0	0
*Asgrow RX2345 (2X)	29.0	26	---	124.3	124	---	0.0	1	-
Amcorn 7300 (2X)	29.0	26	27	109.2	112	123	0.0	0	0
Migro HP27 (2X)	29.0	---	---	111.1	---	---	0.0	-	-
Migro HP23R (2X)	29.0	---	---	120.3	---	---	0.0	-	-
*Blaney B606E-wx (2X)	29.3	28	---	131.8	127	---	0.7	0	-
*DeKalb XL42 (2X)	29.3	---	---	124.8	---	---	0.0	-	-
*Sohigro S39 (2X)	29.4	27	---	128.6	129	---	0.0	0	-
Gutwein 46B (2X)	29.5	27	29	106.3	117	127	0.0	0	0
*Payco SX844 (2X)	29.6	---	---	120.9	---	---	0.7	-	-
*Voriss 2422 (2X)	29.7	28	---	123.2	128	---	0.0	1	-
*Michigan 5922 (2X)	29.8	---	---	139.1	---	---	0.0	-	-
*Wolverine W174A (2X)	29.9	---	---	132.3	---	---	0.0	-	-
*Golden Harvest H-2445 (MSX)	30.0	27	---	139.4	134	---	0.0	0	-
*Trojan TXS102 (2X)	30.0	29	30	121.5	116	130	2.2	3	3
*Asgrow RX544 (MSX)	30.0	---	---	123.5	---	---	0.0	-	-
*Northrup King PX37 (2X)	30.2	---	---	124.6	---	---	0.0	-	-
*Garno S-100 (2X)	30.3	27	---	122.3	123	---	0.0	0	-
Migro M-3020 (4X)	30.4	28	29	119.2	110	123	0.0	3	2
*ADI 315 (2X)	31.2	29	---	125.0	129	---	0.0	0	-
ADI 325 (2X)	31.3	---	---	108.3	---	---	2.1	-	-
Acco UC3301A (2X)	31.3	28	30	110.6	118	129	0.0	2	2
Migro M-0301 (2X)	31.4	29	31	115.6	124	131	0.0	0	0
Amcorn 7480 (2X)	31.4	28	29	118.5	120	124	0.0	0	0
*Golden Harvest H-2448 (2X)	31.8	---	---	131.4	---	---	0.0	-	-
*Jacques JX177 (2X)	31.9	29	---	125.6	119	---	0.0	0	-

(continued)

Table 14 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk Lodging		
	1979	2	3	1979	2	3	1979	2	3
		yr.	yr.		yr.	yr.		yr.	yr.
ADI 197 (2X)	31.9	29	---	118.0	120	---	0.0	0	-
Anderson Silo Filler (4X)	31.9	30	---	101.9	93	---	0.7	1	-
*Migro M-2018X (2X)	32.1	29	30	128.9	122	132	0.0	0	0
Funk G-4323 (MSX)	32.6	---	---	116.0	---	---	0.7	-	-
ADI 323 (2X)	33.2	29	---	115.4	104	---	0.0	1	-
Golden Harvest H-2500 (2X)	34.8	33	33	116.9	116	129	0.0	0	2
Average	26.6	25	26	108.5	112	122	0.9	1	1
Range	20.3 to 34.8	19 to 33	21 to 33	78.4 to 139.4	84 to 134	95 to 141	0.0 to 9.2	0 to 6	0 to 4
Least significant difference	1.6	1.0	0.8	12.3	9	5	-	-	-

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 15	April 27	April 30
Harvested	November 9	November 1	October 25
Soil type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous crop	Corn	Corn	Corn
Population	21,000	20,800	21,100
Rows	30"	30"	30"
Fertilizer	195-95-204	160-105-208	182-92-202
Soil test:			
pH	7.7	7.2	7.2
P	82 (high)	47 (medium)	83 (high)
K	228 (high)	208 (medium)	288 (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 - 1979, 1978, 1977

Hybrid (Brand-variety)	% Dry matter			Tons per acre			Tons per acre		
	1979	2	3	1979	2	3	1979	2	3
		yr.	yr.		yr.	yr.		yr.	yr.
Northrup King PX11 (2X)	48.9	---	---	9.5	---	---	4.6	---	---
Super Crost 1402 (2X)	48.0	53.6	---	10.8	10.9	---	5.2	5.9	---
Cargill 810 (2X)	47.4	48.8	47.1	11.2	10.9	12.7	5.3	5.3	5.9
P-A-G SX111 (2X)	47.2	52.9	---	12.5	11.4	---	5.9	6.0	---
Pioneer 3950 (MSX)	47.1	---	---	12.6	---	---	5.9	---	---
Michigan 280 (4X)	46.7	52.6	50.8	12.0	11.1	12.5	5.6	5.8	6.2
Funk G-4085 (3X)	45.1	---	---	11.0	---	---	4.9	---	---
Golden Harvest H-2239 (MSX)	44.8	---	---	13.4	---	---	6.0	---	---
Great Lakes GL-352 (MSX)	43.9	---	---	12.5	---	---	5.5	---	---
Pioneer 3958 (2X)	43.5	48.4	48.1	13.1	12.6	13.4	5.7	6.1	6.4
Payco 3X622 (3X)	42.8	46.7	---	11.8	12.4	---	5.1	5.8	---
Dairyland 1002 (2X)	41.9	---	---	10.4	---	---	4.4	---	---
Michigan 3093 (3X)	41.7	47.5	45.7	13.7	13.2	14.6	5.7	6.2	6.6
Pride 2206 (2X)	41.5	---	---	14.1	---	---	5.8	---	---
Super Crost 1580 (2X)	41.1	---	---	12.0	---	---	4.9	---	---
Migro HP16 (2X)	41.1	---	---	15.5	---	---	6.4	---	---
Golden Harvest H-2370 (2X)	40.9	41.6	39.0	12.0	13.4	15.8	4.9	5.6	6.0
Michigan 333-3X (3X)	40.9	45.9	45.6	14.7	13.8	14.5	6.0	6.3	6.6
ADI 195 (2X)	40.8	42.4	---	14.2	13.1	---	5.8	5.5	---
Voris 2352 (Sp.)	40.6	---	---	12.6	---	---	5.1	---	---
Trojan TX594 (2X)	40.6	42.5	41.9	14.6	15.4	16.5	5.9	6.5	6.9
Migro M-0101 (2X)	40.6	45.1	43.7	14.8	14.9	15.9	6.0	6.7	6.9
Wolverine W133 (2X)	40.2	---	---	12.2	---	---	5.0	---	---
Golden Harvest H-2340 (2X)	40.0	42.4	40.0	12.8	13.3	16.8	5.1	5.6	6.5
Super Crost 1692 (2X)	39.2	44.1	43.8	15.4	14.2	15.2	6.1	6.2	6.6

(continued)

Table 15 (continued)

Hybrid (Brand-variety)	% Dry matter			Tons per acre			Tons per acre		
	1979	2	3	1979	2	3	1979	2	3
		yr.	yr.		yr.	yr.		yr.	yr.
Anderson SSA (2X)	39.2	45.1	41.1	16.4	14.7	16.9	6.4	6.5	6.7
Garno S-82 (2X)	38.9	---	---	13.1	---	---	5.1	---	---
Michigan 3102 (2X)	38.7	43.6	42.1	16.0	15.4	17.3	6.2	6.7	7.3
Blaney B302 (2X)	38.3	44.3	---	16.7	14.9	---	6.4	6.5	---
Northrup King PX22 (2X)	37.9	---	---	17.1	---	---	6.5	---	---
Funk G-4141A (MSX)	37.6	---	---	18.4	---	---	6.9	---	---
Hyland HL-2450 (2X)	37.1	---	---	15.9	---	---	5.9	---	---
DeKalb XL13 (2X)	37.1	---	---	15.8	---	---	5.9	---	---
Blaney B302 (2X)	37.0	44.0	43.4	13.1	13.3	14.5	4.8	5.8	6.3
P-A-G Exp. 263048 (2X)	36.6	---	---	18.1	---	---	6.6	---	---
Great Lakes GL-452 (2X)	36.5	---	---	16.4	---	---	6.0	---	---
Wolverine W126 (2X)	36.3	---	---	15.1	---	---	5.4	---	---
Northrup King PX24 (2X)	36.2	---	---	15.9	---	---	5.7	---	---
Amcorn 4010 (2X)	35.9	---	---	17.9	---	---	6.4	---	---
Pride R319 (3X)	35.9	---	---	15.9	---	---	5.7	---	---
Cargill 832 (2X)	35.8	41.2	---	14.0	13.8	---	5.0	5.6	---
Supercroft 78015 (2X)	35.8	---	---	15.9	---	---	5.6	---	---
Funk G-4272 (3X)	35.8	41.5	39.3	16.4	15.2	18.0	5.9	6.2	6.9
Acco UC334 (3X)	35.7	36.2	35.4	17.8	18.3	20.2	6.3	6.6	7.1
Garno S-90 (2X)	35.4	41.1	---	19.3	17.6	---	6.8	7.1	---
Anderson AX-3 (Sp.)	35.4	38.6	37.3	15.9	15.3	16.8	5.4	5.8	6.1
Dairyland 1090 (2X)	35.4	46.1	---	15.9	13.5	---	5.5	5.9	---
Trojan T1008 (2X)	35.3	---	---	21.1	---	---	7.4	---	---
Dairyland 1099 (2X)	35.3	42.0	---	18.3	15.8	---	6.4	6.4	---
Pioneer 3901 (2X)	35.3	42.1	39.8	19.8	17.1	19.9	7.0	7.0	7.7
Funk G-4224 (MSX)	35.0	41.4	---	20.5	16.7	---	7.2	6.7	---
Michigan 3953 (3X)	35.0	42.1	40.3	18.6	16.3	18.0	6.5	6.7	7.1
Cargill 838 (2X)	34.9	39.5	---	18.8	17.0	---	6.6	6.6	---
Super Crost S2350 (2X)	34.7	39.2	38.5	20.3	18.8	18.2	7.0	7.3	6.9
Payco SX637 (2X)	34.5	---	---	18.1	---	---	6.3	---	---
P-A-G SX177 (2X)	34.5	40.9	38.5	14.5	14.1	17.5	5.0	5.7	6.5
Voris 2321 (Sp.)	34.4	---	---	13.7	---	---	4.7	---	---
Super Crost S27 (2X)	34.4	38.4	37.3	15.8	17.2	20.1	5.3	6.6	7.4
Super Crost 1950 (2X)	34.2	40.3	---	17.4	16.9	---	6.0	6.8	---
Voris 2372 (2X)	34.1	39.1	38.4	19.9	17.7	19.2	6.8	6.8	7.2
Migro M-0105 (2X)	34.0	36.3	36.7	20.3	18.1	19.9	6.9	6.5	7.3
Pride 2259 (2X)	34.0	---	---	17.7	---	---	6.0	---	---
DeKalb XL25 (2X)	33.9	34.8	---	15.9	17.0	---	5.4	5.9	---
Gutwein 112 (3X)	33.6	40.3	---	16.2	15.8	---	5.4	6.3	---
Northrup King PX485 (3X)	33.5	---	---	16.0	---	---	5.4	---	---
DeKalb XL23 (2X)	33.5	---	---	18.5	---	---	6.2	---	---
Michigan 407-2X (2X)	33.5	39.0	37.9	18.5	17.1	19.0	6.2	6.6	7.1
DeKalb XL12 (2X)	33.3	40.8	40.5	16.2	14.1	15.6	5.4	5.6	6.2
Trojan TX5102 (2X)	33.3	36.9	36.4	21.9	19.7	20.2	7.3	7.2	7.3
Michigan 4122 (2X)	33.2	39.9	39.1	19.9	17.5	19.2	6.6	7.0	7.5
Voris 2422 (2X)	33.2	34.6	---	21.1	20.4	---	7.0	7.0	---
Migro HP20 (2X)	33.0	---	---	15.2	---	---	5.0	---	---
Asgrow RX53 (2X)	32.9	37.2	36.7	17.4	16.3	19.1	5.8	6.0	7.0
Golden Harvest H-2373 (2X)	32.9	39.9	---	19.7	17.2	---	6.4	6.6	---
Pioneer 3780 (2X)	32.6	37.4	36.7	19.3	17.9	19.3	6.3	6.6	7.0
DeKalb XL42 (2X)	32.5	---	---	18.3	---	---	5.9	---	---
Blaney B506 (2X)	32.3	39.9	---	17.4	15.6	---	5.6	6.1	---
Blaney B605-wx (2X)	32.3	37.4	35.7	21.2	19.4	20.9	6.8	7.1	7.3
Gutwein 2075 (2X)	32.1	38.2	---	18.6	16.8	---	6.0	6.3	---
Payco SX799 (2X)	32.1	---	---	19.9	---	---	6.4	---	---
ADI 197 (2X)	31.5	38.0	---	22.1	17.6	---	7.0	6.2	---
Michigan 5802 (2X)	31.5	37.2	36.3	20.6	19.1	21.1	6.5	7.0	7.6
P-A-G SX189 (2X)	31.4	37.9	36.9	19.7	18.0	19.5	6.2	6.7	7.1
Kaltenberg KX54 (2X)	31.3	---	---	20.6	---	---	6.4	---	---
Blaney B606E-WX (2X)	31.2	36.3	---	21.9	19.2	---	6.9	6.8	---
Michigan 5912 (2X)	31.0	35.3	34.7	20.3	18.9	21.6	6.3	6.6	7.4
Amcorn 4100 (2X)	31.0	33.9	33.5	17.2	17.3	18.5	5.4	5.9	6.2
Gutwein 2140 (2X)	31.0	38.8	---	21.5	19.0	---	6.7	7.2	---
Super Crost 2880 (2X)	30.9	34.4	---	21.3	19.2	---	6.6	6.5	---
Asgrow RX2345 (2X)	30.7	33.4	---	18.6	17.8	---	5.6	5.8	---
Wolverine W166 (2X)	30.7	35.2	36.8	19.3	19.1	18.0	6.0	6.7	6.6
Migro M-2022X (2X)	30.7	36.1	35.4	19.8	17.8	19.6	5.9	6.2	6.8
Michigan 5922 (2X)	30.7	---	---	22.1	---	---	6.8	---	---
Migro M-3020 (4X)	30.7	32.6	32.1	20.0	19.8	22.7	6.1	6.4	7.2
Acco UC3002 (2X)	30.5	---	---	19.7	---	---	6.0	---	---

(continued)

Table 15 (continued)

