

Michigan Corn Production

HYBRIDS COMPARED 1981

Cooperative Extension Service
Michigan State University

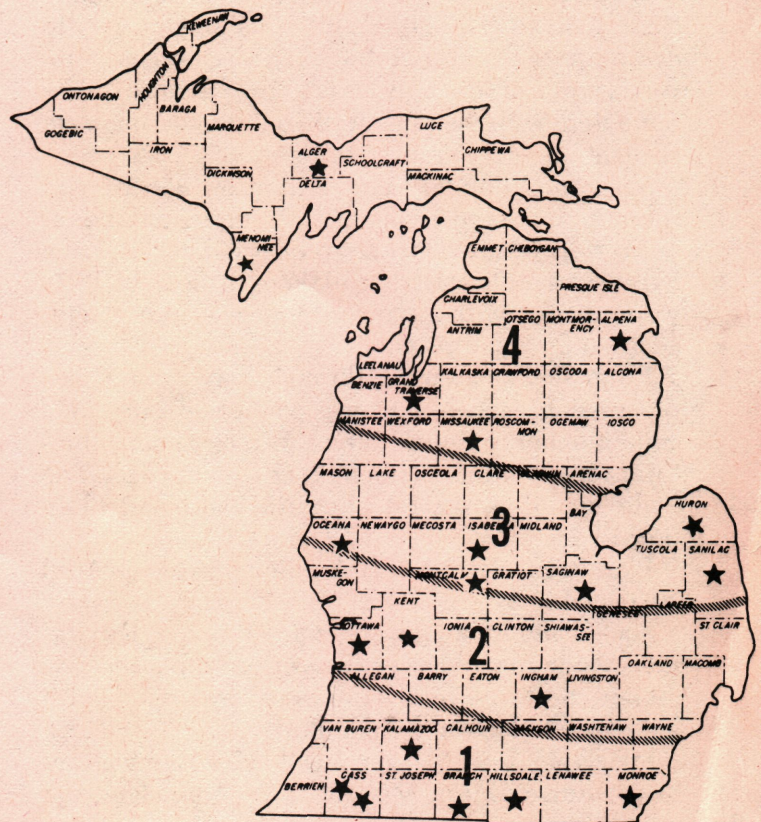
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HYBRID CORN TRIALS are conducted each year by the Michigan Experiment Station in cooperation with the Cooperative Extension Service, Michigan Crop Improvement Association, seed corn companies and farmers.

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

Highest yielding corn hybrids in the 1980 trials produced 36 bushels more corn per acre than the average of 435 hybrids tested and 74 bushels more than the lowest yield hybrids tested (Table A). The respective yields were 158, 122, and 84 for the highest, average and lowest yielding hybrids at the 20 testing locations. The driest hybrids at harvest contained 4% less moisture than the average and 9% less moisture than the wettest hybrids tested. Stalk breakage averaged 26%, 8% 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 26 presents an index of all hybrids entered in the 1980 trials. 435 hybrids were tested as 2,272 entries at 20 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.

Planting of all trials was completed between April 30 and May 24.

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, and

Menominee Counties trials (Tables 10, 12, 15, 20, 22, 25). The Sanilac County silage trial was on a different farm than the grain trial.

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 (15,500 to 27,400) were tested at 17 locations (Table B). Hybrid x population interactions were not significant, so only the averages are reported. The 19,400 average population produced the highest yield at 15 of the 17 locations. The two locations, Cass and Montcalm counties, where 23,300 population produced the highest yield were irrigated trials. When averaged for all locations, 19,400 average plant population produced 15.9, 3.9 and 12.5 bushels more than populations of 15,500, 23,300 and 27,400, respectively. Moisture content of grain averaged .3% to .9% more for the highest populations. There was a noticeable trend toward increased stalk lodging as plant population was increased.

Moisture and temperature were near optimum at most locations throughout the growing season. July and August rainfall was better than normal. Most corn matured before killing frosts.

The Michigan Crop Reporting Service estimates that a total of 2,950,000 acres were planted to corn, 2% more than 1979. About 2,450,000 acres were harvested for grain and the rest for silage. The average yield is estimated at 97 bushels per acre, a new record high state average for Michigan. The previous highs were 95 in 1979 and 85 in 1977. The total crop is estimated at 237,650,000 bushels.

HOW TO USE THIS BULLETIN

One two- and three-year averages are presented for all hybrids tested during 1980, 1979 and 1978.

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 (fodder plus grain) in the silage trials.

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

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

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

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

HOW TO CHOOSE A HYBRID

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

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

Planting Rate — High plant populations (20,000 or more per acre) should be considered only for soils consistently producing more than 100 bushels per acre. Rainfall deficiencies with high plant populations usually result in no increase and frequently a decrease in yield compared to 18,000 to 19,000 plants per acre. Lodging and harvest losses are often greater at higher populations.

Maturity — Hybrids are listed in the tables in order of maturity — early to late — based on moisture content of the grain at harvest. This is usually a reasonably accurate measure of relative maturity in most years in Michigan. Early-maturing hybrids will be generally lower in moisture content than later-maturing hybrids. 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 produc-

tion. Stalk rot is a disease of old age in that these fungi increase rapidly after the plant has matured or when the plant has died prematurely. Highest incidence of stalk rot occurs in years when corn matures early and when harvest is delayed. Infection and disease development are favored by warm humid weather with abundant rainfall during the latter part of the growing season.

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

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

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

TO AVOID MOLDY CORN IN 1981

The following recommendations will help avoid moldy corn in 1981:

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 un dependable in Michigan. Ready access to drying facilities will permit more timely harvest with less harvest loss and more corn profits.

SEED SUPPLIES FOR 1981

Hot dry weather in some of the major hybrid seed corn producing areas resulted in low yields of seed corn in 1980. Fortunately, most seed companies have a good supply of carry-over seed from the large seed crop of 1979. The total seed corn supply for 1981 is adequate.

Table A

AVERAGE, HIGHEST AND LOWEST MOISTURE CONTENT,
GRAIN YIELD, AND STALK LODGING AT 19 LOCATIONS
IN 1980

Location - County	No. of hybrids	%Moisture			Bushel per acre			%Stalk lodging		
		Average	Highest	Lowest	Average	Highest	Lowest	Average	Highest	Lowest
Monroe	126	21.2	25.5	17.2	125.4	163.2	91.4	7.9	30.0	0.0
Hillsdale	103	24.7	29.6	20.9	135.9	173.8	98.8	2.3	8.3	0.0
Branch	131	21.4	25.7	18.1	128.8	166.0	81.4	3.2	16.9	0.0
Kalamazoo	82	22.1	25.4	19.4	137.0	167.5	103.1	3.7	12.8	0.0
Cass-Upland irrigated	140	24.0	28.9	19.4	151.4	193.2	121.6	3.0	13.1	0.0
Cass-Muck soil	70	21.9	26.4	17.9	102.1	136.7	64.6	13.4	29.8	2.3
Kent	110	23.8	28.3	20.1	141.5	171.4	105.9	3.9	12.3	0.0
Ottawa	71	20.7	24.9	18.3	113.8	151.2	86.2	8.3	23.9	0.7
Ingham	138	29.7	34.1	24.3	141.8	177.3	99.3	0.0	3.0	0.0
Sanilac	108	24.7	30.2	19.3	121.2	154.4	88.5	0.8	6.4	0.0
Saginaw	111	24.5	28.9	20.5	137.3	168.8	79.1	2.0	22.8	0.0
Huron	120	24.3	31.0	19.6	111.6	150.1	60.8	20.9	71.2	4.8
Isabella	65	26.2	30.6	22.2	125.6	159.3	87.4	4.2	16.8	0.0
Montcalm-Irrigated	71	24.9	30.8	21.1	125.8	167.8	73.7	15.3	35.2	0.7
Montcalm-Not irrigated	71	24.9	30.8	21.1	114.2	156.5	65.1	14.9	38.8	1.5
Oceana	48	23.8	27.1	21.1	110.7	138.2	85.4	3.5	10.4	0.0
Grand Traverse	51	24.2	34.9	22.0	89.3	130.8	65.8	8.4	28.2	1.4
Alpena	64	26.0	33.5	22.0	75.8	99.2	55.7	24.7	56.4	5.3
Menominee	49	30.8	37.3	24.6	128.2	179.0	80.1	19.0	53.5	3.4
Average		24.4	29.7	20.5	122.0	158.1	83.9	8.4	26.2	1.1

Table B

AVERAGE GRAIN YIELD, % MOISTURE AND STALK LODGING
AT FOUR PLANT POPULATIONS FOR 17 LOCATIONS IN 1980

Location - County	Bushels per acre				% Moisture in Grain				% Stalk lodging			
	15,500	19,400	23,300	27,400	15,500	19,400	23,300	27,400	15,500	19,400	23,300	27,400
Monroe	136.5	151.4	147.3	139.4	22.9	23.4	23.8	23.9	1.3	4.4	6.7	12.8
Hillsdale	141.5	160.2	153.8	147.3	27.5	27.7	28.4	28.8	0.0	1.5	1.9	8.7
Branch	132.6	152.1	146.4	135.2	23.1	23.3	23.2	24.1	0.7	3.1	7.4	10.1
Kalamazoo	137.7	155.3	150.1	139.6	23.4	23.8	24.0	24.5	0.0	3.2	5.8	9.6
Cass-Upland irrigated	149.8	164.6	176.3	152.9	26.3	26.4	26.7	27.2	1.3	1.8	4.2	8.7
Cass-Muck soil	108.9	124.6	123.7	113.2	24.3	24.6	24.7	25.0	2.8	4.3	8.2	16.1
Kent	139.5	158.7	151.4	143.7	26.3	26.8	27.2	28.0	0.8	5.0	7.9	10.2
Ottawa	124.3	139.3	137.5	129.1	22.1	22.3	22.1	23.1	3.6	5.9	8.1	16.7
Ingham	139.7	161.4	148.7	140.9	31.9	32.1	32.5	33.4	0.0	0.7	0.8	4.7
Sanilac	124.4	138.9	133.7	122.5	27.1	27.0	27.2	27.9	0.0	1.3	2.0	5.0
Saginaw	138.9	155.2	147.6	141.8	26.5	26.3	26.6	27.1	1.8	3.0	7.1	16.2
Huron	127.5	138.8	135.4	130.7	28.3	28.4	28.7	29.0	3.4	4.0	9.7	20.1
Isabella	125.2	141.4	136.8	130.9	27.0	27.3	27.2	28.2	0.0	0.7	4.2	11.4
Montcalm-Irrigated	132.6	146.2	149.7	141.4	25.4	25.7	25.9	26.8	0.0	2.2	6.1	12.8
Montcalm-Not irrigated	123.1	134.7	130.5	123.6	25.7	26.0	26.4	26.9	0.7	2.8	5.5	14.1
Oceana	110.3	124.3	117.0	114.1	24.6	25.0	25.2	26.0	0.7	2.2	3.5	8.3
Grand Traverse	101.7	117.2	112.7	105.8	25.2	25.3	25.5	26.2	2.1	3.3	7.9	12.5
Average	129.1	145.0	141.1	132.5	25.7	26.0	26.2	26.6	1.1	2.9	5.7	11.3

Table 1

SOUTHERN MICHIGAN
Monroe County Trial
One, Two, Three Year Averages - 1980, 1979, 1978

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1980	yr.	yr.	1980	yr.	yr.	1980	yr.	yr.
Rupp XRI490 (2X)	17.2	--	--	92.9	---	---	15.6	-	-
Pro Seed PS175 (2X)	17.3	--	--	93.5	---	---	10.8	-	-
Pro Seed PS190 (2X)	17.6	--	--	93.5	---	---	24.2	-	-
Pro Seed PS150 (2X)	18.3	--	--	91.4	---	---	6.0	-	-
Michigan 333-3X (3X)	18.4	19	18	106.3	105	106	7.6	5	5
Garno S-94 (2X)	18.4	--	--	108.2	---	---	6.3	-	-
Andersons SSA (2X)	18.5	--	--	93.0	---	---	20.5	-	-
Andersons SSE (2X)	18.7	21	20	124.8	132	122	17.8	10	9
Garno S-95Y (2X)	18.8	--	--	121.2	---	---	13.9	-	-
Farmers Exp. 227 (MSX)	18.9	--	--	103.6	---	---	18.1	-	-
Rupp XRI619 (2X)	18.9	--	--	132.2	---	---	10.3	-	-
Michigan 3102 (2X)	18.9	20	19	130.2	117	117	7.1	4	4
Leader SX480A (2X)	19.1	--	--	129.2	---	---	18.1	-	-
Payco SX844 (2X)	19.1	21	20	124.5	130	122	1.5	2	4
Pioneer 3901 (2X)	19.2	20	19	115.8	113	115	8.5	4	4
DeKalb XL25a (2X)	19.3	21	--	130.1	130	---	4.2	2	-
Rupp XRI591 (2X)	19.4	--	--	98.2	---	---	3.9	-	-
O's Gold SX1107 (2X)	19.4	21	20	129.6	138	134	4.9	2	3
Payco SX637 (2X)	19.4	--	--	128.0	---	---	18.4	-	-
Dennis DS3 (2X)	19.6	--	--	104.5	---	---	11.2	-	-
Pro Seed PS145 (2X)	19.6	--	--	94.0	---	---	17.6	-	-
Pro Seed PS220 (2X)	19.6	--	--	107.4	---	---	8.8	-	-
Jacques JX147 (2X)	19.6	--	--	113.6	---	---	30.0	-	-
Low LSX100 (2X)	19.7	22	--	121.6	122	---	4.5	3	-
*O's Gold SX1170 (2X)	19.7	--	--	139.1	---	---	7.2	-	-
Farmers 224A (MSX)	19.7	--	--	130.3	---	---	10.6	-	-
Pro Seed PS155 (2X)	19.7	--	--	91.9	---	---	9.0	-	-
Michigan 407-2X (2X)	19.7	20	20	126.7	124	119	8.4	6	7
Dairyland DX1004 (2X)	19.8	--	--	120.1	---	---	7.3	-	-
Payco Exp. SX620 (2X)	19.8	--	--	105.5	---	---	7.5	-	-
Garno S-90 (2X)	19.9	20	--	129.6	122	---	4.3	5	-
Super Crost 2350 (2X)	19.9	21	21	129.1	124	117	5.8	4	5
Garno S-101 (2X)	19.9	--	--	102.4	---	---	7.1	-	-
DeKalb XL32a (2X)	20.0	--	--	117.7	---	---	5.8	-	-
Golden Harvest H-2370 (2X)	20.1	21	--	103.5	102	---	14.5	7	-
Migro HP20 (2X)	20.1	21	--	110.3	105	---	7.7	5	-
Low LSX217 (2X)	20.1	22	--	135.0	125	---	5.0	3	-
Gries X408 (2X)	20.1	--	--	122.5	---	---	20.7	-	-
Amcorn ZX5500 (2X)	20.1	--	--	134.2	---	---	7.4	-	-
Pro Seed PS240 (2X)	20.1	--	--	130.4	---	---	12.5	-	-
Gold Tag 2006 (2X)	20.1	--	--	127.3	---	---	5.9	-	-
Payco SX888 (2X)	20.1	--	--	97.5	---	---	9.4	-	-
Pioneer 3780 (2X)	20.1	21	20	120.1	118	114	8.3	5	6
*Northrup King PX39 (2X)	20.2	--	--	148.2	---	---	3.1	-	-
Amcorn PSX7480 (2X)	20.2	21	20	118.1	122	120	20.4	10	8
Migro M-2022X (2X)	20.2	22	21	114.7	121	114	7.6	6	5
Voris V2411 (2X)	20.2	--	--	105.6	---	---	8.5	-	-
*Northrup King PX37 (2X)	20.3	--	--	148.6	---	---	15.9	-	-
Blaney B606E (2X)	20.3	22	21	117.1	121	117	14.7	8	6
Low LSX222 (2X)	20.4	22	--	119.7	117	---	8.2	5	-
Super Crost 79028 (2X)	20.5	--	--	104.2	---	---	9.9	-	-
Funk G-4315 (MSX)	20.5	--	--	127.4	---	---	11.6	-	-
Andersons SSM (2X)	20.5	22	20	132.8	138	120	6.2	3	5
*Pro Seed PS200 (2X)	20.6	--	--	148.9	---	---	6.9	-	-
*Blaney B606 (2X)	20.6	22	21	145.0	140	130	4.4	4	3
*Funk G-4323 (MSX)	20.7	22	--	141.1	131	---	5.1	3	-
Amcorn ZX6500 (2X)	20.7	--	--	111.7	---	---	11.5	-	-
Pride 5589 (2X)	20.7	22	--	128.5	131	---	5.7	3	-
Andersons SSX (2X)	20.8	22	--	112.5	126	---	0.8	1	-
*Leader SX510 (2X)	20.8	--	--	147.3	---	---	7.8	-	-
*Pioneer X6459 (MSX)	20.8	--	--	142.1	---	---	13.7	-	-
Dairyland DX1007B (MSX)	20.8	22	--	137.9	129	---	4.5	4	-
Pro Seed PS185 (2X)	20.9	--	--	109.8	---	---	3.5	-	-
Payco SX808 (2X)	20.9	--	--	108.5	---	---	10.7	-	-
Gold Tag 2060 (MSX)	21.0	22	21	120.5	124	115	5.7	3	4
Migro M-2018X (2X)	21.0	22	21	104.5	118	110	8.0	4	4
Garno S-99 (2X)	21.0	--	--	125.4	---	---	7.9	-	-
Rupp XRI624 (2X)	21.0	--	--	100.6	---	---	10.5	-	-
Acco UC2851 (2X)	21.1	22	21	112.5	118	114	7.1	4	8
Pride 4488 (2X)	21.1	22	--	130.1	132	---	3.1	2	-
*Pioneer 3572 (2X)	21.1	--	--	138.7	---	---	0.0	-	-
Trojan T1058 (2X)	21.2	22	--	100.1	100	---	9.6	6	-
Gries X500 (2X)	21.2	--	--	132.5	---	---	11.7	-	-
Northrup King PX49 (2X)	21.2	22	21	114.6	124	121	7.5	5	7
*Great Lakes GL-552 (2X)	21.3	22	--	142.2	138	---	2.2	1	-