Hybrid (Brand-variety)	% Dry matter		Tons per acre					
			Green weight			Dry weight		
	1979	2 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Migro M-0301 (2X)	30.3	32.4	32.4	21.5	20.8	22.4	6.5	6.7
Acco UC3301A (2X)	30.3	33.0	31.6	18.5	19.4	23.2	5.6	6.4
Jacques JX177 (2X)	30.2	33.1	---	18.8	18.1	---	5.7	6.0
Northrup King PX37 (2X)	30.2	---	---	18.8	---	---	5.7	---
DeKalb XL30a (2X)	30.2	---	---	---	---	---	5.8	---
O's Gold SX1106 (2X)	30.1	---	---	22.3	---	---	6.7	---
Jacques JX99A (2X)	30.0	---	---	17.3	---	---	5.2	---
Kaltenberg KX58 (2X)	29.7	---	---	23.3	---	---	7.0	---
Amcorn 7300 (2X)	29.2	33.2	33.0	19.1	18.0	19.0	5.6	5.9
Migro HP23R (2X)	29.2	---	---	20.1	---	---	5.9	---
Wolverine W174A (2X)	28.9	---	---	21.1	---	---	6.1	---
Golden Harvest H-2488 (2X)	28.9	---	---	22.7	---	---	6.6	---
Amcorn 7480 (2X)	28.7	32.7	32.6	23.1	20.0	21.7	6.6	6.4
Gutwein 46B (2X)	28.6	32.9	32.5	22.7	20.3	22.0	6.5	6.6
Garno S-100 (2X)	28.6	32.9	---	20.5	18.5	---	5.9	6.0
Super Crost 2470 (2X)	28.4	33.6	32.7	22.6	20.4	22.2	6.4	6.7
Golden Harvest H-2445 (MSX)	28.4	34.1	---	20.0	19.0	---	5.7	6.4
Asgrow RX544 (MSX)	28.0	---	---	19.8	---	---	5.6	---
ADI 323 (2X)	28.0	33.3	---	17.0	17.1	---	4.7	5.6
Funk G-4323 (MSX)	27.7	33.3	---	21.9	18.8	---	6.1	6.1
Migro M-2018X (2X)	27.6	33.3	32.2	20.8	19.1	22.2	5.7	6.2
ADI 325 (2X)	27.2	---	---	24.0	---	---	6.5	---
Sohigro S39 (2X)	26.5	30.7	---	22.0	19.6	---	5.8	5.9
Golden Harvest H-2500 (2X)	26.2	28.8	29.0	23.0	21.5	23.6	6.0	6.1
ADI 315 (2X)	25.9	30.5	---	21.2	21.5	---	5.5	6.6
Payco SX844 (2X)	25.8	---	---	20.3	---	---	5.2	---
Anderson Silo Filler (4X)	25.7	28.3	---	22.4	21.7	---	5.8	6.1
Migro HP27 (2X)	24.9	---	---	22.8	---	---	5.7	---
Average	34.5	38.9	38.1	17.4	16.8	18.5	5.8	6.3
Range	24.9 to 48.9	28.3 to 53.6	29.0 to 50.8	9.5 to 24.0	10.9 to 21.7	12.5 to 23.6	4.4 to 7.3	5.3 to 7.7
Least significant difference	2.6	1.7	1.2	1.6	1.1	1.0	0.6	0.5
Planted	1979	1978	1977					
Harvested	May 15	April 27	April 30					
Soil type	September 20	September 13	September 12					
Previous crop	Brookston clay loam	Brookston clay loam	Brookston clay loam					
Population	Corn	Corn	Corn					
Rows	21,300	20,100	20,700					
Fertilizer	30"	30"	30"					
Soil test: pH	195-95-204	160-105-208	189-92-202					
P	7.7	7.2	7.2					
K	82 (high)	47 (medium)	83 (high)					
	228 (high)	208 (medium)	288 (high)					

Farm Cooperator: William McCrea, Bad Axe

Extension Livestock Agent: Lee Warschefsky, Bad Axe

Table 16

NORTH CENTRAL MICHIGAN
Isabella County Trial
One and Two Year Averages - 1979, 1978

Hybrid (Brand-Variety)	% Moisture		Bushels per acre		% Stalk Lodging	
	1979	2 yr.	1979	2 yr.	1979	2 yr.
DeKalb XL11 (2X)	21.5	---	77.3	---	6.4	-
Dairyland 1082 (2X)	21.6	21	56.5	73	6.0	3
Dairyland 1090 (2X)	21.7	21	68.5	73	4.8	2
Pride R144 (3X)	21.9	21	60.5	79	2.1	1
Michigan 280 (4X)	21.9	20	83.5	87	5.5	5
Pride 2206 (2X)	21.9	---	77.4	---	4.9	-
Funk G-4085 (3X)	22.0	---	68.8	---	7.5	-
Wolverine W133 (2X)	22.1	---	72.7	---	9.7	-
Great Lakes GL-352(MSX)	22.1	---	70.6	---	4.1	-
Pioneer 3958 (2X)	22.2	---	70.9	---	2.0	-

Table 16 (continued)

Hybrid (Brand-Variety)	% Moisture		Bushels per acre		% Stalk Lodging	
	1979	2 yr.	1979	2 yr.	1979	2 yr.
Trojan T929 (2X)	22.4	---	60.2	---	11.0	-
Michigan 3093 (3X)	22.6	21	74.8	83	6.9	4
Pioneer 3950 (MSX)	23.0	---	78.3	---	1.4	-
Migro M-0101 (2X)	23.0	22	74.1	100	4.8	3
Michigan 333-3X (3X)	23.0	21	81.2	95	4.3	3
McKenzie 840 (3X)	23.2	---	58.7	---	8.6	-
Funk G-4141A (MSX)	23.3	---	64.9	---	1.4	-
Dairyland 1099 (2X)	23.4	---	76.1	---	6.8	-
Funk G-4195 (3X)	23.7	---	62.2	---	4.1	-
Wolverine W126 (2X)	23.8	---	74.4	---	5.4	-
*Garno S-90 (2X)	24.0	23	84.1	110	2.7	2
Voris 2352 (Sp.)	24.0	---	62.5	---	1.4	-
*Great Lakes GL-452(2X)	24.2	---	88.0	---	4.9	-
*Trojan TXS94 (2X)	24.2	22	87.1	95	1.4	1
*Migro M-0105 (2X)	24.4	24	83.8	98	0.7	1
*Pioneer 3901 (2X)	24.7	23	90.5	107	2.1	2
McKenzie 901 (3X)	24.8	---	81.6	---	4.7	-
Pride R319 (3X)	25.0	---	77.8	---	0.7	-
Sohigro S22 (2X)	25.0	23	63.2	87	7.0	5
*Michigan 3102 (2X)	25.1	23	86.0	101	3.5	2
DeKalb XL13 (2X)	25.2	---	64.0	---	0.7	-
Blaney B401 (2X)	25.3	23	74.8	97	3.4	2
*Migro HP16 (2X)	25.3	---	97.2	---	3.4	-
*Voriss 2381 (2X)	25.4	---	84.4	---	0.7	-
*Acco UC1905 (2X)	25.5	---	84.1	---	2.0	-
Blaney B302 (2X)	25.6	23	61.8	87	2.1	2
*Voriss 2372 (2X)	25.7	24	84.2	101	4.9	3
Farm Bureau FB2820 (MSX)	25.9	---	67.0	---	1.4	-
Pioneer 3780 (2X)	26.1	24	77.5	105	3.3	3
Amcorn 4100 (2X)	26.1	---	65.4	---	0.7	-
*Amcorn 7300 (2X)	26.1	---	87.1	---	4.2	-
*Michigan 407-2X (2X)	26.2	24	86.4	100	3.8	2
Funk G-4272 (3X)	26.2	25	71.8	91	5.1	4
Funk G-4224 (MSX)	26.3	24	72.8	95	3.4	2
Dairyland 1005 (2X)	26.3	---	80.0	---	1.4	-
Blaney B506 (2X)	26.6	24	80.1	97	2.1	3
Michigan 3953 (3X)	26.6	24	72.2	88	5.2	3
*Migro HP20 (2X)	26.7	---	83.6	---	2.1	-
Amcorn 4010 (2X)	26.7	---	79.6	---	3.7	-
Wolverine W166 (2X)	26.8	25	69.3	94	2.1	1
McKenzie 950 (MSX)	26.8	---	62.3	---	0.7	-
Acco UC2851 (2X)	27.0	25	76.2	99	2.7	2
DeKalb XL15 (2X)	27.3	---	75.2	---	1.4	-
Blaney B507 (2X)	27.3	---	60.4	---	0.7	-
Michigan 4122 (2X)	27.4	25	83.3	107	4.8	2
Migro M-2022X (2X)	27.5	---	72.1	---	4.1	-
*Michigan 5802 (2X)	27.6	26	98.8	107	2.7	2
Dairyland 1007B (2X)	28.7	---	79.3	---	0.7	-
*DeKalb XL32a (2X)	29.1	---	94.6	---	0.0	-
Migro HP23R (2X)	29.2	---	73.4	---	0.7	-
*Golden Harvest H-2450 (2X)	29.5	---	100.4	---	5.5	-
McKenzie 1001 (MSX)	29.8	---	62.6	---	1.4	-
Asgrow RX544 (MSX)	29.9	---	67.7	---	2.1	-
Amcorn 7480 (2X)	30.1	27	79.0	97	0.0	0
Golden Harvest H-2448 (2X)	30.4	---	78.0	---	2.1	-
Michigan 5912 (2X)	30.4	28	82.9	104	2.0	1
Michigan 5922 (2X)	30.6	---	79.5	---	0.0	-
DeKalb XL23 (2X)	30.7	---	78.0	---	2.0	-
Migro M-2018X (2X)	30.8	28	75.3	88	1.4	1
Migro HP27 (2X)	32.4	---	59.6	---	1.4	-
Migro M-0301 (2X)	33.1	30	58.7	88	11.6	6
Average	26.0	24	75.2	95	3.3	2
Range	21.4 to 33.1	20 to 30	56.5 to 100.4	73 to 110	0 to 11.6	0 to 6

(continued)

(continued)

Table 16 (continued)

Hybrid (Brand-Variety)	% Moisture		Bushels per acre		% Stalk Lodging	
	1979	2 yr.	1979	2 yr.	1979	2 yr.
Least significant difference	1.6	1.0	8.2	7.0	-	-

*Significantly better than average yield in 1979.

	1979	1978
Planted	May 21	May 10
Harvested	November 19	November 7
Soil type	Selkirk loam	Selkirk loam
Previous crop	Corn	Corn
Population	20,600	18,400
Rows	38"	38"
Fertilizer	146-156-152	133-77-140
Soil test: pH	7.4	---
P	80 (high)	---
K	140 (low)	---

Farm Cooperator: Floyd Hauck, Rosebush

County Extension Director: Lyle Thompson, Mt. Pleasant

Table 17

NORTH CENTRAL MICHIGAN
Montcalm County Trial - Irrigated vs. Not Irrigated
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels per acre						% Stalk lodging					
	1979	2 yrs. yrs.		1979		2 years		3 years		1979		2 years		3 years	
				Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig
Hyland HL-2217	21.2	---	---	66.9	45.1	---	---	---	---	32.8	30.8	-	-	-	-
McKenzie 901 (3X)	22.4	---	---	72.3	46.2	---	---	---	---	14.3	9.3	-	-	-	-
Hyland HL-2430 (2X)	22.5	---	---	95.9	58.9	---	---	---	---	11.0	6.4	-	-	-	-
McKenzie 840 (3X)	22.6	---	---	70.9	42.0	---	---	---	---	26.4	15.0	-	-	-	-
Michigan 280 (4X)	22.7	21	22	90.8	52.8	91	61	94	61	17.6	14.8	13	12	12	9
Dairyland 1095 (2X)	22.7	---	---	92.4	51.2	---	---	---	---	14.1	7.9	-	-	-	-
Select 1400 (MSX)	22.7	---	---	83.1	51.3	---	---	---	---	17.8	12.6	-	-	-	-
Pioneer 3950 (3X)	22.9	---	---	110.8	60.2	---	---	---	---	15.0	6.7	-	-	-	-
Hyland HL-2418 (2X)	23.1	---	---	73.6	43.6	---	---	---	---	38.0	42.1	-	-	-	-
Hyland HL-2442 (2X)	23.1	---	---	104.9	59.0	---	---	---	---	12.7	7.3	-	-	-	-
Michigan 333-3X (3X)	23.2	21	22	102.2	63.1	118	76	115	73	10.5	11.5	7	7	5	5
Super Crost 1402 (2X)	23.5	22	---	77.9	44.8	85	53	---	---	27.5	17.3	17	10	-	-
Migro M-0101 (2X)	23.5	21	23	102.0	63.1	119	72	116	72	9.0	9.7	7	5	8	5
Funk G-4195 (3X)	23.7	---	---	94.9	68.9	---	---	---	---	23.9	13.5	-	-	-	-
Michigan 3093 (3X)	23.7	22	23	94.8	58.3	109	73	111	70	18.5	11.7	11	8	8	6
*+Garno S-90 (2X)	23.7	23	---	123.0	91.5	133	91	---	---	13.8	8.3	7	4	-	-
P-A-G Exp. 263048 (2X)	23.7	---	---	112.8	73.6	---	---	---	---	12.6	10.3	-	-	-	-
Blaney B302-wx (2X)	23.9	23	---	99.3	65.5	115	73	---	---	20.9	28.8	12	15	-	-
Amcorn 4010 (2X)	24.0	---	---	90.3	54.7	---	---	---	---	21.5	12.6	-	-	-	-
DeKalb XL13 (2X)	24.0	---	---	94.3	66.4	---	---	---	---	47.1	28.1	-	-	-	-
Pride 2206 (2X)	24.0	---	---	112.4	63.0	---	---	---	---	14.8	11.3	-	-	-	-
Michigan 3102 (2X)	24.0	23	25	111.8	70.5	146	86	139	81	9.8	8.0	6	6	5	4
Super Crost 1950 (2X)	24.5	23	---	109.9	57.0	138	78	---	---	15.2	14.7	11	10	-	-
*+Pioneer 3901 (2X)	24.5	23	25	136.1	94.6	150	98	149	93	7.2	5.7	4	3	4	2
Migro M-0105 (2X)	24.5	24	26	98.9	72.4	125	85	124	81	17.5	11.8	12	8	12	6
Select 2200 (MSX)	24.5	---	---	109.6	73.1	---	---	---	---	21.9	19.9	-	-	-	-
Acco UC1151 (2X)	24.6	23	---	82.7	55.0	117	70	---	---	21.3	11.0	15	7	-	-
DeKalb XL15 (2X)	24.9	23	---	109.9	73.4	115	74	---	---	7.5	2.8	6	3	-	-
Super Crost 1692 (2X)	24.9	23	25	104.2	72.8	114	78	110	75	11.7	13.6	8	7	5	5
McKenzie 950 (MSX)	25.0	---	---	104.9	69.9	---	---	---	---	9.2	14.1	-	-	-	-

(continued)

Table 17 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre						% Stalk lodging					
	1979	2 yrs.	3 yrs.	1979		2 years		3 years		1979		2 years		3 years	
				Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig
Great Lakes GL-452 (2X)	25.0	---	---	106.1	62.3	---	---	---	---	19.9	16.7	-	-	-	-
Super Crost 1580 (2X)	25.0	---	---	96.1	53.4	---	---	---	---	19.7	9.1	-	-	-	-
Super Crost 78015 (2X)	25.1	---	---	93.8	49.5	---	---	---	---	18.7	9.0	-	-	-	-
Hyland HL-2440 (2X)	25.1	---	---	100.5	59.1	---	---	---	---	18.5	14.6	-	-	-	-
Funk G-4224 (MSX)	25.1	24	---	110.0	59.3	125	70	---	---	6.2	10.0	8	6	-	-
Pioneer 3958 (2X)	25.1	23	25	108.9	73.2	117	81	114	73	8.4	8.0	6	4	5	3
**Michigan 407-2X (2X)	25.1	24	26	132.3	85.8	147	94	146	91	12.4	8.6	8	5	6	3
Migro HP16 (2X)	25.1	---	---	104.2	59.4	---	---	---	---	17.6	11.3	-	-	-	-
P-A-G SX189 (2X)	25.3	24	---	89.2	63.5	118	74	---	---	17.9	11.3	12	7	-	-
Dairyland 1099 (2X)	25.4	---	---	103.9	65.1	---	---	---	---	25.2	14.2	-	-	-	-
**Super Crost 2350 (2X)	25.5	24	26	125.5	74.0	155	91	141	85	11.0	6.5	8	4	7	3
Customaize CFS144 (2X)	25.8	---	---	108.6	59.6	---	---	---	---	30.1	18.8	-	-	-	-
Michigan 3953 (3X)	25.9	24	25	114.3	72.3	128	78	128	75	15.2	12.9	10	8	7	7
**Pioneer 3780 (2X)	26.4	24	26	120.6	90.3	151	97	151	94	18.4	8.0	14	5	10	3
**ADI 232 (2X)	26.4	24	25	134.4	75.6	149	88	138	77	15.8	10.5	12	9	8	7
**Asgrow RX2345 (2X)	26.4	---	---	126.8	78.4	---	---	---	---	19.0	8.1	-	-	-	-
**Blaney B507 (2X)	26.4	---	---	125.8	79.0	---	---	---	---	12.3	9.9	-	-	-	-
Migro M-2022X (2X)	26.5	25	27	113.1	73.0	141	87	139	85	5.1	10.2	5	5	5	4
**Select 3000 (2X)	26.7	---	---	132.1	79.0	---	---	---	---	9.8	8.0	-	-	-	-
Funk G-4272 (3X)	27.1	25	27	115.7	66.9	132	77	126	72	21.0	12.3	14	9	12	7
**DeKalb XL23 (2X)	27.1	---	---	121.3	73.9	---	---	---	---	4.0	5.4	-	-	-	-
+Michigan 4122 (2X)	27.1	25	26	119.5	79.3	131	88	133	84	12.2	7.4	9	4	7	4
Blaney B506 (2X)	27.4	25	27	103.5	56.2	132	79	132	76	9.4	9.3	6	5	7	4
Amcorn 4100 (2X)	27.5	25	27	101.3	56.3	123	72	122	73	9.0	6.6	7	4	7	5
**Customaize CFS1000 (2X)	27.6	24	---	127.3	80.0	129	79	---	---	4.6	3.5	7	4	-	-
Kaltenberg KX58 (2X)	27.7	---	---	110.2	67.3	---	---	---	---	16.8	15.3	-	-	-	-
Acco UC2301 (2X)	27.7	25	27	95.3	63.6	125	77	124	73	6.1	6.1	5	7	5	6
Kaltenberg KX54 (2X)	28.0	---	---	113.8	69.4	---	---	---	---	8.8	8.0	-	-	-	-
Migro HP23R (2X)	28.1	---	---	114.5	63.2	---	---	---	---	12.3	6.3	-	-	-	-
Migro HP20 (2X)	28.1	---	---	114.4	67.2	---	---	---	---	22.2	14.0	-	-	-	-
**Blaney B606 (2X)	28.4	25	28	142.0	85.2	146	90	138	86	2.2	1.4	2	1	2	1
Cargill 872 (2X)	28.8	---	---	101.5	62.5	---	---	---	---	15.8	12.3	-	-	-	-
Asgrow RX544 (2X)	28.9	---	---	114.0	64.8	---	---	---	---	15.1	9.8	-	-	-	-
**Migro M-2018X (2X)	29.1	26	28	130.6	84.2	156	95	151	92	5.3	2.3	3	1	3	1
**Michigan 5802 (2X)	29.1	27	28	140.5	83.6	147	90	142	86	12.9	11.3	9	7	7	6
Customaize CFS WX128 (2X)	29.1	---	---	118.7	68.7	---	---	---	---	29.3	21.1	-	-	-	-
**Pride 4488 (2X)	29.2	26	---	131.6	74.2	146	87	---	---	1.4	0.8	1	2	-	-
**Amcorn 7300 (2X)	29.8	26	28	122.0	74.7	124	78	126	78	9.9	7.6	9	7	6	5
Migro HP27 (2X)	30.0	---	---	103.5	56.6	---	---	---	---	8.5	3.1	-	-	-	-
Trojan TXS102 (2X)	30.0	27	---	100.8	51.1	135	76	---	---	28.9	22.8	17	14	-	-
Acco UC3002 (2X)	30.1	28	29	117.5	59.7	143	79	143	80	12.5	8.2	12	4	9	3
**Great Lakes GL-552 (2X)	30.2	---	---	122.6	75.2	---	---	---	---	8.0	6.6	-	-	-	-
ADI 197 (X)	30.3	30	---	108.8	55.6	143	77	---	---	9.7	5.6	5	3	-	-
**Kaltenberg KX68 (2X)	30.4	---	---	131.2	75.4	---	---	---	---	5.8	4.6	-	-	-	-
McKenzie 1001 (MSX)	30.8	---	---	103.7	56.7	---	---	---	---	17.7	12.8	-	-	-	-
Cargill 892 (2X)	31.1	---	---	105.7	58.8	---	---	---	---	34.4	23.9	-	-	-	-
+ADI 325 (2X)	31.1	---	---	116.1	79.5	---	---	---	---	13.1	8.9	-	-	-	-
+Michigan 5912 (2X)	31.2	28	30	113.3	75.4	141	89	147	89	5.3	6.1	4	3	3	2
+Michigan 5922 (2X)	31.2	---	---	120.0	81.1	---	---	---	---	1.1	2.0	-	-	-	-
**Cargill 924 (2X)	31.3	---	---	135.8	82.5	---	---	---	---	11.4	8.4	-	-	-	-
Amcorn 7480 (2X)	31.8	27	29	106.0	67.5	136	85	134	82	1.8	2.3	2	1	1	1
Migro M-0301 (2X)	32.0	28	30	103.0	54.3	133	83	137	81	20.6	12.5	14	7	10	5
ADI 315 (2X)	34.4	---	---	119.2	71.2	---	---	---	---	9.0	5.8	-	-	-	-
Average	26.8	24	26	108.5	66.5	131	81	131	80	14.2	11.0	9	6	7	4

(continued)

Table 17 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre						% Stalk lodging					
	1979			1979		2 years		3 years		1979		2 years		3 years	
	yrs. yrs.			Irrig	Not	Irrig	Not	Irrig	Not	Irrig	Not	Irrig	Not	Irrig	Not
	to to to			to to		to to		to to		to to		to to		to to	
Range	21.2	21	22	66.9	42.0	85	53	94	61	1.1	0.8	1	1	1	1
	34.4	30	30	142.0	91.5	156	98	151	94	47.1	42.1	17	15	12	9
Least significant difference	1.5	1.0	0.7	12.3	7.3	9	6	6	5	---	---	-	-	-	-

*Significantly better than average yield, irrigated, 1979

+Significantly better than average yield, not irrigated, 1979

	1979	1978	1977
Planted	May 19	May 3	April 26
Harvested	November 19	November 9	October 28
Soil type	Montcalm sandy loam	Montcalm sandy loam	Montcalm sandy loam
Previous crop	Alfalfa	Corn	Corn
Population	20,800	20,700	20,500
Rows	30"	30"	30"
Fertilizer	213-80-80	197-60-60	283-90-90
Irrigation	6 inches	8 inches	13 inches
Soil test: pH	5.4	6.7	6.7
P	493 (very high)	362 (very high)	391 (very high)
K	336 (very high)	188 (medium)	174 (medium)

Farm Cooperator: Theron Comden, Montcalm Experimental Farm, Lakeview

County Extension Director: James Crosby, Stanton

Table 18

NORTH CENTRAL MICHIGAN
Oceana and Mason County - Trials
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979			1979			1979		
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Seneca 149 (3X)	22.9	22	---	82.1	78	---	8.0	5	-
Michigan 280 (4X)	23.1	23	23	89.5	88	95	8.8	4	3
Super Crost 1210 (2X)	23.9	23	---	76.8	69	---	12.8	6	-
Dekalb XL11 (2X)	23.9	---	---	91.6	---	---	10.0	-	-
Great Lakes GL-352 (MSX)	24.0	---	---	85.5	---	---	9.1	-	-
Jacques 863	24.3	---	---	72.1	---	---	9.7	-	-
Seneca S3193 (3X)	24.3	---	---	111.8	---	---	2.1	-	-
Michigan 333-3X (3X)	24.3	24	25	105.2	99	108	3.8	2	1
Pride R144 (3X)	24.6	24	24	74.4	68	77	4.2	3	2
Michigan 2443 (3X)	24.6	23	23	92.8	89	93	10.9	5	4
Pride 2206 (2X)	24.6	---	---	100.1	---	---	2.9	-	-
Blaney B303A (2X)	24.7	25	25	90.5	87	97	4.5	2	2
Super Crost 1303 (3X)	24.7	23	---	76.3	67	---	21.5	11	-
Funk G-4195 (3X)	24.9	25	26	102.3	87	99	4.8	2	3
Northrup King PX22 (2X)	25.0	---	---	102.5	---	---	3.4	-	-
Migro M-0101 (2X)	25.0	25	26	106.7	103	103	2.2	1	1
Northrup King PX11 (2X)	25.0	---	---	95.7	---	---	6.9	-	-
Trojan TX85 (3X)	25.1	---	---	96.4	---	---	4.8	-	-
Pride 2264 (2X)	25.1	---	---	104.2	---	---	3.5	-	-
Blaney B302-wx (2X)	25.3	25	---	92.5	81	---	18.3	9	-
Michigan 3093 (3X)	25.3	24	25	100.8	94	99	8.7	4	3
O's Gold SX845 (2X)	25.4	---	---	98.6	---	---	2.9	-	-
Pioneer 3950 (MSX)	25.4	---	---	108.4	---	---	0.0	-	-
Michigan 3102 (2X)	25.6	25	26	109.5	102	106	3.9	2	2
Super Crost 1580 (2X)	25.8	---	---	90.7	---	---	2.3	-	-
*Garno S-90 (2X)	25.8	26	---	117.5	102	---	6.8	3	-
Great Lakes GL-452 (2X)	25.9	---	---	108.4	---	---	1.4	-	-
Super Crost 1402 (2X)	25.9	24	---	78.4	69	---	10.4	5	-
*Pioneer 3901 (2X)	25.9	26	26	123.4	116	121	2.7	1	1
Golden Harvest H-2239 (MSX)	25.9	---	---	96.2	---	---	3.6	-	-

(continued)

Table 18 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979			1979			1979		
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
O's Gold SX940 (2X)	26.1	---	---	92.2	---	---	3.9	-	-
Trojan TXS94 (2X)	26.1	25	26	100.1	81	93	3.3	2	2
Jacques JX32	26.4	---	---	99.3	---	---	5.1	-	-
Pride 2259 (2X)	26.6	---	---	108.9	---	---	1.4	-	-
Acco UC2301 (2X)	26.6	26	28	100.2	99	114	0.7	0	0
Pickseed Exp. 78X1010 (2X)	26.7	---	---	94.9	---	---	4.3	-	-
Migro M-0105 (2X)	26.8	28	29	98.4	88	98	0.7	0	0
*Blaney B501A (2X)	26.9	27	28	119.9	109	113	2.8	1	1
Funk G-4141A (MSX)	27.0	---	---	105.0	---	---	2.0	-	-
Pioneer 3958 (2X)	27.0	26	26	98.1	99	105	3.4	2	1
*DeKalb XL13 (2X)	27.0	---	---	121.2	---	---	7.7	-	-
Golden Harvest H-2373 (2X)	27.3	27	---	109.1	105	---	1.4	1	-
Super Crost 78015 (2X)	27.4	---	---	113.2	---	---	0.7	-	-
*Northrup King PX485 (3X)	27.4	---	---	119.7	---	---	3.4	-	-
*Pioneer 3780 (2X)	27.6	28	30	128.3	106	112	4.8	2	2
Michigan 3953 (3X)	27.6	28	28	104.1	95	108	2.1	1	1
Migro HP16 (2X)	27.8	---	---	102.6	---	---	0.0	-	-
Michigan 407-2X (2X)	27.9	28	29	114.6	106	114	4.1	2	2
Migro HP20 (2X)	28.6	---	---	109.4	---	---	1.5	-	-
Funk G-4252 (3X)	28.7	27	28	96.9	88	97	3.8	2	2
Blaney B606E-wx (2X)	28.8	30	---	107.1	107	---	9.2	5	-
Super Crost 1950 (2X)	28.8	28	---	110.9	100	---	2.7	1	-
*Acco UC2851 (2X)	28.9	---	---	117.1	---	---	0.7	-	-
*Funk G-4272 (3X)	29.1	28	---	128.4	109	---	2.1	1	-
*Michigan 4122 (2X)	29.3	28	29	135.6	121	120	1.5	1	1
*Northrup King PX34 (2X)	29.4	---	---	127.4	---	---	0.0	-	-
*Migro M-2022X (2X)	29.7	29	30	118.5	101	114	2.1	1	2
Funk G-4224 (MSX)	30.1	28	---	107.3	93	---	0.7	0	-
Blaney B606E (2X)	30.4	30	31	113.2	109	115	2.1	2	1
O's Gold SX1040 (2X)	30.9	---	---	108.1	---	---	3.4	-	-

(continued)

Table 18 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Migro HP23R (2X)	31.4	---	---	112.7	---	---	0.0	-	-
Migro M-0301 (2X)	31.7	31	---	113.4	110	---	2.8	1	-
*Migro M-2018X (2X)	31.7	31	32	127.5	106	108	1.4	1	0
*Migro HP27 (2X)	32.1	---	---	120.3	---	---	0.0	-	-
*Trojan TXS102 (2X)	32.7	---	---	118.6	---	---	8.1	-	-
Average	27.1	26	27	104.4	95	105	4.5	3	1
Range	22.9 to 32.7	22 to 31	23 to 32	72.1 to 135.6	67 to 121	77 to 121	0.0 to 21.5	0 to 11	0 to 4
Least significant difference	1.5	0.9	0.7	12.5	7	5			

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 10	May 11	May 11
Harvested	November 14	November 6	October 25
Soil type	Arenac and Iosco sandy loam	Kawawlin sandy loam	Iosco sandy loam
Previous crop	Corn seeded to rye	Corn	Corn
Irrigation	8 times @ 1"=8 in.	---	---
Population	20,900	18,900	20,100
Rows	30"	30"	30"
Fertilizer	220-52-172+2% Zn	126-92-120	130-60-60
Soil test: pH	6.0	6.1	6.4
P	404 (very high)	43 (medium)	68 (high)
K	219 (high)	276 (high)	120 (low)
Farm Cooperator:	Elmer Gowell, Rothbury (1979)		
	Robert and August Ohse, Scottville (1978, 1977)		
County Extension Directors:	Ed Strong, Hart (1979)		
	Dean Raven, Scottville (1978, 1977)		

Table 19

NORTHERN MICHIGAN
Grand Traverse County Trial
One, Two, Three Year Averages - 1979, 1978, 1977