Table 1 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1980	yr.	yr.	1980	yr.	yr.	1980	yr.	yr.
Payco SX756 (2X)	21.4	--	--	121.1	---	---	4.6	-	-
Pro Seed PS260 (2X)	21.4	--	--	126.0	---	---	5.4	-	-
Voris V2441 (2X)	21.4	--	--	132.3	---	---	5.3	-	-
Amcorn, SP9000 (2X)	21.5	--	--	134.6	---	---	4.1	-	-
Research Ventures RVI3261 (2X)	21.5	--	--	119.9	---	---	10.2	-	-
*Migro HP27 (2X)	21.5	22	--	140.9	135	---	10.1	5	-
*Northrup King PX59 (2X)	21.5	22	--	149.0	142	---	8.5	6	-
Rupp XRI625 (2X)	21.6	22	--	127.4	138	---	8.6	5	-
Jacques JX177 (2X)	21.6	--	--	119.7	---	---	7.9	-	-
*Pro Seed PS225 (2X)	21.6	--	--	144.3	---	---	7.5	-	-
Dairyland DX1007 (2X)	21.6	22	21	117.6	123	119	4.8	4	7
Leader SX500A (2X)	21.6	--	--	121.6	---	---	5.7	-	-
Migro HP23R (2X)	21.7	23	--	114.0	120	---	5.0	3	-
Acco UC3751 (2X)	21.7	--	--	121.3	---	---	10.4	-	-
Voris V2472 (2X)	21.7	--	--	119.9	---	---	9.4	-	-
*Garno S-100 (2X)	21.7	22	22	138.9	135	126	8.2	5	5
Blaney B606-wx (2X)	21.9	--	--	128.8	---	---	13.6	-	-
*Michigan 5922 (2X)	21.9	23	22	148.5	143	136	3.1	2	2
Rupp XRI690 (2X)	22.1	--	--	116.6	---	---	4.7	-	-
Dennis DS47A (2X)	22.2	--	--	118.9	---	---	6.2	-	-
Dennis DS6 (2X)	22.3	23	21	137.7	135	128	8.5	8	6
*Migro HP470 (2X)	22.3	--	--	157.3	---	---	2.3	-	-
*Pro Seed PS230 (2X)	22.3	--	--	145.3	---	---	4.2	-	-
Golden Harvest H-2448 (2X)	22.4	--	--	134.4	---	---	2.3	-	-
Gold Tag 2062 (3X)	22.4	--	--	119.0	---	---	0.9	-	-
P-A-G SX249 (2X)	22.6	23	22	122.0	120	117	3.1	2	6
*Pioneer 3535 (2X)	23.0	24	23	160.4	146	129	2.9	1	1
*DeKalb XL55a (2X)	23.0	24	--	142.6	137	---	5.7	6	-
Pioneer 3541 (2X)	23.1	24	22	129.8	135	127	6.5	4	3
Super Crost 2396 (2X)	23.2	--	--	126.9	---	---	0.8	-	-
*Andersons SSL (2X)	23.3	26	--	142.0	129	---	6.9	4	-
*Leader SX610 (2X)	23.4	--	--	143.2	---	---	9.9	-	-
Super Crost 3177 (2X)	23.4	--	--	120.9	---	---	2.9	-	-
*Asgrow RX90 (2X)	23.4	--	--	152.8	---	---	6.1	-	-
*Migro SPX49 (2X)	23.5	24	--	160.0	146	---	5.7	6	-
Trojan TXS115A (2X)	23.9	26	25	131.8	142	130	4.4	3	4
*Dennis DS25 (2X)	23.9	--	--	162.1	---	---	11.9	-	-
*O's Gold SX500A (2X)	24.2	--	--	148.3	---	---	1.4	-	-
*Voris V2491 (2X)	24.3	--	--	163.2	---	---	2.2	-	-
Blaney B805 (2X)	24.3	25	24	136.4	142	128	5.6	3	4
Funk G-4507 (2X)	24.5	25	24	133.8	142	132	4.1	2	2
Jacques JX179 (2X)	24.5	--	--	131.6	---	---	5.3	-	-
Pride 7715 (2X)	24.5	25	24	137.1	145	134	9.8	6	5
*Rupp XRI780 (2X)	24.6	--	--	141.2	---	---	6.8	-	-
Asgrow RX777 (2X)	24.6	--	--	123.7	---	---	2.4	-	-
Low LSX317 (2X)	24.7	--	--	134.0	---	---	0.8	-	-
Leader 3550 (3X)	24.8	--	--	109.4	---	---	5.7	-	-
Dennis DS36 (2X)	25.2	--	--	116.2	---	---	3.5	-	-
Golden Harvest H-2500 (2X)	25.4	26	25	134.5	139	129	5.7	3	2
*Migro M-0505 (2X)	25.5	--	--	154.1	---	---	3.0	-	-
Average	21.2	22	21	125.4	128	122	7.9	4	5
Range	17.2	19	18	91.4	100	106	0.0	1	1
	to	to	to	to	to	to	to	to	to
	25.5	26	25	163.2	146	136	30.0	10	9
Least significant differences	1.3	0.8	0.7	13.1	7	5	-	-	-

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 5	May 9	May 2
Harvested	October 29	November 20	October 24
Soil type	Pewamo clay loam	Pewamo clay loam	Pewamo clay loam
Previous crop	Corn	Corn	Corn
Population	20,900	20,500	19,300
Rows	30"	30"	30"
Fertilizer	150-102-150	201-189-189	213-147-147
Soil test: pH	6.9	6.1	6.7
P	209 (very high)	305 (very high)	111 (very high)
K	447 (very high)	442 (very high)	260 (high)

Farm Cooperator: Orville Montri, LaSalle

County Extension Director: Paul Nevel, Monroe

Table 2

SOUTHERN MICHIGAN
Hillsdale County Trial
One, Two, Three Year Averages - 1980, 1979, 1978

Zone 1

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	2 yr.	3 yr.	1980	2 yr.	3 yr.	
	Andersons SSA (2X)	20.9	--	--	111.2	--	--	3.5	--
Michigan 333-3X (3X)	21.0	22	21	107.4	116	109	5.9	7	
Gutwein 3060 (3X)	21.3	--	--	106.1	--	--	4.6	--	
Great Lakes GL-455 (2X)	21.8	--	--	140.9	--	--	2.2	--	
Garno S-94 (2X)	21.8	--	--	127.5	--	--	2.1	--	
Garno S-95Y (2X)	22.0	--	--	139.4	--	--	4.8	--	
Great Lakes GL-511 (2X)	22.0	--	--	128.8	--	--	8.2	--	
Wolverine W166 (2X)	22.1	--	--	107.8	--	--	2.0	--	
Pioneer 3901 (2X)	22.1	24	23	106.2	120	116	3.4	2	
Rupp XR1591 (2X)	22.1	--	--	124.9	--	--	0.0	--	
Jacques JX147 (2X)	22.2	--	--	114.8	--	--	2.2	--	
Farmers Exp. 227 (MSX)	22.3	--	--	115.0	--	--	2.8	--	
Payco SX637 (2X)	22.5	--	--	130.7	--	--	2.7	--	
Michigan 3102 (2X)	22.5	24	23	132.1	128	120	1.4	3	
Funk G-4256 (3X)	22.6	--	--	98.8	--	--	2.1	--	
Gries X408 (2X)	22.8	--	--	115.4	--	--	4.1	--	
Cargill 436 (3X)	22.9	--	--	135.3	--	--	2.8	--	
Andersons SSE (2X)	23.0	25	23	130.6	126	119	1.4	6	
Amcorn ZX5500 (2X)	23.0	--	--	115.4	--	--	2.7	--	
Pioneer 3780 (2X)	23.2	26	25	133.4	138	127	3.5	2	
Payco SX799 (2X)	23.3	--	--	136.9	--	--	2.9	--	
Migro HP20 (2X)	23.4	25	--	108.3	109	--	4.2	8	
Super Crost 2350 (2X)	23.4	25	24	102.7	123	120	0.7	5	
Michigan 407-2X (2X)	23.5	--	--	132.0	--	--	4.3	--	
Select 3100 (2X)	23.6	25	--	130.9	126	--	2.1	1	
Gutwein 112 (3X)	23.6	25	24	99.2	101	105	3.5	5	
*Gutwein 46B (2X)	23.7	--	--	154.4	--	--	1.4	--	
Payco SX844 (2X)	23.7	--	--	139.9	--	--	0.0	--	
*Pride 5525 (2X)	23.7	26	26	151.9	154	136	0.7	0	
Garno S90 (2X)	23.7	24	--	138.7	134	--	2.0	2	
Great Lakes GL-422 (2X)	23.7	--	--	142.7	--	--	0.7	--	
Pioneer X6459 (MSX)	23.7	--	--	140.2	--	--	0.0	--	
Gutwein 2210 (2X)	23.8	--	--	118.2	--	--	2.9	--	
*Migro M-2018 (2X)	23.9	26	25	150.2	153	137	2.8	1	
Garno S-99 (2X)	23.9	--	--	121.5	--	--	2.9	--	
*Cargill Exp. 181001 (2X)	23.9	--	--	158.2	--	--	2.8	--	
*Acco UC4660 (2X)	23.9	--	--	150.5	--	--	1.4	--	
Garno S-101 (2X)	23.9	--	--	140.9	--	--	2.8	--	
Super Crost 7902 (2X)	24.1	--	--	131.7	--	--	0.0	--	
*Great Lakes GL-552 (2X)	24.1	26	--	152.5	146	--	1.5	2	
Blaney G-4323 (MSX)	24.1	26	25	152.9	143	127	0.7	0	
Wolverine W168 (2X)	24.2	--	--	109.5	--	--	0.7	--	
Blaney B506 (2X)	24.2	25	24	124.5	124	124	2.1	1	
Payco SX888 (2X)	24.3	--	--	113.4	--	--	0.0	--	
Jacques JX177 (2X)	24.3	--	--	144.9	--	--	0.7	--	
*Garno S-100 (2X)	24.3	26	--	150.1	147	--	0.7	1	
Rupp XR1624 (2X)	24.3	--	--	118.5	--	--	2.9	--	
*Pioneer 3572 (2X)	24.4	--	--	154.1	--	--	1.0	--	
Amcorn PSX7480 (2X)	24.4	27	25	149.4	140	127	1.4	3	
Migro HP23R (2X)	24.4	26	--	130.9	134	--	3.5	2	
Great Lakes GL-477 (2X)	24.4	--	--	148.1	--	--	3.0	--	
Migro M-2022X (2X)	24.5	26	25	129.4	124	114	4.1	2	
Gold Tag 2006 (2X)	24.5	--	--	143.2	--	--	0.0	--	
*Leader SX510 (2X)	24.5	--	--	154.3	--	--	2.9	--	
*Andersons SSX (2X)	24.6	27	--	153.5	138	--	2.8	1	
Andersons SSM (2X)	24.6	27	25	142.7	148	133	8.3	8	
Asgrow RX544 (MSX)	24.7	--	--	120.6	--	--	5.5	--	
Farmers 224A (MSX)	24.7	--	--	118.3	--	--	5.6	--	
*Michigan 5922 (2X)	24.7	26	26	160.5	154	145	0.0	0	
Amcorn ZX6500 (2X)	24.8	--	--	122.6	--	--	0.7	--	
Cargill 872 (2X)	24.8	27	--	130.1	123	--	2.9	4	
Gold Tag 2060 (MSX)	24.8	26	25	130.3	135	121	1.4	1	
Rupp XR1625 (2X)	24.9	26	--	145.1	136	--	2.8	1	
Payco SX808 (2X)	24.9	--	--	122.8	--	--	0.7	--	
*Blaney B606 (2X)	25.0	27	26	150.3	150	132	4.2	2	
Golden Harvest H-2448 (2X)	25.1	27	--	135.7	140	--	1.4	1	
Amcorn SP9000 (Sp.)	25.1	--	--	123.4	--	--	0.7	--	
Warwick W1101 (2X)	25.1	26	26	128.5	135	118	6.3	4	
Select 4700 (2X)	25.2	--	--	135.0	--	--	1.4	--	
Acco UC3002 (2X)	25.2	27	--	131.3	132	--	2.0	2	
Payco SC756 (2X)	25.3	--	--	136.9	--	--	1.4	--	
Dairyland DX1008 (2X)	25.3	26	--	130.1	125	--	0.0	6	
Golden Harvest SX-582 (2X)	25.3	--	--	145.9	--	--	2.2	--	
Gutwein 2250 (2X)	25.4	27	26	126.0	126	114	0.0	1	
Gries X500 (2X)	25.4	--	--	139.0	--	--	1.5	--	

Table 2 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	2 yr.	3 yr.	1980	2 yr.	3 yr.	
	Pride 4488 (2X)	25.6	--	--	144.5	--	--	0.0	--
Super Crost 2396 (2X)	25.6	--	--	140.5	--	--	1.4	--	
Rupp XR1690 (2X)	25.6	--	--	137.5	--	--	0.0	--	
Gold Tag 2062 (3X)	25.6	--	--	118.9	--	--	2.1	--	
Select 3300 (2X)	25.8	27	--	141.1	142	--	0.7	1	
Migro HP27 (2X)	26.0	27	--	140.0	146	--	2.1	1	
*DeKalb XL55a (2X)	26.0	27	--	160.4	156	--	1.4	2	
Super Crost 3177 (2X)	26.1	--	--	129.1	--	--	1.4	--	
Asgrow RX777 (2X)	26.3	--	--	140.4	--	--	2.4	--	
*Gutwein 2610 (2X)	26.7	--	--	154.0	--	--	2.2	--	
Rupp XR1619 (2X)	26.7	--	--	114.0	--	--	2.8	--	
*Migro HP470 (2X)	26.7	--	--	162.3	--	--	1.4	--	
*Pioneer 3535 (2X)	26.8	28	27	156.5	144	133	0.0	0	
P-A-G SX397 (2X)	27.1	--	--	134.8	--	--	5.3	--	
*Dairyland DX1016 (2X)	27.1	--	--	163.7	--	--	1.3	--	
*Dairyland DX1012 (2X)	27.4	30	--	156.0	148	--	2.9	1	
Blaney B506-wx (2X)	27.4	--	--	122.6	--	--	0.7	--	
*Pioneer 3541 (2X)	27.7	29	28	150.8	136	119	2.7	2	
*Leader SX610 (2X)	27.7	--	--	162.6	--	--	2.1	--	
*Andersons SSL (2X)	27.9	30	--	156.1	151	--	1.4	2	
*Rupp XR1780 (2X)	28.0	--	--	170.2	--	--	5.5	--	
Golden Harvest H-2500 (2X)	28.2	30	--	147.9	142	--	1.5	2	
*Jacques JX179 (2X)	28.5	--	--	153.5	--	--	0.7	--	
Migro SPX49 (2X)	28.8	30	--	127.9	124	--	0.7	1	
*Trojan TXS115A (2X)	28.8	31	29	158.0	145	139	0.0	0	
*Pride 7715 (2X)	28.9	31	30	154.3	150	132	0.0	0	
*Cargill 921 (2X)	29.2	--	--	171.5	--	--	1.4	--	
*Migro M-0505 (2X)	29.6	31	30	173.8	162	148	2.8	2	
Average	24.7	27	25	135.9	137	126	2.3	2	
Range	20.9	to	to	98.8	to	to	0.0	to	
	29.6	31	30	173.8	162	148	8.3	6	
Least significant difference	1.4	0.9	0.7	14.0	8	6	--	--	

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 6	May 16	May 18
Harvested	October 28	November 5	October 24
Soil type	Sibewa-Matherton Loam	Sibewa-Matherton Loam	Sibewa-Matherton Loam
Previous crop	Corn	Corn	Corn
Population	21,400	21,000	20,600
Rows	30"	30"	30"
Fertilizer	150-80-190	158-108-108	164-70-35
Soil test: pH	6.7	6.8	6.8
P	48 (medium)	118 (very high)	32 (low)
K	252 (high)	387 (very high)	228 (high)

Farm Cooperators: Don and Ed Marshall, Litchfield

County Extension Director: James Pelham, Hillsdale

Table 3

SOUTHERN MICHIGAN
Branch County Trial
One, Two, Three Year Averages - 1980, 1979, 1978

Zone 1

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	2 yr.	3 yr.	1980	2 yr.	3 yr.	
	Andersons SSA (2X)	18.1	--	--	81.4	--	--	9.9	--
Michigan 333-3X (3X)	18.1	21	20	84.8	92	101	8.8	6	
Pioneer 3901 (2X)	18.6	21	20	82.4	96	105	4.0	4	
Great Lakes GL-511 (2X)	18.7	--	--	115.2	--	--	1.5	--	
Andersons SSE (2X)	18.9	23	22	99.6	125	130	6.7	6	
Michigan 3102 (2X)	18.9	22	21	96.1	101	120	6.2	5	
Dairyland DX1004 (2X)	19.1	--	--	127.8	--	--	4.4	--	
Garno S-90 (2X)	19.2	21	--	91.4	102	--	6.3	4	
Andersons SSX (2X)	19.3	23	--	107.4	117	--	0.7	3	
Super Crost 2350 (2X)	19.4	23	22	118.6	128	134	3.8	4	
Pioneer 3780 (2X)	19.4	23	22	118.8	126	133	2.2	3	
Blaney B401 (2X)	19.5	22	21	82.6	97	116	4.8	5	
Rupp XR1591 (2X)	19.5	--	--	108.3	--	--	4.9	--	
Farmers Exp. 227 (MSX)	19.5	--	--	86.9	--	--	2.3	--	
P-A-G SX181 (2X)	19.6	--	--	103.1	--	--	2.2	--	

(continued)