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Seneca 140 (2X)	29.0	25	---	58.2	61	---	5.3	5	-
Pride 1128 (2X)	29.1	---	---	51.6	---	---	9.7	-	-
Farm Bureau FBS259 (2X)	29.7	---	---	75.0	---	---	3.6	-	-
Super Crost 1210 (2X)	29.7	27	25	51.8	61	71	2.9	2	2
Hyland HL-2217 (2X)	29.9	---	---	56.9	---	---	4.9	-	-
Hyland HL-3212 (3X)	29.9	---	---	51.1	---	---	11.2	-	-
Michigan 2013 (3X)	30.0	26	25	70.4	73	77	6.0	5	4
Pickseed 2111 (2X)	30.5	---	---	48.0	---	---	16.7	-	-
Funk G-4055 (MSX)	30.5	---	---	65.2	---	---	9.1	-	-
Jacques JX20 (2X)	30.6	26	---	56.0	67	---	4.4	3	-
Hyland HL-2216 (2X)	30.7	---	---	62.1	---	---	4.3	-	-
Pride R108 (3X)	30.9	---	---	51.4	---	---	6.1	-	-
Michigan 200 (4X)	31.0	27	26	64.6	69	76	7.3	5	3
*Jacques JX21	31.1	---	---	75.6	---	---	3.1	-	-
Garno S-69 (2X)	31.1	---	---	50.5	---	---	9.2	-	-
*DeKalb DK24 (3X)	31.2	---	---	80.4	---	---	9.2	-	-
Funk G-4065 (MSX)	31.3	---	---	57.6	---	---	9.4	-	-
Pickseed 2277 (2X)	31.4	26	25	54.8	65	70	11.2	6	5
Super Crost 1402 (2X)	31.4	28	---	62.7	69	---	3.6	2	-
Northrup King PX11 (2X)	31.4	27	---	54.5	64	---	5.2	3	-
Northrup King PX7 (2X)	31.4	---	---	70.8	---	---	1.4	-	-
Warwick W777 (2X)	31.6	26	---	51.3	57	---	7.9	5	-
*Michigan 2443 (3X)	31.7	28	27	81.0	81	88	5.1	4	3
Seneca PC14	32.0	28	---	53.9	63	---	3.6	2	-
*Northrup King PX14 (2X)	32.1	28	---	86.3	75	---	2.1	2	-
*Great Lakes GL-352 (MSX)	32.2	---	---	76.1	---	---	4.0	-	-
*Michigan 280 (4X)	32.4	28	27	77.9	79	83	3.6	3	3
McKenzie 840 (3X)	32.4	---	---	57.7	---	---	7.3	-	-
Super Crost 1303 (3X)	32.5	29	---	58.3	61	---	3.5	3	-
Michigan 333-3X (3X)	32.7	30	29	73.5	79	88	0.0	1	1

(continued)

Table 19 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
*Pioneer 3950 (MSX)	32.7	---	---	82.0	---	---	0.0	-	-
*Jacques JX25 (2X)	32.8	---	---	82.1	---	---	2.1	-	-
DeKalb XL11 (2X)	32.8	---	---	64.2	---	---	2.1	-	-
Payco 350	32.8	---	---	55.7	---	---	1.5	-	-
Michigan 3093 (3X)	32.9	30	29	73.3	75	83	5.9	4	3
*Northrup King PX22 (2X)	32.9	30	---	86.9	91	---	0.7	1	-
Funk G-4085 (3X)	33.0	29	27	54.0	60	67	2.9	3	3
Pride R144 (3X)	33.0	29	27	53.8	63	69	0.7	1	1
Funk G-5191 (4X)	33.3	28	27	70.6	68	74	2.9	3	3
*Pickseed 2262 (2X)	33.3	28	27	84.9	83	88	6.9	5	5
*Warwick W844 (Sp.)	33.4	---	---	80.6	---	---	5.9	-	-
Funk G-4040 (2X)	33.5	---	---	71.8	---	---	1.4	-	-
*Migro M-0101 (2X)	33.7	32	---	81.8	77	---	4.2	3	-
McKenzie 901 (3X)	33.9	---	---	56.1	---	---	1.3	-	-
Funk G-4195 (3X)	34.2	30	29	60.6	72	84	4.2	4	4
Hyland HL-2418 (2X)	34.3	---	---	72.5	---	---	4.1	-	-
*Pioneer 3901 (2X)	34.5	33	32	85.8	91	98	0.7	2	2
Blaney B201 (2X)	34.6	---	---	66.5	---	---	2.2	-	-
Pride 2206 (2X)	34.6	---	---	76.2	---	---	1.4	-	-
Migro HP16 (2X)	34.7	---	---	76.9	---	---	0.7	-	-
Trojan TX90 (3X)	34.7	30	28	73.8	73	85	5.8	4	2
Northrup King PX419(3X)	34.8	---	---	54.7	---	---	3.6	-	-
*Michigan 3102 (2X)	34.8	32	31	78.0	81	87	3.8	4	2
*Payco 580	35.1	---	---	81.9	---	---	3.0	-	-
Pioneer 3958 (2X)	35.4	---	---	54.6	---	---	2.2	-	-
Blaney B302 (2X)	35.4	---	---	62.8	---	---	0.8	-	-
Funk G-4141A (MSX)	35.5	---	---	66.2	---	---	5.8	-	-
Jacques JX52 (2X)	35.5	32	---	72.0	66	---	2.1	1	-
*Garno S-90 (2X)	35.8	33	---	89.1	82	---	0.0	0	-
*Migro HP23R (2X)	35.8	---	---	77.5	---	---	0.0	-	-
*Michigan 3953 (3X)	35.9	34	---	86.7	82	---	0.0	0	-
McKenzie 1001 (MSX)	36.0	---	---	66.2	---	---	0.7	-	-
Great Lakes GL-452 (2X)	36.0	---	---	71.8	---	---	3.7	-	-
*DeKalb XL13 (2X)	36.0	---	---	77.3	---	---	1.5	-	-
*Anderson SSA (2X)	36.0	34	33	83.8	86	91	0.0	0	0
Anderson AX-3 (Sp.)	36.0	33	31	57.9	60	69	1.4	1	1
*Migro M-0105 (2X)	36.1	33	---	76.4	79	---	2.8	1	-
*Migro HP20 (2X)	36.1	---	---	84.5	---	---	0.7	-	-
*McKenzie 950 (MSX)	36.3	---	---	82.5	---	---	0.7	-	-
Average	33.1	29	28	68.2	72	80	3.9	3	2
Range	29.0 to 36.3	25 to 34	25 to 33	48.0 to 89.1	57 to 91	67 to 98	0.0 to 16.7	0 to 6	0 to 5
Least significant difference	1.6	1.1	0.8	7.3	5	5	-	-	-

*Significantly better than average yield in 1979.

	1979	1978	1977
Planted	May 18	May 17	May 12
Harvested	November 17	November 7	October 27
Soil type	Coventry-Newaygo loam	Coventry-Newaygo loam	Coventry-Newaygo loam
Previous crop	Corn	Corn	Corn
Population	20,900	20,800	19,400
Rows	36"	36"	36"
Fertilizer	136-92-36	126-92-60, manure	132-57-57
Soil test: pH	6.6	6.7	6.7
P	514 (very high)	325 (very high)	358 (very high)
K	536 (very high)	372 (very high)	336 (very high)

Farm Cooperator: George Svec, Buckley

County Extension Director: George McManus, Traverse City

Table 20 NORTHERN MICHIGAN
Missaukee County Trial - Silage
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 4

Hybrid (Brand-variety)	% Dry matter			Tons per acre					
	1979	2 yr.		Green weight			Dry weight		
		yr.	yr.	1979	yr.	yr.	1979	yr.	yr.
Michigan 2013 (3X)	31.0	30.3	28.6	16.7	14.1	13.5	5.1	4.2	3.8
P-A-G SX111 (2X)	30.6	30.3	---	17.4	14.7	---	5.4	4.5	---
Garno S-69 (2X)	28.7	---	---	15.7	---	---	4.5	---	---
Jacques 863 (3X)	28.3	---	---	14.1	---	---	4.0	---	---
Trojan TX85 (3X)	27.6	27.5	---	16.2	13.9	---	4.4	3.8	---
Michigan 200 (4X)	27.5	28.2	26.2	16.0	13.8	14.2	4.4	3.9	3.7
Migro HP16 (2X)	27.2	---	---	17.6	---	---	4.8	---	---
Pride 1128 (2X)	27.1	26.8	25.9	15.9	15.0	15.6	4.3	4.0	4.0
McKenzie 840 (3X)	27.1	---	---	13.7	---	---	3.7	---	---
Pride R108 (3X)	26.9	---	---	17.9	---	---	4.8	---	---
DeKalb XL309 (3X)	26.6	25.5	---	16.1	14.1	---	4.3	3.6	---
Great Lakes GL-352 (MSX)	26.6	---	---	16.4	---	---	4.4	---	---
Pride R144 (3X)	26.4	---	---	15.4	---	---	4.1	---	---
Michigan 280 (4X)	26.3	27.4	25.6	19.9	15.8	16.1	5.2	4.3	4.1
Funk G-5048 (4X)	26.3	---	---	19.9	---	---	5.2	---	---
Farm Bureau FBS265 (2X)	26.1	---	---	16.2	---	---	4.2	---	---
Funk G-4085 (3X)	26.1	27.3	25.1	16.6	13.8	13.8	4.3	3.7	3.4
Pioneer 3977 (3X)	26.0	---	---	18.8	---	---	4.9	---	---
Jacques 823 (3X)	25.9	---	---	14.4	---	---	3.7	---	---
DeKalb XL311 (3X)	25.1	26.3	24.7	17.2	13.8	14.6	4.3	3.6	3.5
Trojan T929 (2X)	25.0	---	---	17.9	---	---	4.5	---	---
Michigan 2443 (3X)	25.0	26.2	25.4	18.1	15.9	16.6	4.5	4.1	4.2
DeKalb XL11 (2X)	24.9	---	---	16.7	---	---	4.1	---	---
P-A-G 145 (2X)	24.8	---	---	14.8	---	---	3.6	---	---
Funk G-4195 (3X)	24.8	24.2	---	20.4	15.8	---	5.1	3.9	---
McKenzie 901 (3X)	24.6	---	---	18.3	---	---	4.5	---	---
Pioneer 3958 (2X)	24.6	---	---	19.9	---	---	4.9	---	---
Michigan 3093 (3X)	24.6	24.3	23.0	18.2	15.6	15.9	4.5	3.8	3.6
Pioneer 3950 (MSX)	24.4	---	---	17.1	---	---	4.2	---	---
Golden Harvest H-2230 (MSX)	24.2	23.9	---	13.7	12.6	---	3.3	3.0	---
Golden Harvest H-2370 (2X)	24.1	24.0	21.9	19.8	16.1	16.6	4.8	3.9	3.6
Michigan 333-3X (3X)	24.0	24.0	22.9	19.0	16.1	16.5	4.6	3.9	3.8
Golden Harvest H-2239 (MSX)	24.0	---	---	15.0	---	---	3.6	---	---
Jacques JX25 (2X)	23.5	24.2	---	18.9	15.0	---	4.4	3.6	---
DeKalb XL13 (2X)	23.5	---	---	20.8	---	---	4.9	---	---
Migro HP20 (2X)	23.2	---	---	20.7	---	---	4.8	---	---
Michigan 3102 (2X)	23.0	23.8	22.0	21.3	17.6	18.0	4.9	4.2	3.9
Pioneer 3901 (2X)	22.0	22.2	---	20.2	17.2	---	4.5	3.8	---
DeKalb XL23 (2X)	21.8	---	---	20.9	---	---	4.6	---	---
Michigan 3953 (3X)	20.9	22.0	---	18.6	16.4	---	3.9	3.6	---
Average	25.3	25.7	24.6	17.6	15.1	15.5	4.4	3.8	3.7
Range	20.9 to 31.0	22.0 to 30.3	21.9 to 28.6	13.7 to 21.3	12.6 to 17.6	13.5 to 18.0	3.3 to 5.4	3.0 to 4.5	3.4 to 4.2
Least significant difference	2.2	1.5	1.3	1.9	1.2	0.9	0.6	0.4	0.4
Planted	1979	1978	1977						
Harvest	May 17	May 17	May 19						
Soil type	September 21	September 14	September 13						
Previous crop	Kent silt loam	Kent silt loam	Kent silt loam						
Population	Corn	Corn	Corn						
Rows	19,900	19,400	19,200						
Fertilizer	30"	30"	30"						
Soil test: pH	109-36-36	135-48-69	141-64-128						
P	5.3	5.6	6.4						
K	73 (high)	47 (medium)	47 (medium)						
	128 (low)	157 (low)	128 (low)						

Farm Cooperator: Lake City Experiment Station, Lake City

County Extension Director: Vern VandePol, Lake City

Cooperator: Dr. L. O. Copeland, Department of Crop and Soil Sciences, Michigan State University, East Lansing

Table 21 NORTHERN MICHIGAN
Alpena County Trial - Grain
One, Two, Three Year Averages - 1978, 1977, 1976**

Zone 4

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1978	2 yr.		1978	2 yr.		1978	2 yr.	
		yr.	yr.		yr.	yr.		yr.	yr.
Seneca 140 (3X)	29.5	---	---	80.4	---	---	3.1	-	-
Warwick W777 (2X)	29.5	---	---	92.0	---	---	3.8	-	-
Warwick TX17 (3X)	30.9	29	28	76.2	71	72	7.3	12	12
Michigan 2013 (3X)	31.0	29	29	77.7	74	84	4.5	8	7
Michigan 200 (4X)	32.4	30	30	82.0	93	94	5.0	4	3
Pickseed 2111 (2X)	33.7	---	---	67.3	---	---	5.6	-	-
Pioneer 3977 (3X)	35.8	---	---	85.3	---	---	2.2	-	-
Pride R107 (3X)	36.1	32	31	86.1	78	83	2.9	9	7
Pickseed 2272 (2X)	36.1	32	---	85.2	96	---	1.0	3	-
Super Crost 1210 (2X)	36.6	33	33	68.2	87	89	1.5	6	4
Michigan 2443 (3X)	36.8	34	---	96.6	109	---	4.0	3	-
Pride 1108 (2X)	37.0	---	---	90.2	---	---	0.9	-	-
Warwick SL207 (2X)	37.0	33	32	71.2	88	95	1.4	5	4
Warwick TX20 (3X)	37.4	---	---	91.1	---	---	0.0	-	-
*Funk G-4040 (2X)	37.5	---	---	102.7	---	---	4.4	-	-
Customize CFS-E660 (2X)	37.6	---	---	97.3	---	---	4.8	-	-
*Pride 1128 (2X)	37.6	33	---	106.5	115	---	1.9	5	-
Renk RK3 (2X)	37.8	---	---	91.5	---	---	1.8	-	-
Payco 3X443 (3X)	38.2	---	---	80.4	---	---	1.1	-	-
Michigan 280 (4X)	38.3	34	33	99.9	108	109	2.3	4	3
Golden Harvest H-2230 (MSX)	38.3	---	---	76.2	---	---	0.9	-	-
Acco UC1124 (2X)	38.5	---	---	99.9	---	---	3.3	-	-
Seneca PC14 (2X)	38.5	---	---	92.9	---	---	0.0	-	-
Pickseed 4944 (2X)	38.6	---	---	87.8	---	---	0.0	-	-
Michigan 3093 (3X)	39.6	38	37	94.5	108	109	0.0	1	2
*Pickseed 2262 (2X)	39.9	37	---	113.9	122	---	0.0	3	-
Super Crost 1303 (3X)	39.9	---	---	99.9	---	---	1.3	-	-
Voris V2271 (2X)	40.1	---	---	80.1	---	---	1.9	-	-
Pioneer 3975A (Sp.)	41.1	38	---	84.9	100	---	2.3	1	-
Super Crost 1690 (2X)	41.2	---	---	89.8	---	---	0.0	-	-
Funk G-4171 (3X)	41.4	---	---	92.4	---	---	0.0	-	-
Funk G-5191 (4X)	41.4	38	37	88.1	100	105	0.0	1	2
Asgrow RX29 (4X)	41.8	36	35	92.6	110	113	1.1	3	2
Blaney B201 (2X)	41.8	---	---	91.1	---	---	2.1	-	-
*Trojan TX90 (3X)	42.5	39	---	108.1	110	---	0.0	1	-
*Michigan 333-3X (3X)	42.5	39	39	106.5	114	114	0.0	2	2
Pickseed 185 (Sp.)	42.7	---	---	81.2	---	---	0.0	-	-
Acco U305 (3X)	43.1	---	---	77.0	---	---	1.6	-	-
Super Crost 1402 (2X)	43.1	---	---	83.0	---	---	0.0	-	-
USS U8543 (2X)	43.1	---	---	75.9	---	---	2.0	-	-
*Golden Harvest H-2370 (2X)	43.2	41	40	103.0	119	119	0.0	1	1
Super Crost 1692 (2X)	43.3	---	---	83.5	---	---	1.0	-	-
*Garnet-Ross 33X29 (Sp.)	43.4	---	---	111.9	---	---	0.0	-	-
Voris V2321 (2X)	43.6	---	---	94.6	---	---	1.0	-	-
*Michigan 3102 (2X)	43.9	40	40	117.0	123	122	3.5	2	1
*Super Crost 31 (4X)	44.0	---	---	101.8	---	---	1.6	-	-
Anderson SSA (2X)	44.7	43	---	97.8	108	---	0.0	1	-
*Michigan 3953 (3X)	44.7	---	---	107.2	---	---	0.0	-	-
*Northrup King PX20 (2X)	45.0	39	---	110.6	116	---	1.0	1	-
Pride R144 (3X)	45.1	41	40	84.9	97	102	0.0	2	1
Anderson AX-3 (Sp.)	46.1	44	---	87.8	93	---	0.0	2	-
Garnet-Ross 33 (Sp.)	46.1	---	---	92.9	---	---	0.0	-	-
*Pioneer 3901 (2X)	46.3	---	---	113.8	---	---	0.0	-	-
*Super Crost 1950 (2X)	47.1	---	---	108.6	---	---	0.9	-	-
Average	39.9	36	35	91.8	102	101	1.6	3	4
Range	29.5 to 47.1	29 to 44	28 to 40	67.3 to 113.9	71 to 123	72 to 122	0.0 to 7.3	1 to 12	1 to 12
Least significant difference	2.2	1.1	0.8	8.9	7	5			

Table 21 (continued)

*Significantly better than average yield in 1979

**No results in 1979. Crows and vandals damaged the plots.

	1978	1977	1976
Planted	May 17	May 13	May 15
Harvested	October 20	November 1	October 7
Soil type	Onaway sandy loam	Onaway Sandy loam	Onaway sandy loam
Previous crop	Corn	Corn	Wheat
Population	19,100	22,200	20,500
Rows	28"	28"	28"
Fertilizer	138-38-38, manure	130-38-38, manure	112-72-72, manure
Soil test: pH	7.2	7.3	6.6
P	56 (medium)	50 (medium)	53 (medium)
K	122 (low)	152 (low)	176 (medium)

Farm Cooperator: Robert Cornell, Posen

County Extension Director: Melvin Matchett, Alpena

Cooperator: Dr. L. O. Copeland, Crop & Soil Sciences, Michigan State University, East Lansing, Michigan

Table 22 NORTHERN MICHIGAN
Alpena County Trial - Silage Zone 4
One, Two, Three Year Averages - 1978, 1977, 1976*

Hybrid (Brand-Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1978	2 yr.	3 yr.	1978	2 yr.	3 yr.	1978	2 yr.	3 yr.
Warwick TX17 (3X)	29.6	26.6	28.5	16.5	18.6	17.1	4.9	4.9	4.8
Pride 1108 (2X)	29.2	---	---	16.3	---	---	4.8	---	---
Michigan 2013 (3X)	29.1	28.7	30.7	16.3	16.9	16.5	4.7	4.8	5.0
Warwick SL207 (2X)	28.6	26.4	26.9	16.6	18.8	18.4	4.7	4.9	4.9
Michigan 200 (4X)	28.4	27.3	29.6	20.9	20.5	19.2	5.9	5.6	5.6
Asgrow RX29 (4X)	27.6	26.9	27.4	22.1	21.3	21.2	6.1	5.7	5.8
Warwick W777 (2X)	27.0	---	---	21.6	---	---	5.8	---	---
Pickseed 2111 (2X)	26.7	---	---	15.8	---	---	4.2	---	---
Super Crost 1303 (3X)	26.1	---	---	18.2	---	---	4.8	---	---
Michigan 2443 (3X)	26.1	25.8	---	19.4	22.0	---	5.1	5.7	---
Super Crost 1590 (2X)	26.1	---	---	20.2	---	---	5.3	---	---
Pickseed 2272 (2X)	26.1	25.1	---	18.2	21.3	---	4.8	5.3	---
Pickseed 2262 (2X)	25.9	23.8	---	17.8	22.0	---	4.6	5.1	---
Michigan 280 (4X)	25.9	25.8	27.2	21.7	22.5	22.8	5.6	5.8	6.2
Seneca 140 (3X)	25.6	---	---	15.5	---	---	4.0	---	---
Pride R107	25.6	26.5	29.3	17.1	18.8	17.6	4.4	5.0	5.1
Customaize CFS-E660 (2X)	25.3	---	---	23.8	---	---	6.0	---	---
Blaney B201 (2X)	25.3	---	---	22.5	---	---	5.6	---	---
Super Crost 1210 (2X)	25.3	---	---	16.2	---	---	4.1	---	---
Super Crost 1402 (2X)	25.1	---	---	17.7	---	---	4.4	---	---
Pride 1128 (2X)	25.0	24.9	---	23.4	25.9	---	5.9	6.5	---
Pioneer 3977 (3X)	24.9	---	---	17.9	---	---	4.2	---	---
Pickseed 185 (Sp.)	24.6	---	---	17.0	---	---	4.2	---	---
Voris V2271 (2X)	24.6	---	---	18.9	---	---	4.7	---	---
Golden Harvest H-2230 (MSX)	24.4	---	---	17.7	---	---	4.3	---	---
Renk RK3 (2X)	24.1	---	---	16.2	---	---	3.9	---	---
Super Crost 1692 (2X)	24.0	---	---	22.1	---	---	5.3	---	---
Michigan 333-3X (3X)	24.0	23.5	24.8	21.5	25.3	25.0	5.2	5.9	6.2
Pickseed 4944 (2X)	23.9	---	---	18.1	---	---	4.3	---	---
Pioneer 3975A (Sp.)	23.6	23.1	---	19.3	21.9	---	4.6	5.1	---
Funk G-4171 (3X)	23.6	---	---	19.8	---	---	4.6	---	---
Voris V2321 (2X)	23.5	---	---	17.5	---	---	4.0	---	---
Seneca PC14 (2X)	23.4	23.6	---	18.3	21.7	---	4.3	5.1	---
Warwick TX20 (3X)	23.3	23.0	23.9	19.9	22.4	22.7	4.6	5.1	5.4
Funk G-4040 (2X)	23.3	---	---	16.9	---	---	3.9	---	---
Payco 3X443 (3X)	23.1	---	---	15.5	---	---	3.6	---	---
Michigan 3093 (3X)	23.1	23.2	24.6	21.5	24.6	24.7	5.0	5.7	6.1
Andersons SSA (2X)	23.0	21.8	---	22.6	27.8	---	5.2	6.0	---
Funk G-5191 (4X)	23.0	22.2	23.5	22.3	25.1	25.9	5.1	5.5	6.1
Michigan 3102 (2X)	23.0	22.6	23.8	23.6	26.1	26.2	5.7	6.0	6.3
Northrup King PX 20 (2X)	22.8	23.5	---	24.0	26.3	---	5.5	6.2	---
Garnet-Ross 33 (Sp.)	22.8	---	---	17.8	---	---	4.1	---	---
Super Crost 1950 (2X)	22.8	---	---	21.6	---	---	4.9	---	---
Pride R144 (3X)	22.8	23.3	23.8	18.3	20.7	20.0	4.2	4.9	4.8
Trojan TX90 (3X)	22.7	23.2	---	20.5	23.7	---	4.7	5.5	---
Garnet Ross 33X29(Sp.)	22.5	---	---	26.1	---	---	5.9	---	---
Super Crost 31 (4X)	22.4	---	---	21.7	---	---	4.8	---	---
Acco UC 1124 (2X)	22.2	---	---	22.6	---	---	5.0	---	---
USS UB543 (2X)	22.1	---	---	17.4	---	---	3.9	---	---
Michigan 3953 (3X)	22.0	---	---	25.4	---	---	5.6	---	---

(continued)

Table 22 (continued)

Hybrid (Brand-Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1978	2 yr.	3 yr.	1978	2 yr.	3 yr.	1978	2 yr.	3 yr.
Pioneer 3901 (2X)	21.7	---	---	25.7	---	---	5.6	---	---
Golden Harvest H-2370 (2X)	21.5	20.8	21.9	23.3	29.0	27.6	5.0	6.0	6.0
Andersons AX-3 (Sp.)	21.4	21.3	---	20.8	23.4	---	4.4	4.9	---
Acco U305 (3X)	21.2	---	---	23.4	---	---	5.0	---	---
Average	24.5	24.2	26.1	19.9	22.7	21.7	4.8	5.4	5.5
Range	21.2 to 29.6	20.8 to 28.7	21.9 to 30.7	15.5 to 26.1	16.9 to 29.0	16.5 to 27.6	3.6 to 6.0	4.8 to 6.5	4.8 to 6.3
Least significant difference	1.8	1.3	1.0	1.7	1.2	0.8	0.5	0.4	0.3

*No results in 1979. Crows and vandals damaged the plots.

	1978	1977	1976
Planted	May 17	May 13	May 15
Harvested	September 14	September 13	September 8
Soil type	Onaway sandy loam	Onaway sandy loam	Onaway sandy loam
Previous crop	Corn	Corn	Wheat
Population	19,100	22,400	19,500
Rows	28"	28"	28"
Fertilizer	138-38-38, manure	130-38-38, manure	118-72-72, manure
Soil test: pH	7.2	7.3	6.6
P	56 (medium)	50 (medium)	53 (medium)
K	122 (low)	152 (low)	176 (medium)

Farm Cooperator: Robert Cornell, Posen

County Extension Director: Melvin Matchett, Alpena

Cooperator: Dr. L. O. Copeland, Crop & Soil Sciences Department, Michigan State University, East Lansing

Table 23 NORTHERN MICHIGAN
Alger County Trial - Silage Zone 4
One, Two, Three Year Averages - 1979, 1977, 1976*

Hybrid (Brand-Variety)	% Dry matter			Tons per acre Green weight			Dry weight		
	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.	1979	2 yr.	3 yr.
Pioneer 3995	32.2	---	---	11.2	---	---	3.6	-	-
Pride 1108 (2X)	31.6	---	---	13.7	---	---	4.3	-	-
Pioneer 3993	30.4	---	---	14.1	---	---	4.3	-	-
DeKalb DK24 (3X)	30.3	---	---	15.9	---	---	4.8	-	-
Hyland HL-3212 (3X)	29.2	---	---	15.8	---	---	4.6	-	-
Pride R108 (3X)	28.9	---	---	15.4	---	---	4.4	-	-
Garno S-69 (2X)	27.1	---	---	17.5	---	---	4.7	-	-
Funk G-4065 (MSX)	26.7	---	---	15.8	---	---	4.2	-	-
Midland M385 (3X)	26.6	34.0	---	16.4	14.3	---	4.3	4.7	-
Hyland HL-2219 (2X)	26.6	---	---	18.7	---	---	5.0	-	-
Trojan TXS82 (2X)	26.3	---	---	17.4	---	---	4.5	-	-
Michigan 2013 (3X)	26.2	35.0	37.9	15.5	12.8	11.0	4.1	4.3	4.0
Jacques JX32	25.9	---	---	16.4	---	---	4.2	-	-
Warwick W844 (Sp.)	25.2	---	---	20.1	---	---	5.1	-	-
Warwick W777 (Sp.)	25.2	---	---	17.6	---	---	4.4	-	-
Pioneer 3950 (MSX)	25.0	---	---	20.5	---	---	5.1	-	-
Great Lakes GL-352 (MSX)	24.8	---	---	16.1	---	---	4.0	-	-
DeKalb XL309 (3X)	24.3	---	---	18.9	---	---	4.6	-	-
Midland M488 (3X)	24.1	27.9	---	18.7	17.5	---	4.5	4.9	-
Pride 1128 (2X)	23.9	32.4	---	20.0	16.5	---	4.8	5.5	-
Michigan 2443 (3X)	23.7	29.3	33.2	21.7	19.6	16.0	5.1	5.6	4.9
Funk G-5048 (4X)	23.7	29.4	31.3	17.5	15.6	13.4	4.2	4.5	4.1
Pride R144 (3X)	23.5	---	---	18.6	---	---	4.4	-	-
Blaney B220 (3X)	23.5	---	---	19.5	---	---	4.6	-	-
Pioneer 3958 (2X)	23.3	---	---	18.7	---	---	4.3	-	-
Garno S-90 (2X)	22.8	---	---	21.5	---	---	4.9	-	-
Michigan 200 (4X)	22.8	31.6	34.8	17.7	15.0	12.6	4.0	4.5	4.1
Funk G-4055 (MSX)	22.5	---	---	17.3	---	---	3.9	-	-
Pioneer 3901 (2X)	22.2	---	---	21.9	---	---	4.9	-	-
Michigan 280 (4X)	20.0	28.0	28.5	20.0	17.9	15.7	4.0	4.9	4.5

(continued)

Table 23 (continued)

Hybrid (Brand-Variety)	% Dry matter		Tons per acre					
			Green weight			Dry weight		
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.
Average	25.6	31.0	33.1	17.7	16.2	13.7	4.5	4.9
Range	20.0	27.9	28.5	11.2	12.8	11.0	3.6	4.3
	32.2	35.0	37.9	21.9	19.6	16.0	5.1	5.6
Least significant difference	1.8	1.3	1.0	1.8	1.2	1.0	0.7	0.5

*No results in 1978. Hail destroyed the plots.