Table 3 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
	Michigan 407-2X (2X)	19.6	22	21	117.3	126	133	4.1	5
Pioneer X6459 (MSX)	19.6	--	--	117.0	--	--	6.9	--	--
Parker 50A (2X)	19.6	--	--	129.8	--	--	0.0	--	--
Garno S-99 (2X)	19.6	--	--	136.0	--	--	2.2	--	--
Bayless SX424 (2X)	19.6	23	--	134.7	148	--	3.0	2	--
Farmer 224A (MSX)	19.6	--	--	115.6	--	--	10.6	--	--
Rupp XR1624 (2X)	19.6	--	--	95.1	--	--	15.2	--	--
Leader SX500A (2X)	19.7	--	--	116.8	--	--	0.7	--	--
Garno S-95Y (2X)	19.7	--	--	137.9	--	--	4.4	--	--
Northrup King PX37 (2X)	19.7	23	22	109.6	123	136	3.8	3	2
*Blaney B606 (2X)	19.7	24	23	149.0	146	140	0.7	1	1
Amcorn ZX6500 (2X)	19.7	--	--	97.9	--	--	2.3	--	--
Dairyland DX1005 (2X)	19.7	22	--	106.1	105	--	4.8	8	--
Andersons SSM (2X)	19.8	24	23	119.3	138	132	5.1	4	4
Jacques JX147 (2X)	19.9	--	--	104.7	--	--	1.4	--	--
Migro HP20 (2X)	19.9	23	--	83.1	95	--	3.1	5	--
Dennis DS3 (2X)	20.0	--	--	112.2	--	--	2.4	--	--
ADI 323 (2X)	20.0	24	23	124.4	131	137	1.5	2	2
Solar 1101 (2X)	20.0	--	--	100.4	--	--	3.0	--	--
Custom CFS1450 (2X)	20.0	--	--	123.5	--	--	2.2	--	--
*Great Lakes GL-477 (2X)	20.2	--	--	144.6	--	--	3.7	--	--
Custom CFS4003 (2X)	20.3	--	--	112.9	--	--	6.4	--	--
Migro M-2022 (2X)	20.3	23	22	128.5	135	143	1.5	3	2
DeKalb XL32a (2X)	20.3	25	--	135.6	135	--	2.2	2	--
Leader SX510 (2X)	20.3	--	--	114.7	--	--	2.2	--	--
O's Gold SX1107 (2X)	20.3	--	--	133.1	--	--	2.1	--	--
Super Crost 79028 (2X)	20.4	--	--	111.8	--	--	4.4	--	--
Wolverine W174A (2X)	20.5	24	--	130.2	135	--	2.1	2	--
Golden Harvest H-2370 (2X)	20.5	--	--	99.3	--	--	16.9	--	--
Amcorn PSX7480 (2X)	20.6	24	23	139.4	148	149	1.4	2	1
Super Crost 2396 (2X)	20.6	--	--	129.9	--	--	3.1	--	--
Voris V2422 (2X)	20.6	24	23	111.2	124	135	3.7	3	4
*Golden Harvest H-2445 (MSX)	20.6	--	--	151.7	--	--	2.3	--	--
ADI 306 (2X)	20.6	--	--	104.0	--	--	6.9	--	--
Cargill 872 (2X)	20.6	24	--	115.3	118	--	5.7	4	--
Amcorn SP9000 (Sp.)	20.7	--	--	105.5	--	--	3.0	--	--
Garno S-94 (2X)	20.7	--	--	108.6	--	--	1.5	--	--
Renk RK66 (2X)	20.7	24	23	133.9	139	145	3.2	2	2
Garno S-101 (2X)	20.7	--	--	116.9	--	--	3.1	--	--
O's Gold SX1170 (2X)	20.7	--	--	116.8	--	--	4.9	--	--
*Jacques JX177 (2X)	20.8	--	--	142.9	--	--	2.2	--	--
Gold Tag 2006 (2X)	20.8	--	--	112.1	--	--	1.5	--	--
Solar 1701 (2X)	20.9	--	--	135.5	--	--	0.0	--	--
Rupp XR1625 (2X)	20.9	25	--	127.9	138	--	0.8	1	--
Northrup King PX39 (2X)	21.0	--	--	140.3	--	--	1.4	--	--
Great Lakes GL-552 (2X)	21.0	24	--	138.4	142	--	3.1	3	--
Voris V2472 (2X)	21.0	25	--	130.0	134	--	1.5	1	--
Funk G-4323 (MSX)	21.0	--	--	125.8	--	--	2.3	--	--
*Michigan 5922 (2X)	21.1	24	23	161.2	160	162	3.7	2	2
*Dennis DS25 (2X)	21.1	--	--	153.7	--	--	2.2	--	--
*Pride 4488 (2X)	21.1	--	--	149.2	--	--	0.8	--	--
*Funk G-4430 (2X)	21.2	25	23	149.3	152	149	3.6	3	2
DeKalb XL42a (2X)	21.3	24	--	131.9	141	--	5.8	4	--
Blaney B606E-wx (2X)	21.3	24	--	113.1	131	--	2.9	2	--
Rupp XR1690 (2X)	21.3	--	--	113.8	--	--	5.9	--	--
Pioneer 3572 (2X)	21.4	--	--	138.3	--	--	1.6	--	--
*Migro HP27 (2X)	21.4	25	--	153.4	151	--	2.8	2	--
Bayless SX434M (2X)	21.4	24	23	129.3	138	139	2.2	2	1
Migro M-2018 (2X)	21.5	25	23	119.5	131	134	4.6	3	3
Farm Bureau FB3330 (MSX)	21.5	24	--	117.0	120	--	2.2	6	--
Blaney B665-wx (3X)	21.6	--	--	119.6	--	--	3.3	--	--
Hyland HL-2784 (2X)	21.6	--	--	113.8	--	--	1.5	--	--
P-A-G SX397 (2X)	21.6	25	24	113.3	128	141	9.2	8	5
Garno S-100 (2X)	21.6	25	24	139.0	141	141	3.7	3	3
*Migro HP23R (2X)	21.7	24	--	150.0	148	--	2.1	2	--
*Gold Tag 2062 (3X)	21.8	--	--	145.1	--	--	0.7	--	--
*Migro HP470 (2X)	21.9	--	--	149.4	--	--	0.7	--	--
Dennis DS6 (2X)	22.0	25	24	132.9	122	129	2.8	1	1
DeKalb XL25a (2X)	22.0	24	--	123.1	131	--	1.8	1	--
*Voris V2491 (2X)	22.0	--	--	147.6	--	--	2.1	--	--
Voris V2411 (2X)	22.0	--	--	121.3	--	--	3.0	--	--
Research Ventures RVI 3261 (2X)	22.0	--	--	117.9	--	--	3.1	--	--
Select 3300 (2X)	22.0	25	--	130.8	146	--	2.8	2	--
Asgrow RX544 (2X)	22.1	--	--	130.0	--	--	1.4	--	--
Gold Tag 2060 (MSX)	22.1	26	24	141.6	133	141	3.0	3	2

Table 3 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
	*Northrup King PX49 (2X)	22.1	25	23	147.5	149	154	0.0	1
*Kaltenberg KX73 (2X)	22.1	--	--	146.1	--	--	3.5	--	--
*Custom CFS4000 (2X)	22.2	--	--	150.4	--	--	2.9	--	--
*DeKalb XL55a (2X)	22.2	25	--	146.5	151	--	5.8	4	--
Acco UC4201 (2X)	22.3	--	--	115.3	--	--	3.6	--	--
*Custom CFS6007 (2X)	22.3	--	--	146.0	--	--	1.5	--	--
Custom CFS1400 (2X)	22.4	--	--	117.5	--	--	0.8	--	--
Acco UC3751 (2X)	22.5	--	--	126.2	--	--	3.7	--	--
Dairyland DX1012 (2X)	22.5	--	--	138.8	--	--	3.5	--	--
*Pioneer 3535 (2X)	22.5	26	25	146.3	143	144	1.4	1	1
Rupp XR1780 (2X)	22.8	--	--	141.9	--	--	2.3	--	--
Gutwein 69B (2X)	22.9	--	--	134.3	--	--	4.3	--	--
Warwick W1101 (2X)	23.0	--	--	122.9	--	--	6.3	--	--
Dennis DS47A (2X)	23.0	--	--	134.7	--	--	7.7	--	--
*Select 4700 (2X)	23.0	--	--	148.9	--	--	1.5	--	--
*Renk RK77 (2X)	23.0	27	26	147.8	146	153	1.5	1	1
Custom CFSW220 (2X)	23.1	--	--	124.3	--	--	3.6	--	--
Funk G-4435 (MSX)	23.1	--	--	139.6	--	--	0.7	--	--
P-A-G SX277 (2X)	23.2	27	--	128.0	134	--	1.4	1	--
*Dairyland DX1016 (2X)	23.2	27	25	153.7	149	150	1.4	1	2
*Bayless SX637 (2X)	23.3	27	26	162.4	155	160	0.8	2	2
*Parker 60 (2X)	23.3	27	26	149.9	154	155	2.3	2	1
*Leader SX610 (2X)	23.4	--	--	149.0	--	--	2.2	--	--
*Migro M-0505 (2X)	23.4	--	--	146.9	--	--	3.5	--	--
Pioneer 3541 (2X)	23.5	26	24	134.2	134	147	4.9	3	2
Andersons SSL (2X)	23.5	27	--	141.1	143	--	1.5	1	--
*Trojan TXS115A (2X)	23.7	28	26	159.4	161	161	3.7	3	2
Pride 7715 (2X)	23.8	28	26	138.9	148	155	2.9	2	2
*Asgrow RK777 (2X)	23.8	--	--	165.0	--	--	0.0	--	--
*Kaltenberg KX76 (2X)	23.8	--	--	163.5	--	--	0.8	--	--
*Select 5100 (2X)	24.0	28	--	166.0	165	--	1.5	1	--
Golden Harvest H-2448 (2X)	24.0	--	--	138.8	--	--	2.2	--	--
*Dennis DS36 (2X)	24.0	--	--	149.1	--	--	0.0	--	--
*Jacques JX179 (2X)	24.1	--	--	164.1	--	--	1.4	--	--
Migro SPX49 (2X)	24.1	--	--	133.8	--	--	3.5	--	--
Blaney B805 (2X)	24.2	28	27	139.5	149	151	4.3	4	3
*Northrup King PX74 (2X)	24.9	29	27	160.9	158	157	0.8	1	1
*ADI 555 (2X)	25.0	28	26	143.3	152	157	3.0	2	1
*O's Gold SX5500A (2X)	25.1	--	--	164.0	--	--	1.4	--	--
*ADI 575 (3X)	25.6	28	26	151.3	143	149	4.3	4	2
*Northrup King PX78 (2X)	25.7	--	--	153.4	--	--	1.5	--	--
Average	21.4	25	24	128.8	135	141	3.2	3	2
Range	18.1 to 25.7	21 to 28	20 to 27	81.4 to 166.0	92 to 165	101 to 162	0.0 to 16.9	1 to 8	0 to 5
Least significant difference	1.4	1.0	0.7	14.0	9	6	--	--	--

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 9	May 22	May 4
Harvested	Oct. 30	November 2	Oct. 27
Soil type	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
Previous crop	Corn	Corn	Corn
Population	20,800	21,200	20,600
Rows	30"	30"	30"
Fertilizer	185-64-0	185-64-0	157-69-0
Soil test: pH	7.7	7.7	7.1
P	288 (very high)	309 (very high)	178 (very high)
K	327 (very high)	556 (very high)	248 (high)

Farm Cooperator: George Matthews, Union City

County Extension Director: Paul Thompson, Coldwater

(continued)

Table 4

SOUTHERN MICHIGAN
Kalamazoo County Trial
One, Two, Three Year Averages - 1980, 1979, 1978

Zone 1

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	yr.	yr.	1980	yr.	yr.	1980	yr.	yr.
Rupp XR1490 (2X)	19.4	--	--	110.8	---	---	5.1	--	--
Michigan 333-3X (3X)	19.5	22	20	107.2	99	110	3.1	2	1
Garno S-94 (2X)	20.1	--	--	123.5	---	---	5.8	--	--
Pioneer 3901 (2X)	20.2	23	22	136.7	119	125	2.1	1	1
Michigan 3102 (2X)	20.2	22	21	129.3	113	119	1.7	1	1
Rupp XR1591 (2X)	20.2	--	--	106.4	---	---	5.0	--	--
DeKalb XL14aa (2X)	20.4	--	--	125.4	---	---	2.4	--	--
Asgrow RX511 (2X)	20.4	--	--	126.8	---	---	10.4	--	--
Garno S-90 (2X)	20.4	23	--	131.0	114	---	4.3	3	--
Garno S-95Y (2X)	20.4	--	--	136.8	---	---	10.1	--	--
Jacques JX97 (2X)	20.5	--	--	131.3	---	---	1.4	--	--
Funk G-4252 (3X)	20.5	--	--	110.7	---	---	3.0	--	--
Golden Harvest H-2370 (2X)	20.5	--	--	103.1	---	---	11.4	--	--
Solar 1101 (2X)	20.5	--	--	103.1	---	---	3.1	--	--
Warwick SL501 (Sp.)	20.6	--	--	127.2	---	---	3.6	--	--
Great Lakes GL-511 (2X)	20.8	--	--	125.0	---	---	12.8	--	--
Jacques JX147 (2X)	20.8	--	--	122.4	---	---	6.1	--	--
Michigan 407-2X (2X)	20.8	24	23	139.1	123	127	3.2	3	2
Payco SX637 (2X)	20.9	23	--	132.3	114	---	8.3	6	--
Payco Exp. SX620 (2X)	21.0	--	--	119.7	---	---	5.7	--	--
P-A-G SX181 (2X)	21.2	--	--	131.1	---	---	0.0	--	--
Funk G-4224 (MSX)	21.2	--	--	125.4	---	---	5.1	--	--
Custom CFS1450 (2X)	21.3	--	--	128.2	---	---	9.6	--	--
Super Crost 2350 (2X)	21.4	25	24	131.7	117	124	3.7	2	1
Garno S-99 (2X)	21.4	--	--	125.4	---	---	3.1	--	--
Migro HP23R (2X)	21.6	25	--	133.0	110	---	4.8	2	--
Pioneer X6459 (MSX)	21.6	--	--	127.5	---	---	3.5	--	--
Golden Harvest H-2445 (MSX)	21.6	27	25	137.4	117	119	8.4	5	3
Select 3100 (2X)	21.6	25	--	130.7	119	---	4.5	2	--
Dairyland DX1007B (MSX)	21.6	--	--	149.9	---	---	6.0	--	--
Pioneer 3780 (2X)	21.6	25	23	132.0	116	120	3.6	3	2
Custom CFS4003 (2X)	21.7	--	--	132.7	---	---	9.9	--	--
O's Gold SX1170 (2X)	21.7	--	--	138.5	---	---	7.9	--	--
Rupp XR1624 (2X)	21.7	--	--	129.6	---	---	7.0	--	--
O's Gold SX1107 (2X)	21.8	--	--	144.1	---	---	2.1	--	--
Payco SX888 (2X)	21.8	--	--	119.5	---	---	7.3	--	--
Payco SX844 (2X)	21.9	24	23	146.7	128	123	1.5	1	1
Payco SX756 (2X)	21.9	--	--	125.0	---	---	11.4	--	--
Acco UC2851 (2X)	22.0	--	--	138.9	---	---	1.4	--	--
Custom CFS1400 (2X)	22.1	--	--	121.1	---	---	3.8	--	--
Garno S-101 (2X)	22.1	--	--	132.1	---	---	2.3	--	--
Funk G-4323 (MSX)	22.1	25	23	133.4	120	129	1.4	1	0
Wolverine W166 (2X)	22.1	25	24	139.3	120	128	4.4	2	1
Migro HP20 (2X)	22.2	24	--	104.4	96	---	0.7	1	--
Amcorn PSX7480 (2X)	22.3	25	23	146.0	131	130	1.5	1	1
Payco SX808 (2X)	22.3	--	--	107.7	---	---	3.1	--	--
Great Lakes GL-477 (2X)	22.3	--	--	150.0	---	---	4.1	--	--
*Super Crost 2396 (2X)	22.4	--	--	151.6	---	---	1.4	--	--
*Blaney B606 (2X)	22.4	--	--	158.0	---	---	2.8	--	--
Amcorn ZX6500 (2X)	22.4	--	--	135.0	---	---	2.9	--	--
Super Crost 79028 (2X)	22.4	--	--	117.8	---	---	3.0	--	--
Solar 1701 (2X)	22.4	--	--	131.3	---	---	1.4	--	--
Dairyland DX1007 (2X)	22.5	26	--	148.0	126	---	0.7	0	--
Select 3300 (2X)	22.5	--	--	147.7	---	---	2.1	--	--
*Great Lakes GL-552 (2X)	22.5	25	--	155.4	139	---	0.7	0	--
Cargill 872 (2X)	22.5	--	--	143.1	---	---	2.8	--	--
*Jacques JX177 (2X)	22.5	--	--	165.3	---	---	0.0	--	--
Migro HP27 (2X)	22.6	27	--	138.7	128	---	6.4	3	--
*Garno S-100 (2X)	22.6	27	--	154.6	130	---	0.7	0	--
*Golden Harvest H-2448 (2X)	22.6	25	--	159.1	136	---	0.7	0	--
*Michigan 5922 (2X)	22.6	26	--	165.0	146	---	0.7	0	--
Super Crost 3177 (2X)	22.6	--	--	130.0	---	---	6.8	--	--
Migro M-2018 (2X)	22.6	25	24	147.1	136	135	2.2	1	1
Pioneer 3572 (2X)	22.6	--	--	131.3	---	---	0.7	--	--
Pride 4488 (2X)	22.8	24	23	145.1	130	130	2.1	1	1
Amcorn SP9000 (2X)	23.0	--	--	144.9	---	---	2.1	--	--
Blaney B606-wx (2X)	23.0	--	--	147.8	---	---	5.1	--	--
Migro M-2022X (2X)	23.0	26	24	132.5	123	130	4.6	2	2
Research Ventures RVI 3261 (2X)	23.1	--	--	149.8	---	---	2.8	--	--
*DeKalb XL55a (2X)	23.3	26	--	162.1	142	---	1.4	2	--
*Select 4700 (2X)	23.7	--	--	153.9	---	---	2.9	--	--
Custom CFS-W220 (2X)	23.8	--	--	138.6	---	---	2.8	--	--
Custom CFS4000 (2X)	24.0	--	--	149.7	---	---	2.3	--	--
*Custom CFS6007 (2X)	24.0	--	--	155.6	---	---	0.7	--	--
*Pioneer 3541 (2X)	24.2	27	25	167.5	142	139	3.6	2	1

(continued)

Table 4 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	yr.	yr.	1980	yr.	yr.	1980	yr.	yr.
*Pioneer 3535 (2X)	24.3	27	25	151.6	126	128	1.4	1	0
*P-A-G SX397 (2X)	24.5	--	--	166.6	---	---	0.0	--	--
*Jacques JX179 (2X)	24.7	--	--	162.7	---	---	0.7	--	--
Migro HP470 (2X)	25.1	--	--	146.3	---	---	1.4	--	--
Migro SPX49 (2X)	25.3	--	--	142.2	---	---	1.4	--	--
Blaney B805 (2X)	25.4	--	--	147.7	---	---	1.4	--	--
*Migro M-0505 (2X)	25.4	--	--	157.8	---	---	1.4	--	--
Average	22.1	25	23	137.0	123	126	3.7	2	1
Range	19.4	22	20	103.1	96	110	0.0	0	0
	to	to	to	to	to	to	to	to	to
	25.4	27	25	167.5	146	139	12.8	6	3
Least significant difference	1.4	1.0	0.7	14.2	7	5	--	--	--

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 8	May 11	May 4
Harvested	October 31	November 7	October 30
Soil type	Kalamazoo loam	Kalamazoo loam	Kalamazoo loam
Previous crop	Wheat and red clover	Corn	Corn
Population	21,100	20,200	19,300
Rows	30"	30"	30"
Fertilizer	108-32-16 + Zn	112-48-106	126-64-122
Soil test: pH	6.8	5.8	6.1
P	140 (very high)	92 (high)	95 (high)
K	275 (high)	328 (very high)	264 (high)

Farm Cooperator: Richard VanVrancken, Climax

County Extension Agent: Richard Bailey, Kalamazoo

Table 5

SOUTHERN MICHIGAN
Cass County Trial - Irrigated Upland Soil
One, Two, Three Year Averages - 1980, 1979, 1978

Zone 1

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	yr.	yr.	1980	yr.	yr.	1980	yr.	yr.
Rupp XR1490 (2X)	19.4	--	--	121.6	---	---	2.8	--	--
Michigan 333-3X (3X)	20.1	20	19	134.2	124	123	5.6	6	5
Warwick W966 (Sp.)	20.4	--	--	135.6	---	---	6.9	--	--
Blaney B507 (2X)	20.6	--	--	123.8	---	---	6.2	--	--
Asgrow RX511 (2X)	20.6	--	--	135.8	---	---	13.1	--	--
Michigan 3102 (2X)	20.8	21	20	134.2	137	138	2.1	5	4
Rupp XR1591 (2X)	21.0	--	--	126.0	---	---	4.6	--	--
Dairyland DX1004 (2X)	21.1	--	--	127.4	---	---	8.3	--	--
Garno S-95Y (2X)	21.2	--	--	131.6	---	---	7.1	--	--
Bayless SX424 (2X)	21.2	21	--	136.7	146	---	3.8	5	--
Cargill 838 (2X)	21.3	21	21	138.7	122	128	7.2	10	7
O's Gold SX1170 (2X)	21.3	--	--	136.3	---	---	3.6	--	--
Parker 29 (2X)	21.4	--	--	122.7	---	---	7.2	--	--
Michigan 407-2X (2X)	21.5	22	20	149.9	146	147	4.2	7	6
Hyland HL-2458 (2X)	21.5	22	--	127.2	139	---	2.2	4	--
Garno S-99 (2X)	21.6	--	--	127.7	---	---	8.6	--	--
Amcorn ZX5500 (2X)	21.6	--	--	147.6	---	---	3.7	--	--
Garno S-90 (2X)	21.8	21	--	123.2	120	---	5.4	7	--
Jacques JX147 (2X)	21.9	--	--	123.7	---	---	5.7	--	--
*Garno S-94 (2X)	22.0	--	--	166.2	---	---	7.8	--	--
P-A-G SX181 (2X)	22.1	--	--	143.9	---	---	3.6	--	--
Great Lakes GL-511 (2X)	22.1	--	--	136.6	---	---	7.0	--	--
Low LSX100 (2X)	22.1	23	--	161.5	152	---	5.0	13	--
Gutwein 2180 (2X)	22.1	--	--	133.6	---	---	4.3	--	--
DeKalb XL25A (2X)	22.2	22	--	137.4	134	---	1.4	3	--
Cargill 436 (3X)	22.3	--	--	137.5	---	---	3.9	--	--
Trojan T1058 (2X)	22.4	23	--	124.3	127	---	2.3	8	--
Funk G-4323 (MSX)	22.4	24	23	150.5	152	158	3.4	3	2
Acco UC4660 (2X)	22.4	--	--	130.4	---	---	1.5	--	--
*Great Lakes GL-477 (2X)	22.4	--	--	173.8	---	---	2.0	--	--