	1979	1977	1976
Planted	May 10	May 3	May 21
Harvested	October 10	October 7	September 24
Soil type	Chatham stony loam	Chatham stony loam	Chatham stony loam
Previous crop	Corn	Oats	Corn
Population	21,300	20,100	17,400
Rows	36"	36"	36"
Fertilizer	110-75-75	117-72-72	111-51-51
Soil test:	pH ---	7.2	7.5
	P ---	161 (very high)	105 (very high)
	K ---	172 (medium)	164 (medium)

Farm Cooperator: Michigan State University, Chatham

County Extension Director: Arvid Norlin, Munising

Cooperator: Dr. Richard Leep, Department of Crop and Soil Sciences, Marquette

Table 24

NORTHERN MICHIGAN
Menominee County Trial - Grain
One, Two, Three Year Averages - 1979, 1978, 1979

Zone 4

Hybrid (Brand-Variety)	% Moisture		Bushels per acre			% Stalk lodging		
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.
Pride 1108 (2X)	23.5	23	---	83.8	69	---	-	10
Warwick W777 (2X)	24.3	---	---	107.1	---	---	-	-
*Northrup King PX11 (2X)	24.4	---	---	112.1	---	---	-	-
Hyland HL-2219 (2X)	24.6	---	---	95.8	---	---	-	-
Jung 2200	24.6	---	---	102.2	---	---	-	-
Funk G-4065 (MSX)	25.0	---	---	89.1	---	---	-	-
Pioneer 3990	26.3	29	---	88.7	73	---	-	10
Trojan T759	26.9	---	---	84.3	---	---	-	-
Blaney B35	26.9	---	---	91.1	---	---	-	-
*Pride 1128 (2X)	27.1	28	30	121.1	94	103	-	3
Garno S-69 (2X)	27.1	---	---	103.8	---	---	-	-
Hyland HL-2216 (2X)	27.6	---	---	103.0	---	---	-	-
Funk G-4082 (3X)	27.9	29	32	94.6	78	88	-	3
Wisconsin W2343	27.9	---	---	84.6	---	---	-	-
DeKalb XL24 (3X)	28.0	---	---	87.5	---	---	-	-
Wisconsin W253	28.8	---	---	78.7	---	---	-	-
Midland M-488 (3X)	29.0	---	---	99.8	---	---	-	-
Funk G-4055 (MSX)	29.1	---	---	73.4	---	---	-	-
Pride R109	29.2	---	---	100.6	---	---	-	-
Trojan TXS82 (2X)	29.3	30	---	94.0	85	---	-	4
Jung 3200	29.7	---	---	103.6	---	---	-	-
Funk G-5048 (4X)	30.0	30	32	92.9	80	93	-	2
Northrup King PX7 (2X)	30.1	31	---	106.8	84	---	-	4
Pride R108 (3X)	30.1	---	---	94.9	---	---	-	-
Pioneer 3978	30.2	30	---	87.3	76	---	-	4
Midland M-385 (3X)	30.2	30	32	85.4	68	77	-	10
Trojan T929	30.5	---	---	98.3	---	---	-	-
*Pride R113	30.8	---	---	116.2	---	---	-	-
Warwick W844 (Sp.)	31.0	---	---	104.0	---	---	-	-
Kaltenberg KX223 (3X)	31.2	---	---	91.2	---	---	-	-
Blaney EX7601 (2X)	31.5	30	33	104.6	82	91	-	1
*Pioneer 3950 (MSX)	31.5	---	---	111.6	---	---	-	-
Wisconsin W273	31.7	---	---	89.6	---	---	-	-
Pickseed 2111 (2X)	31.9	---	---	41.2	---	---	-	-
Kaltenberg KX33 (2X)	32.1	---	---	93.4	---	---	-	-

(continued)

Table 24 (continued)

Hybrid (Brand-Variety)	% Moisture		Bushels per acre			% Stalk lodging		
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.
	1979	yr.	yr.	1979	yr.	yr.	1979	yr.
*DeKalb XL211 (3X)	32.2	---	---	121.0	---	---	-	-
Michigan 2013 (3X)	32.2	29	31	81.1	70	82	-	10
Wisconsin W243	32.3	---	---	99.4	---	---	-	-
Michigan 200 (4X)	32.6	33	34	78.8	67	84	-	6
Northrup King PX419 (3X)	32.8	---	---	83.0	---	---	-	-
Acco UC1124 (2X)	32.8	34	35	86.1	70	90	-	4
Midland M-192	32.9	---	---	104.5	---	---	-	-
*Pioneer 3965A	32.9	36	---	114.6	93	---	-	0
Northrup King PX22 (2X)	33.0	35	---	99.3	96	---	-	1
*Jacques JX32	33.1	---	---	111.4	---	---	-	-
Great Lakes GL-352 (MSX)	33.1	---	---	89.0	---	---	-	-
*Pride 2206 (2X)	33.1	---	---	125.7	---	---	-	-
Funk G-4085 (3X)	33.2	---	---	92.7	---	---	-	-
Warwick W901 (2X)	33.2	---	---	107.4	---	---	-	-
Pride R144 (3X)	33.3	---	---	102.3	---	---	-	-
Garno S-90 (2X)	33.3	---	---	110.6	---	---	-	-
DeKalb XL309 (3X)	33.5	---	---	98.3	---	---	-	-
Funk G-5191 (4X)	33.7	34	36	87.8	82	95	-	2
Kaltenberg K300 (4X)	33.7	---	---	88.5	---	---	-	-
Blaney B302-wx (2X)	34.2	---	---	97.1	---	---	-	-
Pioneer 3958 (2X)	34.2	---	---	110.6	---	---	-	-
*Trojan TXS91 (2X)	34.4	---	---	112.1	---	---	-	-
Midland M-390 (3X)	34.4	35	37	107.7	85	93	-	7
*Michigan 280 (4X)	35.0	37	37	112.4	87	103	-	4
Blaney B302 (2X)	35.0	---	---	85.3	---	---	-	-
Blaney B201 (2X)	35.1	---	---	97.4	---	---	-	-
Trojan TX90 (3X)	35.1	34	36	96.7	84	104	-	5
Michigan 2443 (3X)	35.2	36	36	99.0	81	102	-	5
*Funk G-4195 (3X)	35.4	36	---	112.4	91	---	-	3
Warwick TX27 (3X)	35.7	---	---	99.6	---	---	-	-
Jung 3300	36.2	---	---	108.6	---	---	-	-
*Pioneer 3901 (2X)	37.9	40	---	127.1	105	---	-	2
Hyland HL-3212 (3X)	37.9	---	---	74.5	---	---	-	-
Jung 3500	37.9	---	---	96.0	---	---	-	-
*DeKalb XL15 (2X)	38.2	---	---	120.6	---	---	-	-
*Funk G-4288 (3X)	38.3	---	---	115.6	---	---	-	-
Jacques JX50	38.8	---	---	108.3	---	---	-	-
Anderson SSM (2X)	48.1	45	---	102.7	94	---	-	1
Anderson Silo Filler(4X)	51.2	51	---	92.5	87	---	-	1
Average	32.1	34	34	98.3	82	93	-	4
Range	23.5	23	30	41.2	67	77	-	0
	51.2	51	37	127.1	105	104	-	10
Least significant difference	2.5	1.8	1.2	13.1	8	5	-	-

*Significantly better than average yield in 1979.

No lodging data obtained in 1979.

	1979	1978	1977
Planted	May 16	May 11	May 9
Harvested	October 18	October 11	October 4
Soil type	Onaway loam	Onaway loam	Onaway loam
Previous crop	Corn	Corn	Corn
Population	20,500	20,400	24,100
Rows	30"	30"	30"
Fertilizer	200-92-132 + 22 lbs. S	100-75-75	110-72-72

Farm Cooperator: Nick Thoney, Daggett (1979)

D & C Equipment, Stephenson (1978, 1977)

County Extension Director: Richard A. Breyer, Stephenson

Cooperator: Dr. Richard Leep, Department of Crop and Soil Sciences, Michigan State University, Marquette

Table 25

NORTHERN MICHIGAN
Menominee County Trial - Silage
One, Two, Three Year Averages - 1979, 1978, 1977

Zone 4

Hybrid (Brand-Variety)	% Dry matter			Tons per acre					
	1979	2 yr.	3 yr.	Green weight			Dry weight		
Pride 1108 (2X)	42.1	50.2	---	9.7	8.0	---	4.1	3.9	---
Midland M-385 (3X)	38.9	45.1	45.1	12.4	9.4	10.4	4.8	4.0	4.5
Michigan 2013 (3X)	38.7	45.6	46.8	11.2	9.2	9.9	4.4	4.1	4.6
Pickseed 2111 (2X)	38.5	---	---	9.8	---	---	3.8	---	---
Funk G-4055 (MSX)	38.4	---	---	16.7	---	---	6.4	---	---
Warwick W777 (2X)	37.6	---	---	15.1	---	---	5.7	---	---
Garno S-69 (2X)	37.2	---	---	13.5	---	---	5.0	---	---
Pride R109	37.0	---	---	15.6	---	---	5.8	---	---
Hyland HL-2219 (2X)	36.9	---	---	17.4	---	---	6.4	---	---
Pioneer 3978	36.9	---	---	17.9	---	---	6.6	---	---
Wisconsin 2343	36.6	---	---	13.3	---	---	4.9	---	---
Northrup King PX11(2X)	35.8	---	---	14.8	---	---	5.3	---	---
Funk G-4082 (3X)	35.8	---	---	13.4	---	---	4.8	---	---
Warwick W901 (2X)	35.4	---	---	17.1	---	---	6.1	---	---
Wisconsin 273	35.4	---	---	18.5	---	---	6.5	---	---
Hyland HL-2216 (2X)	35.2	---	---	18.0	---	---	6.3	---	---
Pioneer 3950 (MSX)	35.2	---	---	14.3	---	---	5.0	---	---
Trojan TX582 (2X)	35.1	---	---	20.9	---	---	5.6	---	---
Pride 1128 (2X)	35.0	41.9	42.5	17.3	13.6	15.5	6.0	5.4	6.4
Pioneer 3965A	35.0	---	---	15.6	---	---	5.5	---	---
Jung 3200	34.9	---	---	15.6	---	---	5.5	---	---
Jung 2200	34.5	---	---	13.6	---	---	4.7	---	---
DeKalb DK24 (3X)	34.0	---	---	17.5	---	---	5.9	---	---
Midland M-192	33.7	---	---	16.2	---	---	5.4	---	---
Pride R108 (3X)	33.6	---	---	17.4	---	---	5.8	---	---
Blaney B302-wx (2X)	33.4	---	---	19.7	---	---	6.6	---	---
Michigan 2443 (3X)	33.2	38.4	40.1	17.0	13.3	15.2	5.6	4.9	6.0
Funk G-4065 (MSX)	33.0	---	---	15.9	---	---	5.2	---	---
Pride R113	32.9	---	---	16.5	---	---	5.4	---	---
Kaltenberg KX33 (2X)	32.5	---	---	14.4	---	---	4.7	---	---
Hyland HL-3212 (3X)	32.4	---	---	15.3	---	---	5.0	---	---
Blaney B35 (4X)	32.4	---	---	15.0	---	---	4.9	---	---
Midland M-390 (3X)	31.9	35.5	35.6	17.1	13.2	15.3	5.4	4.5	5.3
Michigan 200 (4X)	31.8	39.1	40.7	11.9	9.6	11.3	3.8	3.6	4.5
Jung 3300	31.6	---	---	20.2	---	---	6.4	---	---
DeKalb XL309 (3X)	31.4	---	---	18.3	---	---	5.8	---	---
Pioneer 3958 (2X)	31.4	---	---	16.2	---	---	5.1	---	---
Northrup King PX7 (2X)	31.4	---	---	17.8	---	---	5.6	---	---
Wisconsin 243	31.3	---	---	16.1	---	---	5.0	---	---
Northrup King PX419 (3X)	31.2	---	---	18.6	---	---	5.8	---	---
Pride R2206 (2X)	31.2	---	---	19.4	---	---	6.1	---	---
Pioneer 3990	31.0	---	---	11.4	---	---	3.5	---	---
Funk G-5048 (4X)	31.0	---	---	15.8	---	---	4.9	---	---
Funk G-4085 (3X)	30.8	39.9	41.3	15.9	11.7	12.8	4.9	4.3	5.1
Funk G-4288 (3X)	30.7	35.6	---	26.1	20.8	---	8.0	7.1	---
Blaney EX7601 (2X)	30.6	39.6	40.1	15.8	11.4	12.5	4.8	4.1	4.8
Trojan T929 (2X)	30.6	---	---	17.2	---	---	5.3	---	---
Midland M-488 (3X)	30.5	---	---	17.3	---	---	5.3	---	---
DeKalb XL211 (3X)	29.9	---	---	19.1	---	---	5.7	---	---
Warwick W844 (Sp.)	29.7	---	---	18.0	---	---	5.3	---	---
Kaltenberg K300 (4X)	29.5	---	---	15.6	---	---	4.6	---	---
Pioneer 3901 (2X)	29.3	34.3	---	15.9	14.2	---	4.6	4.7	---
Jacques JX32	29.1	---	---	12.7	---	---	3.7	---	---
Funk G-4195 (3X)	29.0	35.9	---	22.9	16.3	---	6.6	5.4	---
Acco UC1124 (2X)	28.7	37.7	39.6	18.8	14.2	15.5	5.4	5.0	5.9
Wisconsin 253	28.6	---	---	13.8	---	---	3.9	---	---
Northrup King PX22 (2X)	28.3	33.7	---	20.6	17.5	---	5.8	5.7	---
Kaltenberg KX223(3X)	28.1	---	---	17.0	---	---	4.8	---	---
Michigan 280 (4X)	28.1	34.6	---	18.7	14.6	---	5.2	4.7	---
Garno S-90 (2X)	27.6	---	---	20.9	---	---	5.8	---	---
Funk G-5191 (4X)	27.3	37.1	38.6	22.8	15.7	16.5	6.2	5.1	5.9
Trojan TX90 (3X)	27.5	36.3	38.0	16.9	13.1	14.3	4.6	4.4	5.2
Blaney B201 (2X)	27.1	---	---	17.8	---	---	4.8	---	---
Blaney B302 (2X)	27.1	---	---	19.5	---	---	5.3	---	---
Jung 3500	26.6	---	---	22.6	---	---	6.0	---	---
Pride R144 (3X)	26.5	---	---	18.3	---	---	4.8	---	---
Warwick TX27 (3X)	26.3	---	---	18.9	---	---	5.0	---	---
DeKalb XL15 (2X)	25.6	---	---	23.5	---	---	6.0	---	---
Anderson SSM (2X)	25.5	31.9	---	27.9	21.0	---	7.1	6.2	---
Trojan TXS91 (2X)	25.4	---	---	18.7	---	---	4.7	---	---

Table 25 (continued)

Hybrid (Brand-Variety)	% Dry matter			Tons per acre					
	1979	2 yr.	3 yr.	Green weight			Dry weight		
Great Lakes GL-352 (2X)	25.4	---	---	21.8	---	---	5.3	---	---
Jacques JX50	25.2	---	---	19.4	---	---	4.9	---	---
Anderson Silo Filler (3X)	22.0	26.9	---	28.5	23.6	---	6.2	6.1	---
Average	31.7	37.8	40.2	17.3	14.2	13.9	5.3	7.1	5.3
Range	22.0 to 42.1	26.9 to 50.2	35.6 to 46.8	9.7 to 28.5	8.0 to 23.6	9.9 to 16.5	3.7 to 8.0	3.6 to 7.1	4.5 to 6.4
Least significant difference	2.8	2.1	1.5	2.5	2.0	1.5	1.0	0.8	0.7

	1979	1978	1977
Planted	May 16	May 11	May 9
Harvested	September 19	September 27	September 16
Soil type	Onaway loam	Onaway loam	Onaway loam
Previous crop	Corn	Corn	Corn
Population	21,200	20,300	23,900
Rows	30"	30"	30"
Fertilizer	200-92-132 + 22 lbs. S	100-75-75	110-72-72

Farm Cooperators: Nick Thoney, Daggett (1979)
D & C Equipment, Stephenson (1978, 1977)

County Extension Director: Richard A. Breyer, Stephenson

Cooperator: Dr. Richard Leep, Michigan State University,
Department of Crop and Soil Sciences, Marquette

(continued)

Table 26

NORTHERN MICHIGAN
Houghton County Trial - Grain
One Year Averages - 1979

Zone 4

Hybrid (Brand-Variety)	% Moisture	Bushels per acre	% Stalk lodging
Northrup King PX403 (3X)	31.2	65.1	---
Pioneer 3996	32.2	69.5	---
*Funk G-4065 (MSX)	33.7	123.4	---
Warwick SL207 (2X)	34.0	111.9	---
Midland M475	35.0	93.1	---
Funk G-4055 (MSX)	35.2	105.4	---
DeKalb DK24 (3X)	35.2	109.7	---
Hyland HL-3212 (3X)	35.5	62.3	---
Northrup King KE408 (4X)	35.5	93.8	---
Hyland HL-2217 (2X)	35.7	117.2	---
DeKalb DK23 (4X)	36.2	77.3	---
Jacques JX20 (2X)	36.2	115.0	---
*Northrup King PX414 (3X)	36.3	123.3	---
Payco 3X155N	37.0	99.9	---
Payco 3X227N	37.8	107.0	---
*Northrup King PX11 (2X)	38.1	131.1	---
*Pickseed 2277 (2X)	38.1	137.3	---
DeKalb DK007 (4X)	38.3	98.2	---
Jacques 2X805 (4X)	38.3	101.1	---
Renk R78	38.4	115.9	---
Payco 3X344	39.9	102.7	---
Pride R107 (3X)	40.0	112.1	---
Shuman SH232	40.0	110.3	---
Shuman SH223	40.4	99.3	---
Renk RK3 (2X)	40.4	95.5	---
Shuman SH245	40.9	93.8	---
Midland M380 (3X)	41.0	100.6	---
Pickseed 2262 (2X)	41.9	119.4	---
*Pickseed 4466	42.2	130.4	---
*Pioneer 3965A	42.9	121.4	---
Payco 3X220	43.2	98.2	---
*Hyland HL-2418 (2X)	43.5	132.1	---
Renk R124	46.8	102.7	---
Average	38.2	105.4	---
Range	31.2 to 46.8	62.3 to 137.3	---
Least significant difference	2.9	15.3	---

*Significantly better than average yield in 1979.

No stalk lodging data.

1979

Planted May 18
Harvested November 12
Soil type Munising sandy loam
Previous crop Corn
Population 20,700
Rows 30"
Fertilizer 97-64-32

Farm Cooperator: Tom Mackrain, Chassel

County Extension Director: Keith Raisenen, Houghton

Cooperator: Dr. Richard Leep, Michigan State University, Department of Crop and Soil Sciences, Marquette

Table 27

NORTHERN MICHIGAN
Houghton County Trial - Silage
One Year Averages - 1979

Zone 4

Hybrid (Brand-Variety)	% Dry matter	Tons per acre	
		Green weight	Dry weight
Northrup King PX403 (3X)	31.3	17.4	5.5
Shuman SH232	30.6	21.0	6.4
Renk R78	30.3	19.9	6.1
Warwick SL207 (2X)	30.3	20.6	6.2
Hyland HL-2418 (2X)	30.2	24.7	7.4
Northrup King KE408 (4X)	29.8	17.4	5.2
Payco 3X220	29.6	21.1	6.2
Northrup King PX414 (3X)	29.6	23.0	6.8
Pick 2277 (2X)	29.5	23.3	6.9
Payco 3X 344	29.4	20.8	6.1
Midland M475	29.4	20.1	5.8
Northrup King PX11 (2X)	29.2	22.8	6.7
Hyland HL-2217 (2X)	29.0	24.0	6.9
Jacques JX805 (4X)	28.9	20.2	5.8
Pick 2262 (2X)	28.8	25.4	7.3
Payco 3X 227N	28.7	22.3	6.4
Pride R107 (3X)	28.5	22.3	6.4
Renk RK3 (2X)	28.5	19.7	5.6
Funk G-4055 (MSX)	28.4	19.9	5.7
Shuman SH245	28.4	17.3	4.9
Midland M380 (3X)	28.3	19.0	5.4
Hyland HL-3212 (3X)	27.9	22.7	6.3
Pioneer 3965A	27.6	26.0	7.1
DeKalb DK007 (4X)	27.4	20.4	5.6
Shuman SH223	27.4	19.5	5.3
Pioneer 3994	27.3	19.9	5.4
DeKalb DK24 (3X)	27.2	22.1	6.0
Pickseed 4466	27.1	25.4	6.9
Payco 3X155N	26.9	20.8	5.6
Pioneer 3996	26.3	14.6	3.9
Pioneer 3995	26.2	16.5	4.3
Funk G-4065 (MSX)	25.8	22.3	6.8
Pioneer 3993	25.2	16.8	4.3
DeKalb DK23 (4X)	25.2	18.1	4.6
Renk R124	25.0	26.9	6.7
Jacques JX20 (2X)	24.2	20.9	5.0
Average	28.2	21.0	5.9
Range	24.2 to 31.3	14.6 to 26.9	3.9 to 7.4
Least significant difference	1.9	2.0	0.7

1979

Planted May 18
Harvested October 2
Soil type Munising sandy loam
Previous crop Corn
Population 20,300
Rows 30"
Fertilizer 97-64-32

Farm Cooperator: Tom Mackrain, Chassel

County Extension Director: Keith Raisenen

Cooperator: Dr. R. H. Leep, Michigan State University Extension Specialist, Marquette

Table 28

Index for 496 hybrids entered as 2,266 entries in the 1979 Michigan Corn Performance Trials. Numbers within parentheses refer to table numbers in which the hybrid appears. (2X) indicates a single-cross hybrid, (3X) indicates a three-way hybrid, (4X) indicates a double-cross hybrid, (MSX) indicates a modified single cross and (Sp.) indicates a special-cross hybrid. Company names used in association with hybrid numbers refer to the brand and the numbers are the variety (hybrid) designation.

A	ACCO Seed, Belmond, Iowa 50421	
	Acco UC305 (3X) (21,22)	
	Acco UC334 (3X) (14,15)	
	Acco UC1124 (2X) (21,22,24,25)	
	Acco UC1151 (2X) (11,12,17)	
	Acco UC1905 (2X) (7,9,10,13,16)	
	Acco UC2301 (2X) (17,18)	
	ADI Distributors, Inc., Carmel, Indiana 46032	
	ADI 195 (2X) (13,14,15)	Acco UC2851 (2X) (1,2,6,8,13,16,18)
	ADI 197 (2X) (13,14,15,17)	Acco UC2901 (2X) (11,12)
B	ADI 232 (2X) (13,17)	Acco UC2951 (2X) (3,4,6,7,11,12,13)
	ADI 306 (2X) (13)	Acco UC3002 (2X) (2,3,5,7,8,9,10,14,15,17)
	ADI 315 (2X) (3,14,15,17)	Acco UC3301A (2X) (1,3,4,5,6,14,15)
	The Andersons, Maumee, Ohio 43537	Acco UC4201 (2X) (1,4,5)
	Andersons AX-3 (Sp.) (13,14,15,19,21,22)	
	Andersons AX-4 (Sp.) (1,2,3,6,7,9,10)	
	Andersons Silo Filler (4X) (9,10,14,15,24,25)	
	Asgrow Seed Co., Des Moines, Iowa 50063	
	Asgrow RX29 (4X) (21,22)	Andersons SSA (2X) (13,14,15,19,21,22)
	Asgrow RX37 (3X) (11,12)	Andersons SSE (2X) (1,2,3,6,7,9,10,13)
C	Asgrow RX40 (2X) (11,12)	Andersons SSL (2X) (1,2,3,6)
	Asgrow RX53 (2X) (14,15)	Andersons SSN (2X) (1,2,3,6,24,25)
	Asgrow RX255 (3X) (11,12)	Andersons SSX (2X) (1,2,3,6,7,9,10)
	Bayless Hybrids, Inc., Bluffton, Indiana 46714	
	Bayless SX424 (2X) (3,5)	
	Bayless SX434M (2X) (3,5)	
	Bayless SX637 (2X) (3,5)	
	Blaney Farms, Inc., Madison, Wisconsin 53711	
	Blaney B-AWx (2X) (1,2,5,7)	Blaney B506 (2X) (2,8,14,15,16,17)
	Blaney B35 (4X) (24,25)	Blaney B507 (2X) (13,16,17)
D	Blaney B201 (2X) (19,21,22,24,25)	Blaney B601-wx (2X) (3,5)
	Blaney B220 (3X) (23)	Blaney B605-wx (2X) (9,10,11,12,14,15)
	Blaney B302 (2X) (14,15,16,19,24,25)	Blaney B606 (2X) (1,2,3,5,6,11,12,17)
	Blaney B302-wx (2X) (11,12,17,18,24,25)	Blaney B606E (2X) (1,4,7,9,10,18)
	Blaney B303A (2X) (18)	Blaney B606E-wx (2X) (3,14,15,18)
	Blaney B401 (2X) (3,13,16)	Blaney B703 (2X) (3)
	Blaney B406 (2X) (9,10)	Blaney B805 (2X) (1,3,5)
	Blaney B443 (3X) (11,12)	Blaney EX7305 (2X) (6,7,8)
	Blaney B501A (2X) (2,18)	Blaney EX7601 (2X) (24,25)
	Cargill Seeds, Minneapolis, Minnesota 55440	
E	Cargill 810 (2X) (11,12,14,15)	Cargill 872 (2X) (2,3,5,6,17)
	Cargill 832 (2X) (11,12,14,15)	Cargill 892 (2X) (2,3,5,6,17)
	Cargill 838 (2X) (5,6,11,12,14,15)	Cargill 924 (2X) (2,3,5,6,17)
	Cargill 863 (2X) (7)	
	Cowbell Seeds, Inc., Bradley, Michigan 49311	
	Ancorn 4010 (2X) (7,8,13,14,15,16,17)	Ancorn 7300 (2X) (1,2,3,4,5,7,8,9,10,11,12,13,14,15,16,17)
	Ancorn 4100 (2X) (7,8,9,10,11,12,13,14,15,16,17)	Ancorn 7480 (2X) (1,2,3,4,5,7,8,9,10,11,12,13,14,15,16,17)
	Cust--ize, Inc., Momence, Illinois 60954	

12,13,14,15,16,18,19)	Funk G-4444 (2X) (7,8)
Funk G-4195 (3X) (4,16,17,18,19,20,24,25)	Funk G-4507 (2X) (1,3,5)
Funk G-4224 (MSX) (3,5,6,9,10,11,12,13,14,15,16,17,18)	Funk G-5048 (4X) (20,23,24,25)
Funk G-4252 (3X) (1,8,18)	Funk G-5191 (4X) (19,21,22,24,25)

Garnett-Ross, Inc., Bethesda, Maryland 20014
Garnett-Ross 33 (Sp.) (21,22)
Garnett-Ross 33X29 (Sp.) (21,22)

Garno Seed Co., Inc., Palmyra, Michigan 49268
Garno S-69 (2X) (19,20,23,24,25)
Garno S-82 (2X) (14,15)
Garno S-90 (2X) (1,2,3,4,5,7,8,9,10,11,12,13,14,15,16,17,18,19,20,23,24,25)

Great Lakes Hybrids, Inc., Ovid, Michigan 48866
Great Lakes GL-352 (MSX) (14,15,16,18,19,20,23,24,25)
Great Lakes GL-452 (2X) (1,3,4,5,7,8,9,10,11,12,13,14,15,16,17,18,19)
Great Lakes GL-552 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19)
Michigan 200 (4X) (19,20,21,22,23,24,25)
Michigan 280 (4X) (11,12,13,14,15,16,17,18,19,20,21,22,23,24,25)
Michigan 2013 (3X) (19,20,21,22,23,24,25)
Michigan 2443 (3X) (19,20,21,22,23,24,25)
Michigan 3093 (3X) (11,12,13,14,15,16,17,18,19,20,21,22)
Michigan 333-3X (3X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22)
Michigan 407-2X (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,21,22)
Michigan 4122 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
Michigan 5802 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
Michigan 5912 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
Michigan 5922 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
Michigan 3102 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,21,22)

Fred Gutwein & Sons, Inc., Francesville, Indiana 47946
Gutwein 112 (3X) (2,14,15)
Gutwein 2075 (2X) (11,12,13,14,15)
Gutwein 2140 (2X) (3,11,12,13,14,15)
Gutwein 2250 (2X) (2,7,9,10,13)
Gutwein 2340 (2X) (2,3,5,7)

Hyland Seeds, W. G. Thompson & Sons, Ltd., Laingsburg, Michigan 48848
Hyland HL-2216 (2X) 9,10,19,24,25)
Hyland HL-2217 (2X) 9,10,17,19,26,27)
Hyland HL-2219 (2X) (9,10,23,24,25)
Hyland HL-2418 (2X) (9,10,17,19,26,27)
Hyland HL-2430 (2X) (7,9,10,13,17)
Hyland HL-2440 (2X) (7,9,10,13,17)

Jacques Seed Co., Prescott, Wisconsin 54021
Jacques JX20 (2X) (19,26,27)
Jacques JX21 (19)
Jacques JX25 (2X) (11,12,19,20)
Jacques JX32 (18,23,24,25)
Jacques JX50 (24,25)
Jacques JX52 (2X) (1,19)
Jacques JX90 (2X) (11,12)

Jung Farms, Inc., Randolph, Wisconsin 53597
Jung 2200 (24,25)
Jung 3200 (24,25)
Jung 3300 (24,25)
Jung 3500 (24,25)

Kaltenberg Farms, Waunakee, Wisconsin 53597
Kaltenberg KX33 (2X) (24,25)
Kaltenberg KX54 (2X) (13,14,15,17)
Kaltenberg KX58 (2X) (13,14,15,17)
Kaltenberg KX68 (2X) (13,17)
Kaltenberg KX223 (3X) (24,25)
Kaltenberg K300 (4X) (24,25)

Customize CFS-WX128 (2X) (7,8,17)
Customize CFS 144 (2X) (17)
Customize CFS-WX220(2X) (7)

D

Dairyland Seed Co., Inc., Keewaskum, Wisconsin 53040
Dairyland 1002 (2X) (7,8,11,12,13,14,15)
Dairyland 1005 (2X) (3,7,9,10,16)
Dairyland 1007 (2X) (1,2,3,4)
Dairyland 1007B (2X) (1,3,5,7,8,9,10,11,12,13,16)
Dairyland 1008X (2X) (2,4,5,8,9,10)
Dairyland 1011 (2X) (2,3)

Dekalb Ag Research, Inc., Dekalb, Illinois 60115
Dekalb DK007 (4X) (26,27)
Dekalb XL11 (2X) (6,11,12,16,18,19,20)
Dekalb XL12 (2X) (11,12,14,15)
Dekalb XL13 (2X) (7,8,11,12,13,14,15,16,17,18,19,20)
Dekalb XL15 (2X) (4,6,7,8,11,12,16,17,24,25)
Dekalb DK23 (4X) (26,27)
Dekalb XL23 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,20)
Dekalb DK24 (3X) (19,23,24,25,26,27)
Dekalb XL25 (2X) (11,12,13,14,15)

Dennis Hybrid Corp., Windfall, Indiana
Dennis DS6 (2X) (1,2)
Dennis DS8 (2X) (1,2)
Farm Bureau Services, Lansing, Michigan 48904
Farm Bureau FBS259 (2X) (19)
Farm Bureau FBS265 (2X) (20)
Farm Bureau FBM279 (MSX) (13)
Farm Bureau FBS300 (2X) (8)

Ferry-Morse Seed Co., Geneseo, Illinois
Gold Tag 770 (2X) (1,2,3)
Gold Tag 2060 (2X) (1,2,3,6)

E

Edward J. Funk & Sons, Kentland, Indiana 47951
Super Crost S18 (2X) (11,12)
Super Crost S27 (2X) (11,12,13,14,15)
Super Crost 31 (4X) (21,22)
Super Crost 1210 (2X) (18,19,21,22)
Super Crost 1303 (3X) (11,12,18,19,21,22)
Super Crost 1402 (2X) (11,12,14,15,17,18,19,21,22)
Super Crost 1580 (2X) (9,10,11,12,14,15,17,18)
Super Crost 1590 (2X) (21,22)
Super Crost 1692 (2X) (3,8,9,10,11,12,14,15,17,21,22)
Super Crost 1950 (2X) (1,2,3,5,7,8,9,10,11,12,13,14,15,17,18,21,22)