(continued)

Table 5 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2	3	1980	2	3	1980	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Super Crost 1700 MSX	22.4	--	--	132.6	---	---	1.4	--	--
Super Crost 2350 (2X)	22.5	23	21	136.9	148	157	2.9	6	5
Gold Tag 1090 (MSX)	22.5	--	--	136.7	---	---	3.7	--	--
DeKalb XL32a (2X)	22.6	--	--	146.6	---	---	3.0	--	--
Migro HP20 (2X)	22.6	24	--	128.3	127	---	1.5	3	--
Golden Harvest H-2373 (2X)	22.7	--	--	131.0	---	---	2.9	--	--
Migro HP27 (2X)	22.7	23	--	153.4	157	---	3.4	5	--
Gutwein 46B (2X)	22.8	--	--	134.7	---	---	2.2	--	--
Select 3100 (2X)	22.8	23	--	153.6	146	---	0.7	5	--
Funk G-4321A (2X)	22.8	--	--	149.8	---	---	7.9	--	--
Funk G-4315 MSX	22.8	22	--	134.5	141	--	5.7	12	--
*Pioneer 3780 (2X)	22.8	23	21	166.4	159	167	4.0	8	8
Asgrow RX61A (2X)	22.8	--	--	133.4	---	---	1.6	--	--
Rupp XR1624 (2X)	22.8	--	--	131.5	---	---	1.5	--	--
Warwick W1010 (2X)	22.9	--	--	158.3	---	---	3.4	--	--
Cargill Exp. 181001 (2X)	22.9	--	--	149.7	---	---	3.6	--	--
McCurdy 4855 (2X)	22.9	--	--	163.9	---	---	5.8	--	--
Hyland HL-2784 (2X)	23.0	23	--	136.8	143	---	4.3	5	--
Super Crost 3177 (2X)	23.0	--	--	155.4	---	---	4.5	--	--
Migro HP23R (2X)	23.0	23	--	134.3	127	---	2.2	2	--
Blaney B606 (2X)	23.1	23	21	161.4	158	158	1.6	2	6
Renk RK66 (2X)	23.1	23	22	144.6	156	153	3.4	5	6
Voris V2411 (2X)	23.3	--	--	139.1	---	---	1.4	--	--
Northrup King PX37 (2X)	23.3	23	22	141.1	144	154	2.1	5	4
Farm Bureau FB3440 (2X)	23.3	24	--	143.1	144	---	4.0	4	--
Custom CFS 1450 (2X)	23.3	--	--	163.3	---	---	0.7	--	--
Great Lakes GL-552 (2X)	23.3	23	--	161.7	164	---	0.7	3	--
Pride 5525 (2X)	23.3	24	22	151.3	148	151	1.5	3	2
Garno S-100 (2X)	23.3	23	22	162.7	161	163	1.4	4	3
Pioneer X6459 (MSX)	23.4	--	--	143.1	---	---	0.7	--	--
Rupp XR1625 (2X)	23.4	23	--	155.4	159	---	2.1	4	--
*Gold Tag 2060 (MSX)	23.4	--	--	166.4	---	---	2.1	--	--
Migro M-2018 (2X)	23.5	23	22	146.0	133	144	0.7	5	4
*Prairie Stream SX33 (2X)	23.6	23	22	168.1	162	160	3.0	4	3
Dennis DS3 (2X)	23.6	--	--	147.5	---	---	3.0	--	--
Gold Tag 2006 (2X)	23.6	--	--	159.0	---	---	2.8	--	--
Amcorn ZX6500 (2X)	23.6	--	--	159.9	---	---	4.3	--	--
*Voris V2441 (2X)	23.6	23	--	168.8	164	---	2.1	4	--
Pride R549 (2X)	23.6	23	--	132.3	146	---	3.6	6	--
Northrup King PX39 (2X)	23.6	--	--	163.9	---	---	3.7	--	--
Lowe LSX222 (2X)	23.6	25	--	157.2	155	---	2.2	4	--
Super Crost 79028 (2X)	23.6	--	--	160.2	---	---	5.7	--	--
Lowe LSX217 (2X)	23.6	24	--	156.7	161	--	3.0	3	--
Golden Harvest H-2448 (2X)	23.7	24	22	153.2	152	164	2.9	3	2
Northrup King PX49 (2X)	23.7	24	22	165.8	162	170	1.4	4	3
Trojan T1069 (2X)	23.8	--	--	138.4	---	---	1.8	--	--
Select 3300 (2X)	23.9	--	--	164.4	---	---	2.9	--	--
Prairie Stream SX44 (2X)	24.0	24	22	139.6	140	155	0.7	5	4
Custom CFS4003 (2X)	24.0	--	--	141.8	---	---	2.4	--	--
Pride 4488 (2X)	24.0	23	22	148.4	151	163	0.7	1	1
Voris V2422 (2X)	24.0	24	22	151.0	149	159	3.7	4	4
*DeKalb XL55a (2X)	24.0	25	--	192.7	172	---	3.6	6	--
Migro M-2022X (2X)	24.1	25	23	163.0	153	163	2.0	5	4
*Cargill 872 (2X)	24.2	24	--	192.4	170	---	8.4	6	--
Dairyland DX1008 (2X)	24.2	23	--	134.7	132	---	5.8	7	--
*Michigan 5922 (2X)	24.2	24	22	185.0	176	180	0.8	3	2
Funk G-4430 (2X)	24.3	--	--	135.6	---	---	7.5	--	--
Custom CFS1400 (2X)	24.3	--	--	154.0	---	---	0.8	--	--
Parker 36A (2X)	24.3	24	22	149.2	147	151	0.8	4	4
*Pioneer 3572 (2X)	24.4	--	--	193.2	---	---	1.5	--	--
Custom CFS6007 (2X)	24.4	--	--	155.4	---	---	0.7	--	--
Acco UC3002 (2X)	24.5	24	22	142.4	144	151	2.9	8	5
*P-A-G SX397 (2X)	24.5	25	23	182.8	171	168	2.1	4	3
Leader SX510 (2X)	24.6	--	--	141.6	---	---	0.0	--	--
Super Crost 2396 (2X)	24.7	--	--	149.5	---	---	0.7	--	--
*Dennis DS6 (2X)	24.7	--	--	178.6	---	---	2.2	--	--
Custom CFS-W220 (2X)	24.7	--	--	144.4	---	---	1.6	--	--
McCurdy 5596 (2X)	24.8	24	--	150.4	163	---	3.6	4	--
Garno S-101 (2X)	25.0	--	--	146.3	---	---	2.2	--	--
Gold Tag 2062 (3X)	25.0	--	--	147.6	---	---	3.7	--	--
Jacques JX177 (2X)	25.1	--	--	150.4	---	---	0.8	--	--
Voris V2481 (2X)	25.1	--	--	135.2	---	---	2.3	--	--
Prairie Stream SX50A (2X)	25.4	--	--	161.0	---	---	2.2	--	--
*Select 4700 (2X)	25.4	25	--	166.1	152	---	3.6	5	--
DeKalb XL54 (2X)	25.4	25	23	155.8	157	155	2.2	4	5

Table 5 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2	3	1980	2	3	1980	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
*P-A-G SX277 (2X)	25.6	25	--	178.3	174	---	3.0	4	--
Rupp XR1690 (2X)	25.7	--	--	141.4	---	---	2.9	--	--
Dennis DS25 (2X)	25.8	--	--	156.6	---	---	1.6	--	--
*Lowe LSX317 (2X)	25.9	--	--	176.9	---	---	0.0	--	--
Bayless SX434M (2X)	26.0	24	22	146.6	149	152	5.1	6	6
Dennis DS36 (2X)	26.0	--	--	150.2	---	---	2.1	--	--
*Bayless SX637 (2X)	26.1	26	--	181.3	171	---	2.8	5	--
Custom CFS 4000 (2X)	26.2	--	--	163.0	---	---	1.7	--	--
Funk G-4435 (MSX)	26.2	--	--	151.1	---	---	3.8	--	--
Dennis DS47A (2X)	26.3	--	--	137.4	---	---	4.0	--	--
Jacques JX179 (2X)	26.3	--	--	159.8	---	---	0.8	--	--
*Pioneer 3535 (2X)	26.5	26	24	191.3	176	175	0.7	1	0
*Funk G-4507 (2X)	26.6	26	24	168.8	155	164	2.8	2	2
Pioneer 3541 (2X)	26.7	25	23	158.4	159	169	1.4	5	4
*Prairie Stream SX50 (2X)	26.7	--	--	176.7	---	---	2.1	--	--
*Golden Harvest XS-582 (2X)	26.8	--	--	176.5	---	---	3.3	--	--
Golden Harvest H-2500 (2X)	26.8	26	25	163.8	165	173	0.0	0	0
Northrup King PX74 (2X)	26.8	27	25	165.2	156	168	0.0	2	2
O's Gold SC5500A (2X)	26.8	26	24	155.0	159	169	2.1	4	2
Migro M-0505 (2X)	26.8	--	--	155.1	---	---	0.8	--	--
Kaltenberg KX76 (2X)	26.9	--	--	161.4	---	---	0.0	--	--
Rupp XR1780 (2X)	27.0	--	--	159.7	---	---	1.8	--	--
Cargill 921 (2X)	27.1	--	--	158.7	---	---	1.6	--	--
Migro HP470 (2X)	27.2	--	--	163.3	---	---	2.9	--	--
*Trojan TXS115A (2X)	27.2	26	25	176.3	170	177	2.8	3	2
Kaltenberg KX73 (2X)	27.2	--	--	157.5	---	---	1.7	--	--
Gutwein 2610 (2X)	27.3	--	--	159.7	---	---	2.1	--	--
Blaney 805 (2X)	27.6	26	25	159.6	157	164	3.6	5	3
*Asgrow RX777 (2X)	27.6	--	--	169.1	---	---	0.8	--	--
Renk RK77 (2X)	27.7	26	--	164.4	157	---	0.0	2	--
*Select 5100 (2X)	27.7	--	--	179.6	---	---	0.7	--	--
*McCurdy 6555 (2X)	27.8	--	--	167.1	---	---	0.7	--	--
*Voris V2491 (2X)	28.0	--	--	183.9	---	---	3.4	--	--
Northrup King PX78 (2X)	28.7	--	--	148.8	---	---	3.7	--	--
Migro SPX49 (2X)	28.9	--	--	140.8	---	---	0.8	--	--
Average	24.0	24	22	151.4	151	158	3.0	5	4
Range	19.4	20	19	121.6	120	123	0.0	0	0
	28.9	27	25	193.2	176	180	13.1	13	8
Least significant difference	1.3	0.7	0.7	14.6	7	5	--	--	--

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 5	May 18	May 3
Harvested	October 3	November 8	November 1
Soil type	Oshemo sandy loam	Oshemo sandy loam	Oshemo sandy loam
Previous crop	Corn	Corn	Corn
Population	23,500	23,100	23,300
Rows	28"	28"	28"
Fertilizer	273-76-102	277-84-108	292-84-108, manure
Irrigation	6 inches	7 inches	10 inches
Soil test: pH	6.7	6.2	6.8
P	260 (very high)	243 (very high)	179 (very high)
K	411 (very high)	411 (very high)	480 (very high)

Farm Cooperator: Dave Cripe, Cassopolis

County Extension Agent: G. Warren Hothem, Cassopolis

(continued)

Table 6

SOUTHERN MICHIGAN
Cass County Trial - Muck Soil
Zone 1
One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk per acre		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Blaney B100E (2X)	17.9	--	--	64.6	---	---	17.6	--	--
Rupp XR1490 (2X)	18.9	--	--	86.3	---	---	14.6	--	--
Renk RK18 (2X)	18.9	--	--	106.7	---	---	10.9	--	--
Michigan 333-3X (3X)	18.9	21	20	98.5	89	92	15.9	11	10
Funk G-4143 (MSX)	19.2	--	--	84.0	---	---	9.6	--	--
Golden Harvest H-2239 (MSX)	19.3	--	--	75.7	---	---	17.8	--	--
Cargill Exp. 263047 (2X)	19.5	--	--	83.1	---	---	27.9	--	--
Golden Harvest H-2340 (2X)	19.9	22	21	73.8	74	88	12.3	8	7
Asgrow RX511 (2X)	20.1	--	--	94.0	---	---	29.5	--	--
Jacques JX97 (2X)	20.3	--	--	107.7	---	---	8.4	--	--
Amcorn ZX5500 (2X)	20.4	--	--	109.0	---	---	14.4	--	--
Pioneer 3901 (2X)	20.4	22	22	100.2	94	99	8.4	7	4
Funk G-4256 (3X)	20.5	--	--	88.9	---	---	12.5	--	--
Rupp XR1591 (2X)	20.5	--	--	90.8	---	---	7.4	--	--
Voris V401 (2X)	20.5	--	--	89.1	---	---	29.8	--	--
Michigan 3102 (2X)	20.6	22	21	101.6	90	107	15.8	11	7
Blaney 7905 (2X)	20.8	--	--	72.0	---	---	27.3	--	--
Funk G-4141A (MSX)	21.1	22	--	98.9	84	---	11.8	11	--
Cargill Exp. 181001 (2X)	21.2	--	--	112.5	---	---	15.3	--	--
*O's Gold SX1170 (2X)	21.2	--	--	115.5	---	---	10.7	--	--
Migro HP23R (2X)	21.3	22	--	102.4	94	---	7.5	4	--
Michigan 407-2X (2X)	21.4	23	22	104.5	97	108	18.2	13	9
Voris X391 (2X)	21.5	--	--	88.1	---	---	16.7	--	--
Blaney 8003 (2X)	21.5	--	--	108.8	---	---	16.5	--	--
*Payco SX844 (2X)	21.6	22	23	116.0	102	111	12.1	10	7
Cargill 436 (3X)	21.7	--	--	103.8	---	---	10.6	--	--
Funk G-4224 (MSX)	21.7	23	23	89.2	83	96	10.9	9	6
Great Lakes GL-511 (2X)	21.7	--	--	90.1	---	---	27.9	--	--
*Funk G-4323 (MSX)	21.7	23	23	118.6	106	111	13.1	8	6
P-A-G SX181 (2X)	21.7	--	--	95.0	---	---	12.5	--	--
P-A-G SX189 (2X)	21.7	23	23	78.9	75	84	26.3	17	13
Pioneer 3780 (2X)	21.7	23	23	104.9	106	115	15.0	12	8
Pioneer X6459 (2X)	21.8	--	--	106.0	---	---	6.2	--	--
Super Crost 2350 (2X)	21.8	23	23	97.7	96	115	20.7	13	9
Migro M-2018X (2X)	21.8	23	23	98.4	92	98	15.6	9	7
DeKalb XL14aa (2X)	21.8	--	--	93.2	---	---	15.2	--	--
Funk G-4272 (3X)	21.9	23	22	80.8	78	98	26.8	16	11
*Funk G-4408 (2X)	22.0	23	23	121.1	115	122	17.5	12	8
*Great Lakes GL-477 (2X)	22.0	--	--	136.7	---	---	11.1	--	--
Amcorn ZX6500 (2X)	22.0	--	--	106.8	---	---	14.3	--	--
*Migro M-2022X (2X)	22.1	23	23	118.6	98	109	9.2	5	4
Cargill 838 (2X)	22.1	23	22	87.7	85	89	7.0	11	9
McCurdy 4664 (2X)	22.1	--	--	101.0	---	---	29.8	--	--
O's Gold Exp. 6880 (2X)	22.2	--	--	92.1	---	---	23.9	--	--
Kaltenberg KX61 (2X)	22.2	--	--	102.9	---	---	11.9	--	--
Cargill 872 (2X)	22.3	24	--	110.5	93	---	7.9	4	--
Blaney B606 (2X)	22.3	24	23	110.9	96	101	13.1	11	7
Voris V2411 (2X)	22.3	--	--	98.5	---	---	11.0	--	--
Bayless SX386 (2X)	22.3	--	--	103.6	---	---	8.0	--	--
Kaltenberg KX58 (2X)	22.4	--	--	108.1	---	---	16.3	--	--
Rupp XR1624 (2X)	22.6	--	--	101.2	---	---	11.5	--	--
Voris V2441 (2X)	22.6	23	--	98.9	91	---	9.3	5	--
*Super Crost 2396 (2X)	22.7	--	--	116.6	---	---	19.1	--	--
Super Crost 79028 (2X)	22.7	--	--	111.7	---	---	16.9	--	--
Golden Harvest H-2370 (2X)	22.7	--	--	82.6	---	---	16.9	--	--
*Great Lakes GL-552 (2X)	22.8	24	--	116.4	106	---	8.0	4	--
P-A-G SX249 (2X)	22.8	24	24	112.2	100	103	7.0	6	5
Migro HP20 (2X)	23.2	23	--	85.5	77	---	7.0	5	--
*Migro HP27 (2X)	23.3	25	--	118.3	100	---	12.9	6	--
*Michigan 5922 (2X)	23.3	24	--	120.9	110	---	12.6	7	--
Payco SX888 (2X)	23.3	--	--	81.9	---	---	11.7	--	--
*P-A-G SX397 (2X)	23.4	25	25	114.4	109	117	12.7	9	6
*Pride 4488 (2X)	23.4	24	23	133.1	111	108	7.0	5	4
*Pioneer 3535 (2X)	23.4	24	25	125.2	113	124	8.3	7	5
DeKalb XL55a (2X)	23.7	--	--	112.0	---	---	14.2	--	--
*Funk G-4435 (MSX)	23.8	--	--	124.5	---	---	10.6	--	--
*Pioneer 3541 (2X)	23.9	25	25	119.0	109	123	5.6	3	2
*Migro HP470 (2X)	25.2	--	--	121.1	---	---	10.4	--	--
*Migro SPX49 (2X)	25.9	--	--	96.1	---	---	8.0	--	--
*Migro M-0505 (2X)	26.4	--	--	117.4	---	---	2.3	--	--
Average	21.9	23	23	102.1	96	105	13.4	9	7
Range	17.9	21	20	64.6	74	84	2.3	3	2
	to	to	to	to	to	to	to	to	to
	26.4	25	25	136.7	115	124	29.8	17	13

(continued)

Table 6 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk per acre		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Least significant difference	1.3	0.7	0.7	11.4	7	5	-	-	-

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 24	May 25	May 20
Harvested	November 3	November 8	November 1
Soil type	Houghton muck	Houghton muck	Houghton muck
Previous crop	Corn	Corn	Corn
Population	21,500	21,000	21,400
Rows	30"	30"	30"
Fertilizer	118-26-60	83-32-76	82-48-74
Soil test: pH	5.4	5.5	5.6
p	134 (very high)	172 (very high)	97 (high)
K	465 (very high)	434 (very high)	688 (very high)