F

Funk Seeds International, Bloomington, Illinois 61701
Funk G-4040 (2X) (19,21,22)
Funk G-4055 (MSX) (19,23,24,25,26,27)
Funk G-4065 (MSX) (19,23,24,25,26,27)
Funk G-4082 (3X) (24,25)
Funk G-4085 (3X) (14,15,16,19,20,24,25)
Funk G-4141 (2X) (4,21,22)
Funk G-4141A (MSX) (6,9,10,11,12,13,14,15,17,18,21,22)

Lowe Seed Co., Kankakee, Illinois 60901
Lowe LSX100 (2X) (1,5,9,10)
Lowe LSX217 (2X) (1,5,9,10)

M

McCurdy Seed Co., Fremont, Iowa 52561
McCurdy MSX37 (2X) (6,8,9,10)
McCurdy MSX42 (2X) (8,9,10)
McCurdy MSX46 (2X) (5,8,9,10)
McCurdy MSX60 (2X) (5)
McKenzie Seeds, Breckenridge, Michigan 48615
McKenzie 840 (3X) (11,12,13,16,17,19,20)
McKenzie 901 (3X) (11,12,13,16,17,19,20)
Michigan Hybrid Seed Co., East Lansing, Michigan 48823
Wolverine W126 (2X) (8,11,12,14,15,17)
Wolverine W133 (2X) (11,12,14,15,16)
Wolverine W166 (2X) (4,7,9,10,11,12,13,14,15,16)
Midland Cooperative, Minneapolis, Minnesota
Midland M192 (24,25)
Midland M380 (3X) (26,27)
Midland M385 (3X) (23,24,25)

Migro Hybrids, Mitchell, Indiana 47446
Migro HP16 (2X) (1,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
Migro HP20 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
Migro HP23R (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19)
Migro HP27 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
Migro HP34 (2X) (1,2)
Migro SPX49 (2X) (1,2)
M-0101 (2X) (1,3,4,6,8,11,12,13,14,15,16,17,18,19)

N

Northrup King & Co., Minneapolis, Minnesota 55440
Northrup King PX7 (2X) (19,24,25)
Northrup King PX11 (2X) (14,15,18,19,24,25,26,27)
Northrup King PX14 (2X) (19)
Northrup King PX20 (2X) (21,22)
Northrup King PX22 (2X) (9,10,11,12,13,14,15,18,19,24,25)
Northrup King PX24 (2X) (6,9,10,11,12,13,14,15)
Northrup King PX26 (2X) (11,12)
Northrup King PX32 (2X) (4,6,7,8,9,10)
Northrup King PX34 (2X) (18)

O

O's Gold Seed Co., Parkersburg, Iowa 50665
O's Gold SX845 (18)
O's Gold SX940 (2X) (6,18)
O's Gold SX999 (2X) (4,11,12)
O's Gold SX1005 (2X) (8)
O's Gold SX 1040 (19)

OYO Seed Associates, Inc., Marysville, Ohio 43040
OYO 110 (2X) (1,2)
OYO 125 (2X) (1,2)
P-A-G Seeds, Minneapolis, Minnesota 55440
P-A-G SX111 (2X) (11,12,14,15,20)
P-A-G SX145 (2X) (20)
P-A-G SX177 (2X) (7,11,12,14,15)
P-A-G SX189 (2X) (5,6,7,8,9,10,11,12,14,15,17)
P-A-G SX210 (2X) (1)

P

P-A-G SX249 (2X) (1,3,5,6)
P-A-G SX277 (2X) (1,3,5,6)
P-A-G SX397 (2X) (1,3,5,6)
P-A-G Exp. 263048 (2X) (5,6,9,10,11,12,14,15,17)

Roy W. Parker & Sons, Inc., Kimmel, Indiana 46760
Parker 28 (2X) (2) (6)
Parker 36A (2X) (5)
Payco Seeds, Dassel, Minnesota 55325
Payco 3X15N (26,27)
Payco 3X20 (26,27)
Payco 3X227N (26,27)
Payco 3X344 (26,27)
Payco 350 (19)
Payco 3X443 (21,22)
Payco 3X622 (3X) (13,14,15)
Pfizer Genetics, Inc., Olivia, Minnesota 56277
Trojan TXS82 (2X) (23,24,25)
Trojan TX85 (3X) (18,20)
Trojan TX90 (3X) (11,12,19,21,22,24,25)
Trojan TX91 (3X) (24,25)
Trojan TX92 (3X) (1)
Trojan TXS94 (2X) (11,12,14,15,16,18)
Pfizer Chemical and Genetics, Ltd., Blenheim, Ontario
Warwick TX17 (3X) (21,22)
Warwick TX20 (3X) (21,22)
Warwick TX27 (3X) (9,10,24,25)
Warwick SL207 (2X) (21,22,26,27)
Warwick SL501 (Sp.) (2,3)
Warwick W777 (2X) (19,21,22,23,24,25)
Roy W. Parker & Sons, Inc., Kimmel, Indiana 46760
Parker 28 (2X) (2) (6)
Parker 36A (2X) (5)
Payco Seeds, Dassel, Minnesota 55325
Payco 3X15N (26,27)
Payco 3X20 (26,27)
Payco 3X227N (26,27)
Payco 3X344 (26,27)
Payco 350 (19)
Payco 3X443 (21,22)
Payco 3X622 (3X) (13,14,15)
Pfizer Genetics, Inc., Olivia, Minnesota 56277
Trojan TXS82 (2X) (23,24,25)
Trojan TX85 (3X) (18,20)
Trojan TX90 (3X) (11,12,19,21,22,24,25)
Trojan TX91 (3X) (24,25)
Trojan TX92 (3X) (1)
Trojan TXS94 (2X) (11,12,14,15,16,18)
Pfizer Chemical and Genetics, Ltd., Blenheim, Ontario
Warwick TX17 (3X) (21,22)
Warwick TX20 (3X) (21,22)
Warwick TX27 (3X) (9,10,24,25)
Warwick SL207 (2X) (21,22,26,27)
Warwick SL501 (Sp.) (2,3)
Warwick W777 (2X) (19,21,22,23,24,25)
RBA Super 4+ (Sp.) (1)
RBA 94 (2X) (2)
RBA 104+ (2X) (1,2)
Renk Seed Co., Sun Prairie, Wisconsin 53590
Renk RK3 (2X) (21,22,26,27)
Renk RK6 (2X) (11,12)
Renk RK15 (2X) (3,5,7,9,10,11,12)
Renk RK40 (2X) (3,5,7,9,10,11,12)
Renk RK44 (2X) (9,10)
Renk RK66 (2X) (3,5,7,9,10,11,12)
Robson Seed Farms, Corp., Hall, New York 14463
Seneca PC14 (2X) (19,21,22)
Seneca 140 (3X) (19,21,22)
Seneca 149 (3X) (11,12,18)
Seneca 321 (3X) (7,9,10)
Rupp Seed Farms, Mauseon, Ohio 43567
Rupp XR1595E (2X) (1,2,3,5)
Rupp XR1625 (2X) (1,2,3,5)
Select Seed Hybrids, Camden, Indiana 46917
Select Seeds 1400 (MSX) (7,17)
Select Seeds 3100 (2X) (2,3,4,5,7,8)
Select Seeds 3300 (2X) (2,3)
Select Seeds 4700 (2X) (5)
Select Seeds 5100 (2X) (3)
Shuman Hybrids
Shuman SH223 (26,27)
Shuman SH232 (26,27)
Shuman SH245 (26,27)
Solar Seed Service, Colon, Michigan 49040
Solar 1101 (2X) (3)
Solar 1301 (2X) (3)
Solar 1602 (2X) (3)
Sommer Bros. Seed Co., Pekin, Illinois 61554
Golden Harvest Exp. 517 (2X) (2,5)
Golden Harvest H-2230 (MSX) (20,21,22)
Golden Harvest H-2239 (MSX) (9,10,14,15,18,20)
Golden Harvest H-2340 (2X) (6,8,14,15)
Golden Harvest H-2370 (2X) (1,9,10,11,12,13,14,15,20,21,22)
Golden Harvest H-2373 (2X) (8,9,10,11,12,13,14,15,16)
U. S. Steel Agri-Chemicals, Atlanta, Georgia 30301
USS U8543 (2X) (21,22)
Vistron Corp., Lima, Ohio 45802
Sohigro S15 (2X) (11,12)
Sohigro S22 (2X) (13,14,15,16)
Voris Seeds, Inc., Windfall, Indiana 46076
Vorix X441 (2X) (3,5,6,9,10)
Vorix 2271 (Sp.) (21,22)
Vorix 2321 (Sp.) (13,14,15,21,22)
Vorix 2352 (Sp.) (11,12,13,14,15,16)
Vorix 2372 (2X) (6,7,9,10,11,12,13,14,15,16)
Wisconsin Hybrids
Wisconsin 243 (24,25)
Wisconsin 253 (24,25)

S

Roy W. Parker & Sons, Inc., Kimmel, Indiana 46760
Parker 28 (2X) (2) (6)
Parker 36A (2X) (5)
Payco Seeds, Dassel, Minnesota 55325
Payco 3X15N (26,27)
Payco 3X20 (26,27)
Payco 3X227N (26,27)
Payco 3X344 (26,27)
Payco 350 (19)
Payco 3X443 (21,22)
Payco 3X622 (3X) (13,14,15)
Pfizer Genetics, Inc., Olivia, Minnesota 56277
Trojan TXS82 (2X) (23,24,25)
Trojan TX85 (3X) (18,20)
Trojan TX90 (3X) (11,12,19,21,22,24,25)
Trojan TX91 (3X) (24,25)
Trojan TX92 (3X) (1)
Trojan TXS94 (2X) (11,12,14,15,16,18)
Pfizer Chemical and Genetics, Ltd., Blenheim, Ontario
Warwick TX17 (3X) (21,22)
Warwick TX20 (3X) (21,22)
Warwick TX27 (3X) (9,10,24,25)
Warwick SL207 (2X) (21,22,26,27)
Warwick SL501 (Sp.) (2,3)
Warwick W777 (2X) (19,21,22,23,24,25)
Otto Pick & Sons, Ltd., Richmond Hill, Ontario
Pickseed 185 (Sp.) (21,22)
Pickseed 211 (2X) (19,21,22,24,25)
Pickseed 2262 (2X) (19,21,22,26,27)
Pickseed 2277 (2X) (19,21,22,26,27)
Pioneer Hi-Bred International, Inc., Tipton, Indiana 46072
Pioneer 3518 (MSX) (7)
Pioneer 3535 (2X) (1,2,3,4,5,6,7,8,9,10)
Pioneer 3541 (2X) (1,2,3,4,5,6,7,9,10)
Pioneer 3780 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
Pioneer 3901 (2X) (1,2,3,4,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25)
Pioneer 3950 (MSX) (11,12,13,14,15,16,17,18,19,20,23,24,25)
Prairie Stream Farms, Inc., Frankfort, Indiana 46041
Prairie Stream SX33 (2X) (5)
Pride Seed, Inc., Carson City, Michigan 48811
Pride R107 (3X) (21,22,26,27)
Pride R108 (3X) (19,20,23,24,25)
Pride R109 (3X) (24,25)
Pride R113 (3X) (24,25)
Pride R144 (3X) (16,18,19,20,21,22,23,24,25)
Pride R319 (3X) (14,15,16)
Pride R549 (3X) (5,9,10,11,12)
Pride I108 (2X) (21,22,23,24,25)
Pride I128 (2X) (19,20,21,22,23,24,25)
RBA Seeds, Olivia, Minnesota 56277
RBA Super 4 (2X) (1)
RBA Super 4+ (Sp.) (1)
RBA 94 (2X) (2)
RBA 104+ (2X) (1,2)
Renk Seed Co., Sun Prairie, Wisconsin 53590
Renk RK3 (2X) (21,22,26,27)
Renk RK6 (2X) (11,12)
Renk RK15 (2X) (3,5,7,9,10,11,12)
Renk RK40 (2X) (3,5,7,9,10,11,12)
Renk RK44 (2X) (9,10)
Renk RK66 (2X) (3,5,7,9,10,11,12)
Robson Seed Farms, Corp., Hall, New York 14463
Seneca PC14 (2X) (19,21,22)
Seneca 140 (3X) (19,21,22)
Seneca 149 (3X) (11,12,18)
Seneca 321 (3X) (7,9,10)
Rupp Seed Farms, Mauseon, Ohio 43567
Rupp XR1595E (2X) (1,2,3,5)
Rupp XR1625 (2X) (1,2,3,5)
Select Seed Hybrids, Camden, Indiana 46917
Select Seeds 1400 (MSX) (7,17)
Select Seeds 3100 (2X) (2,3,4,5,7,8)
Select Seeds 3300 (2X) (2,3)
Select Seeds 4700 (2X) (5)
Select Seeds 5100 (2X) (3)
Shuman Hybrids
Shuman SH223 (26,27)
Shuman SH232 (26,27)
Shuman SH245 (26,27)
Solar Seed Service, Colon, Michigan 49040
Solar 1101 (2X) (3)
Solar 1301 (2X) (3)
Solar 1602 (2X) (3)
Sommer Bros. Seed Co., Pekin, Illinois 61554
Golden Harvest Exp. 517 (2X) (2,5)
Golden Harvest H-2230 (MSX) (20,21,22)
Golden Harvest H-2239 (MSX) (9,10,14,15,18,20)
Golden Harvest H-2340 (2X) (6,8,14,15)
Golden Harvest H-2370 (2X) (1,9,10,11,12,13,14,15,20,21,22)
Golden Harvest H-2373 (2X) (8,9,10,11,12,13,14,15,16)
U. S. Steel Agri-Chemicals, Atlanta, Georgia 30301
USS U8543 (2X) (21,22)
Vistron Corp., Lima, Ohio 45802
Sohigro S15 (2X) (11,12)
Sohigro S22 (2X) (13,14,15,16)
Voris Seeds, Inc., Windfall, Indiana 46076
Vorix X441 (2X) (3,5,6,9,10)
Vorix 2271 (Sp.) (21,22)
Vorix 2321 (Sp.) (13,14,15,21,22)
Vorix 2352 (Sp.) (11,12,13,14,15,16)
Vorix 2372 (2X) (6,7,9,10,11,12,13,14,15,16)
Wisconsin Hybrids
Wisconsin 243 (24,25)
Wisconsin 253 (24,25)

U

U. S. Steel Agri-Chemicals, Atlanta, Georgia 30301
USS U8543 (2X) (21,22)

V

Vistron Corp., Lima, Ohio 45802
Sohigro S15 (2X) (11,12)
Sohigro S22 (2X) (13,14,15,16)

Voris Seeds, Inc., Windfall, Indiana 46076
Vorix X441 (2X) (3,5,6,9,10)
Vorix 2271 (Sp.) (21,22)
Vorix 2321 (Sp.) (13,14,15,21,22)
Vorix 2352 (Sp.) (11,12,13,14,15,16)
Vorix 2372 (2X) (6,7,9,10,11,12,13,14,15,16)
Wisconsin Hybrids
Wisconsin 243 (24,25)
Wisconsin 253 (24,25)

W

Wisconsin Hybrids
Wisconsin 243 (24,25)
Wisconsin 253 (24,25)

Wisconsin 273 (24,25)
Wisconsin 2343 (24,25)

R