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

County Extension Agent: G. Wayne Hothem, Cassopolis

Table 7

SOUTH CENTRAL MICHIGAN
Kent County Trial
Zone 2
One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Michigan 333-3X (3X)	20.1	21	20	109.5	102	107	7.4	4	3
Rupp XR1490 (2X)	20.1	--	--	111.8	---	---	6.9	--	--
Seneca S134 (2X)	20.2	23	--	105.8	95	---	6.3	4	--
Andersons SSA (2X)	20.2	--	--	121.9	---	---	2.8	--	--
Pioneer 3901 (2X)	20.3	23	22	142.4	124	128	2.0	1	1
Michigan 3102 (2X)	20.6	22	22	134.8	111	123	6.4	4	2
Dairyland DX1096 (2X)	20.7	--	--	143.5	---	---	2.1	--	--
Hyland HL-2428 (2X)	20.8	--	--	139.5	---	---	4.7	--	--
Hyland HL-2442 (2X)	21.2	23	--	119.1	119	---	2.7	2	--
Hyland HL-2458 (2X)	21.2	--	--	146.4	---	---	0.0	--	--
Dairyland DX1095 (2X)	21.2	22	--	131.0	118	---	9.4	7	--
Amcorn ZX5500 (2X)	21.4	--	--	136.9	---	---	8.7	--	--
Migro M-0101 (2X)	21.5	--	--	128.5	---	---	4.7	--	--
Payco Exp. SX620 (2X)	21.5	--	--	149.8	---	---	1.4	--	--
Garno S-90 (2X)	21.5	23	--	131.8	118	---	3.4	3	--
*Garno S-95Y (2X)	21.5	--	--	158.0	---	---	5.4	--	--
*Great Lakes Exp. 80111 (2X)	21.6	--	--	158.3	---	---	3.4	--	--
Great Lakes GL-422 (2X)	21.7	--	--	139.0	---	---	1.4	--	--
Payco SX888 (2X)	21.9	--	--	124.4	---	---	4.9	--	--
*Dairyland DX1003 (2X)	22.0	--	--	157.7	---	---	3.4	--	--
Dairyland DX1002 (2X)	22.1	23	23	117.0	111	126	10.2	6	4
Trojan T1008 (2X)	22.1	--	--	140.1	---	---	4.8	--	--
Amcorn Exp. 4 (2X)	22.1	--	--	142.5	---	---	1.4	--	--
Michigan 407-2X (2X)	22.2	24	23	136.6	122	132	7.6	6	4
Custom CFS1000 (2X)	22.2	--	--	105.9	---	---	3.7	--	--
Super Crost 2350 (2X)	22.2	24	24	151.9	123	140	1.4	2	1
Voris V2372 (2X)	22.3	24	23	131.4	125	137	7.2	6	4
Great Lakes GL-511 (2X)	22.4	--	--	137.8	---	---	3.4	--	--
Funk G-4256 (3X)	22.6	--	--	118.9	---	---	3.4	--	--
Warwick W966 (Sp.)	22.6	--	--	123.7	---	---	2.8	--	--
Pioneer 3780 (2X)	22.6	24	23	145.5	133	147	4.1	3	2
DeKalb XL31 (2X)	22.6	--	--	142.0	---	---	8.0	--	--
Great Lakes GL-455 (2X)	22.6	--	--	150.6	---	---	5.4	--	--
Acco UC1905 (2X)	22.7	23	--	127.7	118	---	7.1	4	--
Dairyland DX1004 (2X)	22.8	--	--	154.1	---	---	4.7	--	--
Renk R146 (3X)	22.9	24	--	153.3	129	---	2.0	2	--
Rupp XR1591 (2X)	23.0	--	--	138.4	---	---	0.0	--	--
Wolverine W166 (2X)	23.0	24	23	151.4	126	136	3.5	3	2
Wolverine W132 (2X)	23.0	--	--	122.0	---	---	10.5	--	--
*DeKalb XL25a (2X)	23.0	--	--	166.3	---	---	0.7	--	--
Dairyland DX1099 (2X)	23.0	23	23	120.4	107	119	2.0	1	1
*Blaney B606E-wx (2X)	23.3	--	--	165.1	---	---	9.1	--	--
*Payco SX637 (2X)	23.4	--	--	155.6	---	---	0.0	--	--
Hyland HL-2448 (2X)	23.4	--	--	118.6	---	---	9.7	--	--
Gurwein 2180 (2X)	23.4	--	--	133.9	---	---	4.2	--	--

(continued)

Table 7 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
	Jacques JX97 (2X)	23.5	--	--	140.8	---	---	2.7	-
Super Crost 79028 (2X)	23.5	--	--	154.1	---	---	2.1	-	-
*Blaney B506-wx (2X)	23.5	---	---	157.9	---	---	2.1	-	-
Trojan TXS94 (2X)	23.6	--	--	115.1	---	---	6.2	-	-
*Migro HP27 (2X)	23.7	25	--	158.6	134	---	2.8	2	-
Custom CFS-W102 (2X)	23.8	--	--	122.2	---	---	2.1	-	-
Andersons SSE (2X)	23.8	24	24	120.8	106	118	5.9	4	2
Pioneer X6459 (MSX)	23.9	--	--	135.2	---	---	1.4	-	-
Funk G-4272 (3X)	23.9	25	24	124.2	113	127	3.5	3	2
Golden Harvest XS700 (2X)	23.9	--	--	153.6	---	---	12.3	-	-
*Renk RK66 (2X)	24.0	26	--	155.9	128	---	3.7	2	-
*Northrup King PX49 (2X)	24.1	25	24	161.4	136	150	9.1	5	3
*Golden Harvest H-2448 (2X)	24.2	25	--	171.4	140	---	2.1	2	-
Amcorn ZX6500 (2X)	24.3	--	--	140.4	---	---	1.5	-	-
*Great Lakes GL-552 (2X)	24.3	25	--	159.2	135	---	1.5	1	-
P-A-G SX181 (2X)	24.4	--	--	145.5	---	---	4.1	-	-
*DeKalb XL32a (2X)	24.4	--	--	160.7	---	---	0.7	-	-
*Great Lakes GL-477 (2X)	24.4	--	--	170.5	---	---	3.7	-	-
*Amcorn PSX7480 (2X)	24.4	26	25	157.8	126	128	4.7	2	2
*Select 3300 (2X)	24.5	--	--	168.0	---	---	3.5	-	-
Pride 4488 (2X)	24.5	25	--	145.0	123	---	0.7	1	-
Trojan T1058 (2X)	24.5	--	--	136.4	---	---	0.7	-	-
*Northrup King PX39 (2X)	24.6	--	--	161.6	---	---	4.4	-	-
*Michigan 5922 (2X)	24.6	26	--	161.7	129	---	2.6	1	-
Hyland HL-2440 (2X)	24.6	25	--	120.5	99	---	6.7	7	-
*Payco SX844 (2X)	24.6	--	--	155.9	---	---	1.4	-	-
Seneca S3195 (2X)	24.7	--	--	133.3	---	---	4.0	-	-
Select 3100 (2X)	24.7	25	--	150.7	134	---	1.5	1	-
Seneca 321 (3X)	24.8	25	24	116.4	98	108	9.9	7	5
Custom CFS4003 (2X)	24.8	--	--	130.0	---	---	2.1	-	-
Seneca T1850 (3X)	24.9	--	--	114.7	---	---	4.2	-	-
Pride R319 (3X)	25.0	--	--	134.1	---	---	0.7	-	-
Blaney 7305 (2X)	25.0	25	24	145.0	122	132	6.3	7	5
Migro HP20 (2X)	25.0	25	--	116.4	107	---	3.6	4	-
Leader SX500A (2X)	25.1	--	--	142.1	---	---	5.4	-	-
Funk G-4444 (2X)	25.1	26	25	137.1	120	135	9.1	5	3
Migro M-2022X (2X)	25.1	26	25	126.4	119	137	2.1	2	1
Migro HP16 (2X)	25.3	25	--	114.0	96	---	4.3	3	-
Custom CFS1400 (2X)	25.3	--	--	132.5	---	---	4.9	-	-
Migro HP23R (2X)	25.5	26	--	131.2	116	---	1.4	1	-
*Funk G-4323 (MSX)	25.5	26	--	157.1	122	---	1.4	1	-
Gutwein 2250 (2X)	25.6	26	25	127.7	114	133	2.9	3	2
*Leader SX510 (2X)	25.6	--	--	167.6	---	---	2.1	-	-
*Payco SX756 (2X)	25.6	--	--	169.7	---	---	2.2	-	-
Voris V2441 (2X)	25.7	--	--	139.7	---	---	4.8	-	-
Super Crost 2396 (2X)	25.8	--	--	135.0	---	---	9.1	-	-
*Trojan T1069 (2X)	25.9	--	--	157.9	---	---	1.4	-	-
*Pioneer 3541 (2X)	25.9	27	27	158.8	134	149	3.6	2	1
Payco SX808 (2X)	25.9	--	--	119.7	---	---	3.6	-	-
Seneca S2361 (2X)	25.9	26	--	149.6	130	---	3.4	3	-
*Northrup King PX37 (2X)	26.0	27	25	165.6	127	135	0.0	0	0
*Gutwein 2210 (2X)	26.1	--	--	160.8	---	---	1.4	-	-
*Funk G-4408 (2X)	26.1	26	25	156.6	138	149	5.6	4	3
Jacques JX147 (2X)	26.2	--	--	130.5	---	---	6.1	-	-
*Pioneer 3535 (2X)	26.2	27	26	166.9	130	141	2.3	2	1
O's Gold SX1170 (2X)	26.2	--	--	137.9	---	---	0.8	-	-
Dairyland DX1008 (2X)	26.2	--	--	151.5	---	---	6.2	-	-
*Northrup King PX59 (2X)	26.3	27	--	165.6	137	---	1.4	1	-
Voris V2472 (2X)	26.4	--	--	146.8	---	---	2.1	-	-
Migro M-2018X (2X)	26.5	27	25	151.2	116	127	0.7	1	0
DeKalb XL55a (2X)	26.6	--	--	149.7	---	---	4.3	-	-
*Jacques JX177 (2X)	26.6	--	--	156.6	---	---	1.4	-	-
*Acco UC2981 (2X)	27.0	--	--	159.8	---	---	4.1	-	-
*Andersons SSM (2X)	27.1	--	--	160.4	---	---	5.6	-	-
Gutwein 2340 (2X)	28.3	28	27	120.5	115	126	0.7	1	1
Average	23.8	25	24	141.5	121	131	3.9	3	2
Range	20.1	21	20	105.9	95	107	0.0	0	0
	to	to	to	to	to	to	to	to	to
	28.3	28	27	171.4	140	150	12.3	7	5
Least significant difference	1.3	0.8	0.6	14.0	8	5	-	-	-

(continued)

Table 7 (continued)

*Significantly better than average yield in 1980.

	1980		1979		1978	
	May 12	November 4	May 19	November 9	May 8	November 2
Planted						
Harvested						
Soil type	Berville loam	Berville loam	Berville loam	Berville loam	Colwood loam	Colwood loam
Previous crop	Corn	Corn	Corn	Corn	Corn	Corn
Population	21,700	21,700	21,500	21,500	21,700	21,700
Rows	30"	30"	30"	30"	30"	30"
Fertilizer	136-69-99	62-62-92	62-62-92	124-52-60	124-52-60	124-52-60
Soil test: pH	7.5	5.9	5.9	6.1	6.1	6.1
P	80 (high)	148 (very high)	148 (very high)	100 (high)	100 (high)	100 (high)
K	335 (very high)	396 (very high)	396 (very high)	356 (very high)	356 (very high)	356 (very high)

Farm Cooperator: Gerald Kayser, Caledonia

County Extension Agent: Robert Knisely, Grand Rapids

Table 8

SOUTH CENTRAL MICHIGAN
Ottawa County Trial
Zone 2
One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
	Asgrow RX40 (MSX)	18.3	--	--	94.0	---	---	5.1	-
Migro M-0101 (2X)	18.5	22	22	108.6	97	107	9.0	6	4
Dairyland DX1003 (2X)	18.6	--	--	112.4	---	---	5.4	-	-
Michigan 333-3X (3X)	18.6	21	21	97.3	96	107	11.5	7	5
Jacques JX97 (2X)	18.6	--	--	90.2	---	---	11.6	-	-
Rupp XR1490 (2X)	18.8	--	--	89.2	---	---	6.7	-	-
Warwick SL501 (Sp.)	18.9	--	--	112.1	---	---	18.2	-	-
Funk G-4256 (3X)	19.1	--	--	89.0	---	---	12.0	-	-
Garno S-95Y (2X)	19.2	--	--	112.4	---	---	16.7	-	-
Jacques JX147 (2X)	19.2	--	--	110.5	---	---	23.9	-	-
Michigan 3102 (2X)	19.2	22	22	107.8	103	116	5.5	4	3
Farm Bureau FBS300 (2X)	19.2	22	--	89.2	95	---	6.2	4	-
Wolverine W126 (2X)	19.2	22	--	87.0	94	---	5.7	3	-
Amcorn ZX5500 (2X)	19.4	--	--	116.9	---	---	8.8	-	-
Acco UC1905 (2X)	19.5	--	--	98.6	---	---	14.4	-	-
Asgrow RX511 (2X)	19.5	--	--	92.2	---	---	18.5	-	-
Rupp XR1591 (2X)	19.6	--	--	86.2	---	---	3.5	-	-
Andersons SSA (2X)	19.7	--	--	93.5	---	---	8.6	-	-
*Great Lakes GL-455 (2X)	19.7	--	--	128.8	---	---	16.0	-	-
Golden Harvest H-2340 (2X)	19.8	22	23	109.7	108	110	8.0	4	3
Dairyland DX1004 (2X)	19.8	--	--	116.2	---	---	23.6	-	-
Garno S-90 (2X)	19.9	23	--	121.5	118	---	8.1	4	-
Pioneer 3901 (2X)	19.9	23	23	106.3	116	122	4.1	2	2
Wolverine W132 (2X)	20.1	--	--	92.0	---	---	5.0	-	-
*Pride 5525 (2X)	20.3	23	24	128.0	122	128	8.4	5	3
Custom CFS-E2004 (2X)	20.3	--	--	117.7	---	---	3.5	-	-
Great Lakes GL-511 (2X)	20.3	--	--	121.3	---	---	18.5	-	-
Great Lakes GL-422 (2X)	20.3	--	--	120.7	---	---	7.1	-	-
*Migro M-2018X (2X)	20.4	25	25	131.6	117	123	7.2	4	2
Michigan 407-2X (2X)	20.4	23	24	118.7	117	127	12.7	8	5
Funk G-4272 (MSX)	20.4	24	24	91.6	101	118	6.2	4	3
Dairyland DX1007B (MSX)	20.4	24	--	120.2	122	---	8.0	4	-
Blaney B507 (2X)	20.5	--	--	111.9	---	---	6.1	-	-
Pioneer 3780 (2X)	20.5	24	24	118.6	118	129	12.6	7	4
*Custom CFS1450 (2X)	20.5	24	--	138.3	131	---	2.8	2	-
*Migro HP23R (2X)	20.6	25	--	125.9	108	---	9.0	5	-
Blaney B506 (2X)	20.7	24	24	119.3	108	124	2.1	1	1
*DeKalb XL32a (2X)	20.7	--	--	131.7	---	---	4.3	-	-
Funk G-4224 (MSX)	20.7	--	--	102.9	---	---	4.1	-	-
*Great Lakes GL-552 (2X)	20.8	25	--	138.5	125	---	13.7	8	-
Migro HP16 (2X)	20.8	23	--	92.5	104	---	6.9	4	-
Custom CFS4003 (2X)	20.9	--	--	104.6	---	---	5.5	-	-
Super Crost 2350 (2X)	20.9	25	25	114.3	115	128	4.2	3	2
*Andersons SSM (2X)	20.9	--	--	124.9	---	---	13.8	-	-
Custom CFS-W116 (2X)	20.9	--	--	103.1	---	---	6.5	-	-

(continued)

Table 8 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
*Custom CFS1400 (2X)	21.0	--	--	128.9	---	---	2.8	-	-
*Great Lakes GL-477 (2X)	21.0	--	--	146.7	---	---	6.9	-	-
*Migro M-2022 (2X)	21.1	25	25	129.6	118	127	3.5	2	2
*Jacques JX177 (2X)	21.1	--	--	140.8	---	---	3.6	-	-
*Amcorn Exp. 4 (2X)	21.2	--	--	124.5	---	---	16.2	-	-
O's Gold SX1170 (2X)	21.2	--	--	113.1	---	---	4.3	-	-
Migro HP20 (2X)	21.2	23	--	93.9	98	---	5.9	3	-
Golden Harvest H-2373 (2X)	21.3	23	24	93.7	90	99	6.6	5	4
Funk G-4323 (MSX)	21.3	26	--	124.8	118	---	10.1	5	-
Amcorn ZX6500 (2X)	21.5	--	--	101.3	---	---	6.2	-	-
Pioneer X6459 (MSX)	21.7	--	--	119.6	---	---	1.4	-	-
McCurdy 4664 (2X)	21.7	--	--	97.3	---	---	12.8	-	-
DeKalb XL25a (2X)	21.8	--	--	110.5	---	---	0.7	-	-
Acco UC3002 (2X)	21.9	26	26	108.0	111	121	8.3	4	3
*Michigan 5922 (2X)	21.9	25	--	135.9	126	---	3.6	2	-
*Migro HP27 (2X)	22.1	25	--	135.1	129	---	13.4	7	-
Dairyland DX1008 (2X)	22.2	25	--	110.5	111	---	6.8	4	-
Super Crost 79028 (2X)	22.2	--	--	118.8	---	---	3.6	-	-
Blaney B606-wx (2X)	22.4	--	--	123.9	---	---	14.5	-	-
Pride 4488 (2X)	22.4	25	26	120.2	121	126	7.7	4	3
Super Crost 2396 (2X)	22.5	--	--	122.3	---	---	6.9	-	-
Funk G-4444 (2X)	23.4	26	26	106.4	110	124	8.7	5	4
*DeKalb XL55a (2X)	23.6	--	--	144.8	---	---	11.8	-	-
DeKalb XL42a (2X)	24.0	--	--	120.6	---	---	9.4	-	-
*Pioneer 3535 (2X)	24.1	27	28	151.2	127	127	0.7	0	1
Funk G-4435 (MSX)	24.9	--	--	120.6	---	---	2.9	-	-
Average	20.7	24	24	113.8	112	120	8.3	4	3
Range	18.3	21	21	86.2	90	99	0.7	0	1
	to	to	to	to	to	to	to	to	to
	24.9	27	28	151.2	131	129	23.9	8	5
Least significant difference	1.2	0.8	0.7	10.7	7	5	-	-	-

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 17	May 21	May 19
Harvested	November 13	November 12	November 3
Soil type	Gilford and Sebewa loam	Gilford and Sebewa loam	Gilford and Sebewa loam
Previous crop	Corn	Corn	Corn
Population	21,000	21,100	20,800
Rows	30"	30"	30"
Fertilizer	109-34-34	106-24-24	109-36-156
Soil test: pH	6.3	6.0	5.7
P	122 (very high)	197 (very high)	102 (very high)
K	267 (high)	316 (very high)	236 (high)

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 - 1980, 1979, 1978

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Michigan 333-3X (3X)	24.3	25	23	122.9	109	106	0.0	0	0
Funk G-4141A (MSX)	24.7	25	--	111.6	107	---	0.0	0	-
DeKalb XL13 (2X)	24.8	--	--	102.6	---	---	1.9	-	-
Andersons SSA (2X)	24.8	--	--	109.4	---	---	0.8	-	-
Dairyland DX1096 (2X)	25.2	--	--	130.7	---	---	0.0	-	-
Gutwein 3060 (3X)	25.5	--	--	103.9	---	---	0.7	-	-
Warwick W966 (Sp.)	25.6	--	--	131.9	---	---	0.8	-	-
Michigan 3102 (2X)	25.7	26	25	128.8	123	123	0.0	0	0
Payco Exp. SX620 (2X)	25.8	--	--	126.7	---	---	0.0	-	-
Farm Bureau FBS315 (2X)	26.0	26	--	126.1	120	---	0.0	1	-
Hyland HL-2442 (2X)	26.0	26	--	109.4	103	---	2.2	2	-
Garno S-90 (2X)	26.0	25	25	124.5	113	104	0.0	1	0
Rupp XRL490 (2X)	26.2	--	--	99.3	---	---	0.8	-	-
Michigan 407-2X (2X)	26.2	27	27	141.5	133	131	0.7	0	0
Pioneer 3901 (2X)	26.4	27	26	132.1	130	131	0.0	0	0

(continued)

Table 9 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Northrup King PX485 (3X)	26.7	27	--	115.4	109	---	1.4	1	-
Migro HP16 (2X)	26.8	27	--	116.0	111	---	0.0	0	-
Funk G-4224 (MSX)	26.9	28	27	136.5	133	126	0.0	0	0
Seneca 321 (3X)	27.2	27	27	131.4	117	119	1.6	1	1
Migro HP20 (2X)	27.3	27	--	114.5	108	---	0.8	0	-
P-A-G SX181 (2X)	27.3	--	--	116.8	---	---	0.0	-	-
Migro M-0101 (2X)	27.4	--	--	129.9	---	---	1.4	-	-
P-A-G SX189 (2X)	27.4	29	28	124.2	116	114	0.8	0	0
Amcorn ZX6500 (2X)	27.5	--	--	146.4	---	---	0.0	-	-
Payco SC637 (2X)	27.9	--	--	151.0	---	---	0.0	-	-
Funk G-4256 (3X)	28.0	--	--	114.4	---	---	0.9	-	-
Gutwein 2180 (2X)	28.0	--	--	117.8	---	---	0.0	-	-
Jacques JX147 (2X)	28.2	--	--	136.5	---	---	0.0	-	-
Gutwein 2140 (2X)	28.3	--	--	148.2	---	---	0.0	-	-
*Kaltenberg KX61 (2X)	28.4	--	--	163.4	---	---	1.5	-	-
Golden Harvest H-2373 (2X)	28.6	29	27	116.2	108	115	0.0	1	0
Hyland HL-2440 (2X)	28.7	30	--	120.9	114	---	0.0	1	0
Great Lakes GL-422 (2X)	28.7	--	--	129.2	---	---	0.7	-	-
Blaney B606-wx (2X)	28.7	--	--	148.8	---	---	0.0	-	-
Wolverine W168 (2X)	28.8	29	--	121.9	126	---	0.0	0	-
Renk RL46 (3X)	28.9	29	--	140.5	131	---	0.8	0	-
Gold Tag 1090 (MSX)	28.9	--	--	128.6	---	---	0.7	-	-
Renk RL18 (2X)	29.0	--	--	143.0	---	---	0.0	-	-
Asgrow RX511 (2X)	29.1	--	--	136.3	---	---	0.0	-	-
Wolverine W166 (2X)	29.1	30	29	128.6	127	121	0.0	1	1
Jacques JX97 (2X)	29.1	--	--	133.1	---	---	1.6	-	-
Great Lakes GL-455 (2X)	29.1	--	--	135.8	---	---	0.0	-	-
Blaney B605-wx (2X)	29.2	29	27	135.5	118	114	0.7	0	0
DeKalb XL31 (2X)	29.2	--	--	150.0	---	---	0.0	-	-
Funk G-4143 (MSX)	29.2	--	--	129.3	---	---	0.0	-	-
Migro M-2022X (2X)	29.3	29	28	153.3	138	133	1.5	1	1
Seneca S3195 (2X)	29.4	--	--	134.7	---	---	0.0	-	-
Super Crost 2350 (2X)	29.4	30	29	140.1	138	136	0.0	0	0
Garno S-95Y (2X)	29.5	--	--	146.8	---	---	0.8	-	-
Pride R549 (3X)	29.5	29	--	126.8	127	---	0.7	0	-
Super Crost 1950 (MSX)	29.5	29	28	118.4	109	108	0.0	0	0
Pride 4488 (2X)	29.7	30	29	151.3	141	129	0.0	0	0
Super Crost 1700 (MSX)	29.7	--	--	112.6	---	---	0.0	-	-
*Dennis DS3 (3X)	29.7	--	--	157.2	---	---	0.7	-	-
Voris V2411 (2X)	29.8	--	--	143.0	---	---	0.8	-	-
Seneca S2361 (2X)	29.8	30	--	130.2	132	---	1.5	1	-
Seneca T1850 (3X)	29.8	--	--	118.1	---	---	0.0	-	-
Garno S-94 (2X)	29.9	--	--	130.3	---	---	1.4	-	-
Rupp XR1591 (2X)	29.9	--	--	120.1	---	---	0.0	-	-
Dairyland DX1003 (2X)	29.9	--	--	123.9	---	---	1.4	-	-
*Hyland HL-2784 (2X)	29.9	31	--	164.2	159	---	0.7	1	-
*Great Lakes GL-477 (2X)	29.9	--	--	175.9	---	---	0.0	-	-
Great Lakes GL-511 (2X)	30.0	--	--	140.7	---	---	0.0	-	-
O's Gold SX1170 (2X)	30.0	--	--	143.6	---	---	0.8	-	-
Migro HP27 (2X)	30.0	31	--	146.7	142	---	0.0	0	-
Hyland HL-2458 (2X)	30.1	31	--	146.1	136	---	0.0	0	-
*Pride 5525 (2X)	30.1	30	30	171.5	152	136	0.0	0	0
*Golden Harvest XS-700 (2X)	30.1	--	--	163.0	---	---	0.7	-	-
Pioneer 3780 (2X)	30.1	30	29	146.2	144	138	0.0	0	0
*Pioneer X6459 (MSX)	30.1	--	--	157.4	---	---	0.0	-	-
Golden Harvest H-2445 (MSX)	30.1	32	30	145.5	145	136	0.0	0	0
DeKalb XL23 (2X)	30.2	30	--	141.8	139	---	0.0	0	-
*Dennis DS6 (2X)	30.2	--	--	167.8	---	---	0.0	-	-
Garno S-100 (2X)	30.2	31	30	149.0	146	137	2.2	1	1
Garno S-99 (2X)	30.2	--	--	134.2	---	---	0.0	-	-
*Migro M-2018 (2X)	30.2	30	30	164.8	153	142	0.0	0	0
McCurdy 4855 (2X)	30.2	--	--	130.1	---	---	0.0	-	-
Voris V2422 (2X)	30.2	31	30	135.3	137	140	0.8	1	1
Seneca S1341 (2X)	30.3	29	--	132.8	118	---	0.0	0	-
*Amcorn SP9000 (2X)	30.3	--	--	155.9	---	---	0.7	-	-
*Northrup King PX37 (2X)	30.3	31	30	162.3	146	131	0.7	0	0
Lowe LSX100 (2X)	30.3	31	--	132.1	125	---	0.9	0	-
Gutwein 2210 (2X)	30.4	--	--	124.6	---	---	0.0	-	-
Amcorn PSX7480 (2X)	30.5	31	30	147.5	145	141	0.0	0	0
*Northrup King PX39 (2X)	30.5	--	--	173.2	---	---	0.0	-	-
Acco UC2990 (2X)	30.5	--	--	148.5	---				

Table 9 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1980	2	3	1980	2	3	1980	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
*Gries X408 (2X)	30.6	--	--	170.8	---	---	0.7	-	-
Pioneer 3572 (2X)	30.7	--	--	139.3	---	---	0.0	-	-
Gutwein 2250 (2X)	30.7	30	--	129.2	133	---	3.0	2	-
*Kaltenberg KX68 (2X)	30.7	--	--	159.1	---	---	0.0	-	-
Leader SX510 (2X)	30.7	--	--	142.2	---	---	0.0	-	-
Payco SC808 (2X)	30.8	--	--	128.3	---	---	0.0	-	-
*Kaltenberg KX58 (2X)	30.8	--	--	172.0	---	---	0.8	-	-
Garno S-101 (2X)	30.9	--	--	129.5	---	---	0.0	-	-
Low LSX217 (2X)	30.9	31	--	137.9	138	---	0.0	1	-
Renk RK66 (2X)	30.9	31	30	141.7	146	134	0.7	1	1
*Andersons SSM (2X)	30.9	--	--	169.7	---	---	0.7	-	-
*Jacques JX177 (2X)	30.9	--	--	164.9	---	---	0.0	-	-
*Michigan 5922 (2X)	30.9	31	30	172.4	162	155	0.0	0	0
Super Crost 2396 (2X)	31.0	--	--	137.1	---	---	0.0	-	-
Leader HP23R (2X)	31.0	32	--	151.1	136	---	0.0	0	-
Wolverine W174A (2X)	31.1	31	--	144.1	140	---	0.0	0	-
*DeKalb XL55a (2X)	31.1	31	--	160.9	154	---	0.0	0	-
Great Lakes GL-552 (2X)	31.1	31	--	150.9	148	---	0.8	0	-
DeKalb XL42a (2X)	31.1	--	--	141.5	---	---	0.0	-	-
*Payco SX844 (2X)	31.1	--	--	168.0	---	---	0.7	-	-
*Golden Harvest XS-582 (2X)	31.2	--	--	160.1	---	---	0.0	-	-
Pioneer 3535 (2X)	31.2	32	32	143.9	137	139	0.0	0	0
Funk G-4315 (MSX)	31.2	--	--	136.1	---	---	0.7	-	-
Gries X500 (2X)	31.3	--	--	135.5	---	---	1.5	-	-
*DeKalb XL32a (2X)	31.3	32	--	157.6	159	---	0.7	0	-
P-A-G SX249 (2X)	31.4	--	--	151.9	---	---	0.7	-	-
*Funk G-4323 (MSX)	31.4	32	29	161.5	142	132	0.7	0	0
Super Crost 79028 (2X)	31.5	--	--	129.5	---	---	0.0	-	-
Payco SX756 (2X)	31.5	--	--	151.0	---	---	0.7	-	-
*O's Gold SX5500A (2X)	31.6	34	33	158.4	158	148	0.7	0	0
Voris X391 (2X)	31.8	--	--	123.1	---	---	0.0	-	-
*Low LSX222 (2X)	31.8	31	--	174.0	156	---	0.8	0	-
Acco UC3002 (2X)	31.8	32	--	149.4	138	---	0.8	0	-
Gold Tag 2060 (MSX)	32.0	--	--	143.0	---	---	2.2	-	-
Dairyland DX1008 (2X)	32.1	32	--	137.4	141	---	0.7	1	-
Gutwein 46B (2X)	32.2	32	31	144.7	144	139	0.0	0	0
*Dennis DS36 (2X)	32.4	--	--	173.8	---	---	0.0	-	-
*Golden Harvest H-2448 (2X)	32.4	32	--	156.7	154	---	0.0	0	-
*Pioneer 3541 (2X)	32.6	33	32	170.5	146	141	0.0	0	0
Asgrow RX544 (2X)	33.0	33	--	144.9	136	---	0.0	0	-
*Jacques JX179 (2X)	33.1	--	--	171.5	---	---	0.0	-	-
Gold Tag 3010 (3X)	33.4	--	--	146.5	---	---	0.7	-	-
*Golden Harvest H-2500 (2X)	33.4	34	33	157.7	156	148	0.0	0	0
Dennis DS47A (2X)	33.4	--	--	143.4	---	---	0.8	-	-
*Dairyland DX1012 (2X)	33.5	--	--	162.0	---	---	1.5	-	-
*Renk RK77 (2X)	33.7	33	--	161.8	147	---	0.0	1	-
*Dennis DS25 (2X)	34.0	--	--	177.3	---	---	0.0	-	-
*Low LSX317 (2X)	34.1	--	--	167.0	---	---	0.0	-	-
Average	29.7	30	29	141.8	134	130	0.0	0.4	0.2
Range	24.3	24	23	99.3	103	104	0.0	0	0
to	34.1	34	33	177.3	162	155	3.0	2	1
Least significant difference	1.5	1.0	0.8	13.5	9	5	-	-	-

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 6	May 7	April 26
Harvested	October 6	October 10	October 3
Soil type	Capac loam	Capac loam	Capac loam
Previous Crop	Corn	Corn	Corn
Population	21,700	21,300	20,600
Rows	36"	36"	36"
Fertilizer	150-50-50	150-50-50	150-50-50
Soil test: pH	6.4	6.4	6.5
K	120 (very high)	119 (very high)	78 (high)
P	212 (high)	220 (high)	173 (medium)

Farm Cooperator: Michigan State University, East Lansing

County Extension Director: Marvin Preston, Mason

Table 10

SOUTH CENTRAL MICHIGAN
Ingham County Trial - Silage
One, Two, Three Year Averages - 1980, 1979, 1978

Zone 2

Hybrid (Brand-Variety)	% Dry matter			Tons per acre					
	1980	2	3	Green weight			Dry weight		
	yr.	yr.	yr.	1980	2	3	1980	2	3
Michigan 333-3X (3X)	40.2	38.1	41.4	15.0	16.1	15.6	6.0	6.1	6.4
Dairyland DX1096 (2X)	38.2	---	---	16.8	---	---	6.4	---	---
Andersons SSA (2X)	38.1	---	---	13.4	---	---	5.1	---	---
Michigan 3102 (2X)	38.0	36.6	39.4	17.0	17.0	16.8	6.5	6.2	6.6
Migro HP16 (2X)	36.7	37.1	---	16.8	17.2	---	6.1	6.3	---
Gutwein 2180 (2X)	36.7	---	---	16.0	---	---	5.9	---	---
Rupp XR1490 (2X)	36.5	---	---	13.9	---	---	5.1	---	---
Seneca S1341 (2X)	36.4	34.5	---	15.0	16.3	---	5.5	5.6	---
DeKalb XL13 (2X)	36.4	---	---	16.3	---	---	5.9	---	---
Funk G-4141A (MSX)	36.1	35.2	---	17.5	17.1	---	6.3	6.0	---
Super Crost 1700 (MSX)	35.6	---	---	12.8	---	---	4.6	---	---
Hyland HL-2442 (2X)	35.1	33.7	---	14.4	15.2	---	5.1	5.1	---
Payco SX888 (2X)	35.1	---	---	17.9	---	---	6.3	---	---
Warwick W966 (Sp.)	35.1	---	---	18.8	---	---	6.6	---	---
Funk G-4224 (MSX)	34.8	34.1	37.3	19.4	20.1	19.0	6.7	6.8	7.0
Gutwein 3060 (3X)	34.6	---	---	16.1	---	---	5.6	---	---
P-A-G SX189 (2X)	34.4	34.3	36.9	17.3	17.2	17.5	5.9	5.9	6.5
Wolverine W168 (2X)	34.3	33.4	---	18.3	19.7	---	6.3	6.5	---
Golden Harvest H-2373 (2X)	34.1	32.5	35.9	16.0	18.4	17.4	5.5	6.0	6.2
Garno S-94 (2X)	34.0	---	---	16.7	---	---	5.7	---	---
Michigan 407-2X (2X)	34.0	33.7	37.0	18.4	18.5	17.9	6.2	6.2	6.5
P-A-G SX181 (2X)	33.8	---	---	17.9	---	---	6.1	---	---
Migro M-0101 (2X)	33.8	---	---	18.6	---	---	6.3	---	---
Pioneer 3901 (2X)	33.7	32.9	37.6	16.7	18.0	16.4	5.6	5.9	5.9
Dairyland DX1003 (2X)	33.6	---	---	19.1	---	---	6.4	---	---
Acco UC2990 (2X)	33.5	---	---	18.6	---	---	6.2	---	---
McKenzie 987 (2X)	33.5	---	---	17.2	---	---	5.8	---	---
Super Crost 1950 (MSX)	33.5	34.1	36.8	19.4	18.3	17.1	6.5	6.2	6.2
DeKalb XL31 (2X)	33.3	---	---	18.2	---	---	6.0	---	---
Seneca S2361 (2X)	33.2	32.3	---	19.2	20.8	---	6.4	6.7	---
McCurdy 4855 (2X)	33.2	---	---	16.9	---	---	5.6	---	---
Funk G - 4143 (MSX)	33.0	---	---	20.1	---	---	6.6	---	---
Amcorn ZX6500 (2X)	33.0	---	---	18.3	---	---	6.0	---	---
Garno S-90 (2X)	32.6	32.2	35.8	17.4	18.4	17.6	5.7	5.9	6.2
Low LSX100 (2X)	32.6	30.0	---	16.0	19.7	---	5.2	5.8	---
Blaney B605-wx (2X)	32.5	31.6	34.5	19.0	19.6	19.3	6.2	6.2	6.6
Wolverine W166 (2X)	32.5	30.5	33.8	19.0	20.4	19.5	6.2	6.2	6.5
Northrup King PX485 (3X)	32.5	32.5	---	17.3	17.5	---	5.6	5.6	---
Great Lakes GL-422 (2X)	32.5	---	---	18.5	---	---	6.0	---	---
Gutwein 2210 (2X)	32.5	---	---	19.1	---	---	6.2	---	---
Gutwein 2140 (2X)	32.5	---	---	20.7	---	---	6.7	---	---
Acco UC3002 (2X)	32.5	31.4	---	20.1	20.6	---	6.5	6.4	---
Payco SX637 (2X)	32.1	---	---	20.4	---	---	6.6	---	---
Renk RK18 (2X)	32.0	---	---	18.4	---	---	5.9	---	---
Seneca 321 (3X)	32.0	31.6	34.7	17.9	18.1	18.2	5.7	5.7	6.3
Payco Exp. SX620 (2X)	32.0	---	---	20.3	---	---	6.5	---	---
Migro HP20 (2X)	32.0	31.5	---	17.5	18.0	---	5.6	5.6	---
Renk RK146 (3X)	31.9	32.1	---	20.2	20.5	---	6.5	6.6	---
Kaltenberg KX61 (2X)	31.9	---	---	18.4	---	---	5.9	---	---
Super Crost 2350 (2X)	31.8	31.0	34.5	19.7	19.7	18.8	6.3	6.1	6.4
Pride 4488 (2X)	31.8	30.9	34.3	20.8	19.1	18.6	6.6	5.9	6.3
Hyland HL-2440 (2X)	31.8	32.0	---	16.3	17.8	---	5.2	5.7	---
Seneca TR550 (3X)	31.8	---	---	16.2	---	---	5.1	---	---
Northrup King PX37 (2X)	31.7	31.7	34.4	21.5	21.5	21.0	6.8	6.8	7.2
Super Crost 79028 (2X)	31.6	---	---	17.8	---	---	5.6	---	---
Garno S-95Y (2X)	31.6	---	---	18.8	---	---	5.9	---	---
Voris V2411 (2X)	31.6	---	---	18.9	---	---	6.0	---	---
Pioneer 3780 (2X)	31.6	31.7	34.9	18.8	19.4	18.5	5.9	6.1	6.4
Farm Bureau FBS315 (2X)	31.5	31.6	---	16.9	17.9	---	5.3	5.6	---
Dennis DS3 (2X)	31.5	---	---	18.3	---	---	5.8	---	---
Hyland HL-2458 (2X)	31.4	30.8	---	19.7	20.2	---	6.2	6.2	---
Garno S-101 (2X)	31.4	---	---	18.0	---	---	5.7	---	---
DeKalb XL23 (2X)	31.4	30.7	---	20.2	21.4	---	6.3	6.5	---
Jacques JX147 (2X)	31.2	---	---	18.3	---	---	5.7	---	---
Great Lakes GL-455 (2X)	31.2	---	---	22.1	---	---	6.9	---	---
Voris V2441 (2X)	31.1	30.9	---	20.0	19.2	---	6.2	5.9	---
Great Lakes GL-477 (2X)	31.0	---	---	23.2	---	---	7.2	---	---
Migro HP23R (2X)	30.9	29.1	---	23.5	23.9	---	7.3	7.0	---
Payco SX756 (2X)	30.9	---	---	24.3	---	---	7.5	---	---
Voris V2422 (2X)	30.8	---	---	18.4	---	---	5.7	---	---

(continued)

Table 10 (continued)

Hybrid (Brand-Variety)	Tons per acre					
	% Dry matter		Green weight		Dry weight	
	1980	2 yr. yr.	1980	2 yr. yr.	1980	2 yr. yr.
Blaney B606-wx (2X)	30.8	---	23.8	---	7.3	---
Rupp XR1591 (2X)	30.8	---	19.4	---	6.0	---
Gold Tag 1090 (MSX)	30.7	---	19.1	---	5.9	---
Gutwein 46B (2X)	30.6	29.8 34.0	21.4	22.3 20.6	6.6	6.7 6.9
Golden Harvest H-2448 (2X)	30.6	30.5	23.4	22.8	7.1	6.9
DeKalb XL42a (2X)	30.6	---	20.1	---	6.1	---
Hyland HL-2784 (2X)	30.5	30.7	23.2	21.8	7.1	6.7
Kaltenberg KX58 (2X)	30.5	---	25.5	---	7.7	---
Gutwein 2250 (2X)	30.5	30.6	19.4	19.5	5.9	5.9
Golden Harvest H-2445 (MSX)	30.4	29.9 32.0	18.4	20.7 19.6	5.6	6.2 6.2
Funk G-4256 (3X)	30.4	---	18.5	---	5.6	---
DeKalb XL32a (2X)	30.4	29.7	20.7	21.3	6.3	6.3
Migro M-2022X (2X)	30.4	30.2 34.4	18.4	19.5 19.1	5.6	5.9 6.5
Gries X408 (2X)	30.3	---	22.1	---	6.7	---
Funk G-4315 (MSX)	30.3	---	20.4	---	6.2	---
Payco SX808 (2X)	30.2	---	17.1	---	5.2	---
P-A-G SX249 (2X)	30.1	---	20.1	---	6.0	---
Asgrow RX511 (2X)	30.1	---	20.3	---	6.1	---
Jacques JX97 (2X)	30.1	---	21.7	---	6.3	---
Leader SX510 (2X)	30.0	---	21.2	---	6.4	---
Dennis DS6 (2X)	30.0	---	21.9	---	6.6	---
Golden Harvest XS-700 (2X)	30.0	---	22.9	---	6.9	---
Pioneer X6459 (MSX)	29.8	---	19.7	---	5.9	---
Lowe LSX222 (2X)	29.7	29.2	20.9	20.8	6.3	6.1
Northrup King PX39 (2X)	29.7	---	23.1	---	6.9	---
Migro M-2018 (2X)	29.7	29.4 31.3	23.1	23.6 21.4	6.9	6.9 6.6
Golden Harvest XS-582 (2X)	29.6	---	22.4	---	6.6	---
DeKalb XL55a (2X)	29.6	28.8	24.0	23.7	7.1	6.8
Gold Tag 2060 (MSX)	29.6	---	23.2	---	6.9	---
Wolverine W174a (2X)	29.5	28.0	22.5	22.9	6.6	6.4
Kaltenberg KX68 (2X)	29.4	---	22.0	---	6.5	---
Lowe LSX217 (2X)	29.4	30.4	17.7	18.9	5.2	5.7
Dairyland DX1008 (2X)	29.4	29.0	19.2	20.2	5.7	5.9
Pride 5525 (2X)	29.1	29.5 31.9	26.0	24.3 22.3	7.5	7.1 6.9
Super Crost 2396 (2X)	29.0	---	20.6	---	6.0	---
Great Lakes GL-511 (2X)	29.0	---	20.2	---	5.9	---
Garno S-100 (2X)	28.9	29.4 31.6	24.6	24.3 23.1	7.1	7.1 7.2
Great Lakes GL-552 (2X)	28.8	28.9	24.3	23.6	7.0	6.8
Voris X391 (2X)	28.7	---	18.2	---	5.2	---
Payco SX884 (2X)	28.7	---	20.8	---	6.0	---
Asgrow RX544 (2X)	28.6	29.3	20.7	21.8	5.9	6.3
Renk RK66 (2X)	28.6	29.3 32.6	24.7	22.8 20.9	7.1	6.7 6.7
Garno S-99 (2X)	28.5	---	22.9	---	6.5	---
Amcorn PSX7480 (2X)	28.5	28.6 31.1	21.3	21.4 20.8	6.1	6.1 6.4
Dennis DS47A (2X)	28.5	---	21.3	---	6.1	---
Lowe LSX317 (2X)	28.5	---	26.1	---	7.5	---
Seneca S3195 (2X)	28.5	---	20.3	---	5.8	---
O's Gold SX1170 (2X)	28.4	---	21.9	---	6.2	---
Pioneer 3572 (2X)	28.4	---	22.9	---	6.5	---
Gries X500 (2X)	28.4	---	23.2	---	6.6	---
Michigan 5922 (2X)	28.4	28.9 32.0	25.0	24.0 22.4	7.1	6.9 7.0
Andersons SSM (2X)	28.3	---	24.9	---	7.0	---
Funk G-4323 (MSX)	28.3	27.9 31.0	24.4	23.1 21.5	6.9	6.5 6.5
Dennis DS36 (2X)	28.1	---	25.5	---	7.2	---
Pioneer 3535 (2X)	28.1	28.9 31.3	22.1	22.6 21.6	6.2	6.5 6.7
Pioneer 3541 (2X)	28.0	28.7 31.7	23.6	22.6 21.1	6.6	6.5 6.6
Dennis DS25 (2X)	28.0	---	27.2	---	7.6	---
Pride R549 (3X)	28.0	29.4	22.3	22.1	6.2	6.5
Amcorn SP9000 (2X)	27.7	---	22.0	---	6.1	---
Jacques JX177 (2X)	27.6	---	21.1	---	5.8	---
Renk RK77 (2X)	27.4	27.0	22.1	23.1	6.0	6.2
Migro HP27 (2X)	27.3	27.8	24.1	23.9	6.6	6.6
DeKalb XL25a (2X)	27.2	28.3	22.4	22.7	6.1	6.4
Dairyland DX1012 (2X)	26.9	---	23.6	---	6.4	---
Jacques JX179 (2X)	25.5	---	25.2	---	6.4	---
Golden Harvest H-2500 (2X)	25.5	25.4 28.7	28.2	28.1 25.8	7.2	7.1 7.2
O's Gold SX500A (2X)	25.5	26.2 28.4	28.9	28.0 26.1	7.4	7.3 7.3
Gold Tag 3010 (3X)	24.5	---	23.2	---	5.6	---
Average	31.4	30.9 34.0	20.2	20.6 19.8	6.2	6.2 6.5
Range	24.5	25.4 28.4	12.8	15.2 15.6	4.6	5.1 5.9
	40.2	38.1 41.4	28.9	28.1 26.1	7.7	7.3 7.3

(continued)

Table 10 (continued)

Hybrid (Brand-Variety)	Tons per acre					
	% Dry matter		Green weight		Dry weight	
	1980	2 yr. yr.	1980	2 yr. yr.	1980	2 yr. yr.
Least significant difference	2.6	1.5 1.1	1.8	1.2 0.8	0.6	0.5 0.4

	1980	1979	1978
Planted	May 6	May 7	April 26
Harvested	September 8	September 10	September 5
Soil type	Capac loam	Capac loam	Capac loam
Previous crop	Corn	Corn	Corn
Population	21,500	21,300	20,400
Rows	36"	36"	36"
Fertilizer	150-50-50	150-50-50	150-50-50
Soil test: pH	6.4	6.4	6.5
P	120 (very high)	119 (very high)	78 (high)
K	212 (high)	220 (high)	173 (medium)

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 - 1980, 1979, 1978
Zone 3

Hybrid (Brand-Variety)	%Moisture						Bushels per acre			%Stalk lodging		
	1980		2 yr. yr.		3 yr. yr.		1980		2 yr. yr.		3 yr. yr.	
	Funk G-4085 (3X)	19.3	---	88.5	---	6.4	---					
Golden Harvest XS-924 (2X)	20.7	---	103.8	---	3.4	---						
Seneca 149 (3X)	20.9	22 24	101.9	96 93	0.7	0 0						
Michigan 333-3X (3X)	20.9	23 23	100.0	108 107	5.1	4 3						
Hyland HL-2442 (2X)	21.0	---	112.7	---	0.0	---						
Wolverine W132 (2X)	21.3	---	116.1	---	0.7	---						
Garnett Ross 5328 (Sp.)	21.7	---	113.1	---	1.5	---						
Andersons SSA (2X)	21.8	---	123.5	---	0.7	---						
Trojan T929 (2X)	21.9	---	94.3	---	0.7	---						
DeKalb XL13 (2X)	21.9	25	110.5	112	1.4	5						
Blaney B302-wx (2X)	22.0	25 25	97.5	110 103	0.0	0 0						
Gutwein 3060 (3X)	22.0	---	89.6	---	4.3	---						
Migro M-0101 (2X)	22.1	25 25	108.5	118 109	0.0	4 3						
Trojan TXS94 (2X)	22.2	27	98.2	100	0.7	0						
Jacques JX97 (2X)	22.3	---	117.4	---	0.0	---						
Warwick TX27 (3X)	22.3	---	113.8	---	2.1	---						
Trojan T930 (2X)	22.6	---	96.8	---	0.0	---						
Kaltenberg KX50 (2X)	22.6	---	124.7	---	0.0	---						
Gutwein 2085 (2X)	22.6	---	121.9	---	0.0	---						
Michigan 3102 (2X)	22.7	25 25	124.9	121 112	0.0	0 0						
Cargill Exp. 263047 (2X)	22.7	---	126.7	---	2.1	---						
O's Gold SX1005 (2X)	22.7	---	111.9	---	2.0	---						
Pioneer 3950 (MSX)	22.8	26	113.6	105	0.0	0						
Garno S-85X (2X)	22.8	---	129.9	---	2.1	---						
Funk G-4141A (MSX)	22.8	25	116.3	119	0.7	1						
Warwick W901 (2X)	22.9	---	90.7	---	0.0	---						
Asgrow RX511 (2X)	23.0	---	128.1	---	3.5	---						
Garno S-94 (2X)	23.1	---	128.9	---	0.0	---						
*Garno S-90 (2X)	23.2	27	134.3	130	0.0	0						
P-A-G SX181 (2X)	23.3	---	118.0	---	0.0	---						
Funk G-4256 (3X)	23.3	---	120.5	---	0.0	---						
Pioneer 3901 (2X)	23.3	27 26	129.7	136 132	0.7	0 0						
Funk G-4143 (MSX)	23.4	---	103.7	---	5.0	---						
Acco UC2951 (2X)	23.4	27 27	124.3	124 117	0.0	0 0						
Great Lakes GL-455 (2X)	23.4	---	130.3	---	0.0	---						
Super Crost 1700 (MSX)	23.5	---	111.2	---	0.7	---						
*Kaltenberg KX55 (2X)	23.5	---	137.2	---	0.7	---						
Gutwein 2140 (2X)	23.5	27 26	131.8	123 112	2.0	1 1						
Renk RK18 (2X)	23.6	---	132.9	---	0.0	---						
Asgrow RX40 (MSX)	23.6	26 26	122.1	118 108	0.0	0 0						
*Sohigro Exp. 290 (2X)	23.6	---	139.3	---	0.7	---						
DeKalb XL14aa (2X)	23.7	---	119.3	---	0.0	---						
*Amcorn Exp. 4 (2X)	23.7	---	134.0	---	0.7	---						
*Hyland HL-2428 (2X)	23.7	---	133.5	---	2.0	---						
*Great Lakes GL-422 (2X)	23.8	---	139.9	---	0.0	---						

(continued)

Table 11 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
	Trojan TX90 (3X)	23.8	26	26	107.9	100	108	1.4	2
Pride R319 (3X)	23.9	--	--	130.3	---	---	2.8	--	--
P-A-G SX67 (2X)	23.9	--	--	102.8	---	---	0.0	--	--
Blaney B443 (2X)	23.9	27	28	124.2	122	110	2.1	4	3
Pioneer 3906 (2X)	23.9	--	--	125.3	---	---	0.0	--	--
Migro HP16 (2X)	23.9	26	--	101.1	97	---	1.5	3	--
Golden Harvest H-2370 (2X)	24.0	27	27	99.0	104	111	1.4	2	1
Dairyland DX1004 (2X)	24.0	--	--	116.5	---	---	2.8	--	--
Michigan 407-2X (2X)	24.0	27	27	131.8	125	119	0.8	2	1
*Hyland HL-2440 (2X)	24.1	--	--	135.0	---	---	0.8	--	--
*O's Gold SX999 (2X)	24.2	29	--	133.0	129	---	0.0	0	--
*Trojan T1008 (2X)	24.2	27	27	140.5	130	117	0.0	0	0
Pride 4488 (2X)	24.2	29	29	120.7	134	128	0.0	0	0
Great Lakes GL-511 (2X)	24.2	--	--	129.2	---	---	1.5	--	--
Voris X401 (2X)	24.2	--	--	110.0	---	---	0.0	--	--
*Pride 4461 (2X)	24.3	--	--	135.1	---	---	2.1	--	--
Super Crost 1950 (MSX)	24.4	28	27	127.4	125	121	0.0	0	0
Jacques JX122A (2X)	24.5	--	--	132.8	---	---	0.0	--	--
Kaltenberg KX58 (2X)	24.7	--	--	102.8	---	---	0.0	--	--
Blaney B506-wx (2X)	24.7	27	27	124.8	121	118	0.0	0	0
Hyland HL-2458 (2X)	24.8	--	--	119.8	---	---	0.0	--	--
Super Crost 79028 (2X)	24.9	--	--	109.2	---	---	1.4	--	--
DeKalb XL25a (2X)	25.0	--	--	124.4	---	---	0.0	--	--
Voris V2381 (2X)	25.0	29	28	123.0	125	116	0.0	0	0
Amcorn ZX5500 (2X)	25.0	--	--	120.9	---	---	1.4	--	--
Garno S-95Y (2X)	25.0	--	--	115.6	---	---	1.4	--	--
*P-A-G SX189 (2X)	25.2	29	29	134.0	122	115	0.0	1	0
*Funk G-4224 (MSX)	25.4	29	--	140.6	133	---	1.4	1	--
Acco UC2901 (2X)	25.6	28	28	125.4	127	121	1.4	2	1
Andersons SSM (2X)	25.7	--	--	122.4	---	---	0.0	--	--
Wolverine W126 (2X)	25.7	28	--	116.9	114	---	0.7	1	--
Jacques JX147 (2X)	25.7	--	--	122.1	---	---	4.2	--	--
Cargill 838 (2X)	25.7	29	28	121.4	115	108	1.4	1	1
P-A-G SX177 (2X)	25.9	28	27	124.1	122	117	0.0	0	0
*Great Lakes GL-477 (2X)	26.0	--	--	154.4	---	---	0.0	--	--
*Kaltenberg KX54 (2X)	26.0	--	--	142.6	---	---	0.0	--	--
*Pioneer X6459 (MSX)	26.0	--	--	141.2	---	---	0.0	--	--
Super Crost 2396 (2X)	26.2	--	--	132.3	---	---	0.0	--	--
Renk R146 (3X)	26.4	29	--	120.3	123	---	0.0	0	--
Pride 5525 (2X)	26.4	30	30	132.1	131	120	0.0	0	0
Amcorn PSX7300 (2X)	26.6	29	29	113.9	127	122	0.0	0	0
DeKalb XL31 (2X)	26.6	--	--	121.5	---	---	4.3	--	--
Migro M-2022X (2X)	26.6	30	--	127.4	121	---	1.4	1	--
Pride R549 (3X)	26.6	29	--	116.6	121	---	0.7	0	--
Migro HP20 (2X)	26.9	29	--	115.9	118	---	0.0	0	--
Kaltenberg KX61 (2X)	27.0	--	--	131.1	---	---	0.0	--	--
*Cargill Exp. 181001 (2X)	27.0	--	--	143.0	---	---	0.7	--	--
*Wolverine W166 (2X)	27.0	30	--	139.8	127	---	0.0	0	--
Voris V2411 (2X)	27.2	--	--	127.9	---	---	0.0	--	--
Blaney B506-wx (2X)	27.2	--	--	127.7	---	---	0.0	--	--
Super Crost 2350 (2X)	27.4	30	29	118.8	122	115	0.0	0	0
Asgrow RX2345 (2X)	27.7	30	31	120.2	119	110	1.4	1	1
*Dairyland DX1008 (2X)	28.5	--	--	138.4	---	---	0.7	--	--
Migro HP23R (2X)	28.6	31	--	122.4	121	---	0.0	0	--
DeKalb XL32a (2X)	28.7	--	--	126.6	---	---	0.7	--	--
*Blaney B606 (2X)	28.8	31	31	143.5	138	120	0.0	0	0
Migro M-2018X (2X)	29.0	32	31	132.7	131	121	0.7	0	0
*Michigan 5922 (2X)	29.0	32	--	146.5	139	---	0.0	0	--
Renk RK66 (2X)	29.1	32	31	131.2	132	118	0.0	0	0
Great Lakes GL-552 (2X)	29.2	32	--	132.4	134	---	1.4	2	--
Trojan TXS102 (2X)	29.6	32	--	131.1	132	---	0.0	1	--
Kaltenberg KX68 (2X)	30.0	--	--	113.5	---	---	0.7	--	--
Golden Harvest H-2500 (2X)	30.2	33	--	115.2	122	---	0.0	0	--
Average	24.7	28	27	121.2	121	115	0.8	1	1
Range	19.3	22	23	88.5	96	93	0.0	0	0
	to	to	to	to	to	to	to	to	to
	30.2	33	31	154.4	139	132	6.4	5	3
Least significant difference	1.5	0.9	0.7	11.8	8	5	--	--	--

(continued)

Table 11 (continued)

*Significantly better than average yield in 1980.

	1980		1979		1978	
	May 10	November 11	May 14	November 14	May 20	November 4
Planted						
Harvested						
Soil type	Parkhill loam		Parkhill loam		Parkhill loam	
Previous crop	Corn		Corn		Corn	
Population	21,400		21,500		19,900	
Rows	30"		30"		30"	
Fertilizer	118-72-192		125-50-70		120-60-134	
Soil test: pH	7.5		6.8		6.9	
P	99 (high)		101 (very high)		64 (medium high)	
K	172 (medium)		194 (medium)		200 (medium)	

Farm Cooperator: Orville Orchard, Applegate

County Extension Director: Rex Sieling, Sandusky

Table 12

NORTH CENTRAL MICHIGAN
Sanilac County Trial - Silage
One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	Tons per acre								
	%Dry matter			Green weight			Dry weight		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Seneca 149 (3X)	49.2	45.5	42.7	12.6	13.7	13.5	6.2	6.2	5.8
Migro M-0101 (2X)	46.5	38.0	36.9	14.6	18.5	17.8	6.8	6.7	6.3
Trojan T929 (2X)	46.4	---	---	11.3	---	---	5.2	---	---
Michigan 333-3X (3X)	46.6	40.4	39.2	13.7	16.3	15.6	6.4	6.4	6.0
Trojan TX90 (3X)	43.6	35.8	35.6	11.9	14.9	15.3	5.2	5.1	5.3
Funk G-4085 (3X)	43.3	---	---	11.6	---	---	5.0	---	---
Hyland HL-2428 (2X)	43.2	---	---	14.2	---	---	6.2	---	---
DeKalb XL13 (2X)	43.1	37.2	---	16.5	19.1	---	7.1	6.9	---
Garno S-90 (2X)	43.1	37.0	---	15.8	19.7	---	6.8	7.0	---
Garno S-85X (2X)	43.0	---	---	14.4	---	---	6.1	---	---
Andersons SSA (2X)	42.7	---	---	17.4	---	---	7.4	---	---
Trojan T930 (2X)	42.5	---	---	12.0	---	---	5.1	---	---
Great Lakes GL-422 (2X)	42.3	---	---	16.3	---	---	6.9	---	---
Pride R319 (3X)	42.0	---	---	17.5	---	---	7.4	---	---
Pioneer 3950 (2X)	41.9	38.3	---	13.4	15.7	---	5.6	6.1	---
Hyland HL-2442 (2X)	41.5	---	---	13.8	---	---	5.7	---	---
Voris V2381 (2X)	41.5	34.9	32.8	17.8	21.0	19.5	7.4	7.1	6.3
P-A-G SX181 (2X)	41.3	---	---	15.5	---	---	6.4	---	---
Wolverine W126 (2X)	41.3	36.2	---	16.7	18.3	---	6.9	6.5	---
Gutwein 2085 (2X)	40.9	---	---	15.1	---	---	6.1	---	---
Michigan 3102 (2X)	40.8	35.5	35.3	18.5	20.0	18.8	7.5	7.0	6.6
Super Crost 1700 (MSX)	40.6	---	---	15.7	---	---	6.3	---	---
Pioneer 3901 (2X)	40.4	34.7	33.4	19.3	22.6	12.7	7.7	7.6	7.1
O's Gold SX1005 (2X)	39.5	---	---	19.2	---	---	7.6	---	---
Golden Harvest XS-824 (2X)	39.2	---	---	14.5	---	---	5.6	---	---
Wolverine W132 (2X)	39.2	---	---	14.8	---	---	5.8	---	---
Funk G-4141a (2X)	39.1	36.4	---	16.7	18.8	---	6.5	6.8	---
Trojan TXS94 (2X)	38.7	33.2	---	13.2	15.5	---	5.1	5.0	---
Blaney B302-wx (2X)	38.5	35.0	35.0	14.5	16.8	15.5	5.6	5.8	5.4
Funk G-4143 (MSX)	38.4	---	---	18.2	---	---	7.0	---	---
Warwick W901 (2X)	38.3	---	---	13.9	---	---	5.3	---	---
Michigan 407-2X (2X)	38.3	32.8	32.6	17.9	20.6	19.4	6.8	6.6	6.2
Warwick TX27 (3X)	38.2	---	---	15.3	---	---	5.9	---	---
Asgrow RX40 (MSX)	38.1	33.0	32.3	18.4	19.9	18.0	7.0	6.5	5.8
Amcorn ZX5500 (2X)	38.0	---	---	19.9	---	---	7.6	---	---
Hyland HL-2458 (2X)	37.7	---	---	20.8	---	---	7.9	---	---
Amcorn Exp. 4 (2X)	37.6	---	---	20.0	---	---	7.5	---	---
P-A-G SX189 (2X)	37.6	34.0	33.1	16.4	19.7	18.6	6.2	6.6	6.1
Pioneer 3906 (2X)	37.3	---	---	16.1	---	---	6.0	---	---
Cargill Exp. 263047 (2X)	37.3	---	---	15.9	---	---	5.9	---	---
Migro HP16 (2X)	37.3	34.3	---	17.2	18.1	---	6.4	6.1	---
Garno S-95Y (2X)	37.2	---	---	21.8	---	---	8.2	---	---
Wolverine W166 (2X)	37.2	31.0	---	18.3	23.7	---	6.7	7.0	---
DeKalb XL25a (2X)	37.2	---	---	15.6	---	---	5.8	---	---
Renk RK18 (2X)	36.9	---	---	17.8	---	---	6.6	---	---

(continued)

Table 12 (continued)

Hybrid (Brand-Variety)	Tons per acre								
	%Dry matter			Green weight			Dry weight		
	1980	2 yr.	3 yr.	1980	yr.	yr.	1980	yr.	yr.
Garno S-94 (2X)	36.9	---	---	18.8	---	---	6.9	---	---
Funk G-4224 (MSX)	36.7	32.0	---	20.4	24.3	---	7.5	7.6	---
Kaltenberg KX35 (2X)	36.5	---	---	17.6	---	---	6.3	---	---
Great Lakes GL-455 (2X)	36.3	---	---	21.7	---	---	7.9	---	---
Super Crost 79028 (2X)	35.9	---	---	19.9	---	---	7.2	---	---
Gutwein 3060 (3X)	35.9	---	---	17.2	---	---	6.0	---	---
Jacques JX97 (2X)	35.8	---	---	17.8	---	---	6.4	---	---
Funk G-4256 (3X)	35.7	---	---	17.5	---	---	6.3	---	---
Kaltenberg KX54 (2X)	35.7	---	---	20.8	---	---	7.3	---	---
Pride 4488 (2X)	35.6	29.5	29.0	17.5	21.7	19.9	6.2	6.1	5.6
Garnett Ross 5328 (Sp.)	35.6	---	---	22.5	---	---	8.0	---	---
Asgrow RX511 (2X)	35.5	---	---	21.7	---	---	7.7	---	---
Super Crost 2350 (2X)	35.5	30.8	30.6	19.2	22.2	20.6	6.8	6.7	6.2
Jacques JX147 (2X)	35.3	---	---	20.5	---	---	7.2	---	---
P-A-G SX177 (2X)	35.3	31.8	31.8	15.8	19.5	18.3	5.5	6.0	5.7
Golden Harvest H-2370 (2X)	35.3	31.9	32.1	15.9	18.5	18.0	5.6	5.8	5.7
Blaney B506-wx (2X)	35.2	---	---	21.4	---	---	7.6	---	---
Sohigro Exp. 290 (2X)	35.1	---	---	23.3	---	---	8.2	---	---
Voris X401 (2X)	35.1	---	---	24.5	---	---	8.6	---	---
DeKalb XL31 (2X)	35.1	---	---	23.7	---	---	8.3	---	---
Dairyland DX1004 (2X)	35.1	---	---	24.4	---	---	8.6	---	---
Voris V2411 (2X)	35.1	---	---	23.2	---	---	8.1	---	---
Hyland HL-2440 (2X)	35.1	---	---	15.5	---	---	5.4	---	---
Blaney B443 (2X)	35.0	30.7	31.9	17.1	20.1	19.0	6.0	6.0	6.0
Super Crost 1950 (MSX)	34.9	30.5	31.0	20.6	22.3	19.4	7.2	6.7	5.9
DeKalb XL14aa (2X)	34.8	---	---	20.7	---	---	7.2	---	---
Gutwein 2140 (2X)	34.8	30.8	31.9	24.3	26.0	23.0	8.5	8.0	7.2
Kaltenberg KX50 (2X)	34.8	---	---	23.0	---	---	8.0	---	---
Renk R146 (3X)	34.6	28.7	---	18.0	22.9	---	6.3	6.3	---
O's Gold 999 (2X)	34.4	29.9	---	22.6	24.6	---	7.7	7.2	---
Blaney B605-wx (2X)	34.3	29.8	29.4	20.6	22.7	21.0	7.1	6.7	6.1
Great Lakes GL-477 (2X)	34.3	---	---	25.7	---	---	8.8	---	---
Dairyland DX1008 (2X)	34.3	---	---	21.5	---	---	7.4	---	---
Migro HP20 (2X)	34.3	31.4	---	18.1	21.7	---	6.2	6.7	---
Kaltenberg KX61 (2X)	34.2	---	---	21.5	---	---	7.4	---	---
Acco UC2951 (2X)	33.9	30.5	30.7	19.3	21.6	19.7	6.6	6.5	6.0
Amcorn PSX7300 (2X)	33.9	28.0	27.9	20.0	23.5	21.9	6.8	6.4	6.0
Cargill 838 (2X)	33.6	31.8	32.8	19.3	20.8	18.2	6.5	6.6	5.9
Pride 5525 (2X)	33.6	28.7	28.2	22.8	26.4	24.6	7.7	7.4	6.8
Pioneer X6459 (MSX)	33.4	---	---	23.0	---	---	7.7	---	---
Blaney B606 (2X)	33.4	28.4	28.6	23.8	24.6	22.6	7.9	7.0	6.4
Trojan T1008 (2X)	33.4	30.4	30.5	21.1	23.7	21.7	7.0	7.1	6.8
P-A-G SX67 (2X)	33.4	---	---	18.6	---	---	6.2	---	---
Jacques JX122 A (2X)	33.3	---	---	20.7	---	---	6.9	---	---
Great Lakes GL-511 (2X)	33.3	---	---	20.4	---	---	6.8	---	---
Pride R549 (3X)	33.2	28.2	---	23.7	27.6	---	7.9	7.6	---
Trojan TXS102 (2X)	33.1	28.9	---	19.6	24.9	---	6.5	7.0	---
Great Lakes GL-552 (2X)	33.0	28.4	---	20.9	24.4	---	6.9	6.8	---
Andersons SSM (2X)	32.7	---	---	27.2	---	---	8.9	---	---
Migro M-2022X (2X)	32.6	28.7	---	19.3	23.3	---	6.3	6.5	---
Super Crost 2396 (2X)	32.3	---	---	22.7	---	---	7.4	---	---
Renk RK66 (2X)	32.3	27.4	26.9	21.1	25.2	22.8	6.8	6.7	6.0
DeKalb XL32a (2X)	32.1	---	---	24.5	---	---	7.8	---	---
Michigan 5922 (2X)	32.0	28.3	---	27.2	28.1	---	8.7	7.9	---
Cargill Exp. 181001 (2X)	32.0	---	---	24.7	---	---	7.9	---	---
Kaltenberg KX68 (2X)	31.9	---	---	23.1	---	---	7.4	---	---
Kaltenberg KX58 (2X)	31.7	---	---	22.5	---	---	7.1	---	---
Acco UC2901 (2X)	31.5	---	---	21.7	---	---	6.8	---	---
Asgrow RX2345 (2X)	30.9	27.1	27.3	20.7	23.2	22.3	6.4	6.2	6.0
Migro M-2018X (2X)	30.8	26.7	26.7	22.6	26.6	24.6	7.0	7.0	6.5
Migro HP23R (2X)	30.7	25.0	---	22.5	27.6	---	6.9	7.0	---
Pride 4461	30.7	---	---	19.5	---	---	6.0	---	---
Golden Harvest H-2500 (2X)	28.2	24.5	---	30.3	31.8	---	8.5	7.7	---
Average	36.7	32.0	32.0	19.1	21.7	19.6	6.8	6.6	6.1
Range	28.2	24.5	26.7	11.3	13.7	13.5	5.0	5.0	5.3
	to	to	to	to	to	to	to	to	to
	49.2	45.5	42.7	30.3	31.9	24.6	8.9	8.0	7.2
Least significant difference	2.8	1.9	1.4	1.7	1.2	0.9	0.8	0.6	0.5

(continued)

Table 12 (continued)

Planted Harvested Soil type	1980	1979	1978
	May 10 September 19	May 14 September 20	May 20 September 13
Linwood loam and Tawas muck	Linwood loam and Tawas muck	Linwood loam and Tawas muck	Bach sandy loam and Parkhill loam
Previous crop	Corn	Corn	Corn
Population	21,300	21,400	20,600
Rows	30"	30"	30"
Fertilizer	204-138-180	214-138-180	200-125-180
Soil test: pH	7.1	7.4	7.4
P	129 (very high)	220 (very high)	125 (high)
K	364 (very high)	366 (very high)	415 (very high)

Farm Cooperator: Charles Cork, Peck
County Extension Director: Rex Sieting, Sandusky

Table 13

NORTH CENTRAL MICHIGAN
Saginaw County Trial
Zone 3
One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	yr.	yr.	1980	yr.	yr.
	Seneca 149 (3X)	20.5	---	---	90.1	---	---	1.4	---
Seneca PC14 (2X)	20.6	---	---	95.3	---	---	7.5	---	---
Michigan 333-3X (3X)	20.6	20	20	129.0	119	117	2.5	10	7
Pioneer 3950 (MSX)	20.7	20	---	121.8	104	---	2.1	11	---
Wolverine W132 (2X)	21.2	---	---	136.2	---	---	2.1	---	---
DeKalb XL14aa (2X)	21.2	---	---	123.1	---	---	2.1	---	---
Migro HP16 (2X)	21.3	21	---	135.2	118	---	2.9	8	---
Migro M-0101 (2X)	21.4	---	---	140.3	---	---	2.8	---	---
Warwick W844 (Sp.)	21.4	20	---	95.3	92	---	9.2	16	---
Funk G-4256 (3X)	21.5	---	---	103.2	---	---	1.4	---	---
Funk G-4141A (MSX)	21.5	21	---	136.5	127	---	0.7	10	---
Amcorn Exp. 4 (2X)	21.7	---	---	133.7	---	---	0.0	---	---
Andersons SSA (2X)	21.9	22	21	129.9	125	121	3.0	9	7
Michigan 3102 (2X)	21.9	22	21	136.9	129	127	4.5	13	9
Sohigro 22 (2X)	21.9	21	21	112.8	106	113	0.7	14	11
Pioneer 3901 (2X)	22.1	21	21	142.9	131	126	0.7	6	4
Super Crost 1700 (MSX)	22.2	---	---	104.6	---	---	2.1	---	---
Trojan TXS94 (2X)	22.2	---	---	128.2	---	---	2.9	---	---
Seneca 140 (3X)	22.3	---	---	79.1	---	---	22.8	---	---
Warwick W966 (Sp.)	22.4	---	---	131.5	---	---	2.3	---	---
Dairyland DX1002 (2X)	22.5	22	21	104.1	99	96	2.8	17	13
Hyland HL-2442 (2X)	22.5	21	---	127.2	119	---	4.8	10	---
Dairyland DX1003 (2X)	22.5	---	---	146.1	---	---	0.0	---	---
Asgrow RX511 (2X)	22.5	---	---	141.8	---	---	3.2	---	---
Asgrow RX40 (2X)	22.6	---	---	141.6	---	---	1.4	---	---
Kaltenberg KX54 (2X)	22.7	23	---	114.6	123	---	3.5	8	---
Jacques JX97 (2X)	22.7	---	---	126.8	---	---	0.0	---	---
Pride R319 (2X)	22.8	---	---	146.5	---	---	0.7	---	---
Michigan 407-2X (2X)	22.8	23	22	146.1	139	133	2.2	14	10
DeKalb XL13 (2X)	23.3	22	---	129.3	122	---	3.6	22	---
Blaney B401 (2X)	23.3	22	22	112.3	116	117	0.0	12	9
McKenzie 901 (3X)	23.3	22	---	134.5	129	---	11.0	17	---
Garno S-90 (2X)	23.6	22	---	131.1	124	---	1.4	6	---
Hyland HL-2448 (2X)	23.6	---	---	144.5	---	---	2.1	---	---
Payco SX637 (2X)	23.8	23	---	142.5	135	---	0.0	8	---
ADI 232 (2X)	23.8	22	21	131.2	123	117	2.1	10	7
Sohigro Exp. 290 (2X)	23.8	---	---	140.1	---	---	2.1	---	---
Super Crost 1950 (MSX)	23.8	22	22	132.8	131	123	0.0	12	9
Gutwein 2140 (2X)	23.9	23	22	148.4	138	132	2.1	7	5
Amcorn ZX5500 (2X)	23.9	---	---	141.8	---	---	0.0	---	---
Great Lakes GL-422 (2X)	23.9	---	---	136.4	---	---	0.0	---	---
Golden Harvest H-2373 (2X)	24.0	23	23	124.4	111	119	1.4	22	15
Garno S-95Y (2X)	24.0	---	---	154.0	---	---	1.4	---	---
Payco Exp. SX620 (2X)	24.1	---	---	132.5	---	---	0.0	---	---
Voris X391 (2X)	24.1	---	---	146.4	---	---	0.7	---	---

(continued)

Table 14 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Payco SX680 (2X)	23.6	--	--	110.9	---	---	20.3	--	--
*Garno S-95Y (2X)	23.6	--	--	134.6	---	---	15.4	--	--
Funk G-4224 (MSX)	23.6	25	23	94.7	101	99	20.5	10	8
Pride 2259 (2X)	23.6	25	--	87.8	106	---	27.7	14	--
*Michigan 407-2X (2X)	23.6	25	23	127.9	127	127	15.1	9	7
Voris X401 (2X)	23.7	--	--	118.4	---	---	11.3	--	--
ADI 232 (2X)	23.7	--	--	95.6	---	---	35.4	--	--
Super Crost 1950 (MSX)	23.7	24	23	120.3	116	117	22.0	13	9
*Great Lakes GL-455 (2X)	23.7	--	--	139.1	---	---	30.0	--	--
Cargill 832 (2X)	23.8	24	23	122.0	114	111	19.1	10	8
Garno S-94 (2X)	23.9	--	--	110.0	---	---	16.8	--	--
Blaney B605-wx (2X)	23.9	26	25	119.5	128	126	17.2	9	7
Amcorn PSX7300 (2X)	23.9	26	26	119.5	114	115	15.6	8	5
DeKalb XL25a (2X)	24.1	--	--	109.5	---	---	25.9	--	--
*Leader SX480A (2X)	24.1	--	--	129.8	---	---	36.6	--	--
P-A-G SX189 (2X)	24.2	25	24	114.0	105	112	10.9	5	4
Hyland HL-2440 (2X)	24.3	--	--	101.9	---	---	21.1	--	--
*Dairyland DX1003 (2X)	24.4	--	--	132.3	---	---	10.0	--	--
Gutwein 2140 (2X)	24.5	26	24	105.2	99	111	32.9	16	11
Great Lakes GL-511 (2X)	24.7	--	--	112.3	---	---	23.5	--	--
Voris V2372 (2X)	24.7	26	24	122.2	124	124	32.6	18	13
Migro HP20 (2X)	24.7	25	--	111.6	119	---	5.6	3	--
Northrup King PX449 (3X)	24.8	--	--	111.0	---	---	18.2	--	--
Renk R146 (3X)	24.9	--	--	112.7	---	---	11.6	--	--
Northrup King PX59 (2X)	24.9	--	--	119.5	---	---	33.3	--	--
Blaney B507 (2X)	25.0	--	--	113.5	---	---	20.4	--	--
Super Crost 2350 (2X)	25.1	26	25	119.1	119	120	8.1	4	3
Super Crost 2396 (2X)	25.1	--	--	117.1	---	---	8.6	--	--
Pioneer X6459 (MSX)	25.1	--	--	122.3	---	---	16.7	--	--
*Cargill Exp. 181001 (2X)	25.3	--	--	146.5	---	---	11.3	--	--
*Funk G-4315 (MSX)	25.4	--	--	125.3	---	---	7.6	--	--
*Wolverine W168 (2X)	25.4	--	--	124.5	---	---	27.3	--	--
Golden Harvest H-2373 (2X)	25.4	26	24	101.8	98	100	6.3	4	2
*Northrup King PX39 (2X)	25.4	--	--	132.2	---	---	5.6	--	--
*Great Lakes GL-477 (2X)	25.4	--	--	139.1	---	---	12.2	--	--
*Andersons SSM (2X)	25.5	--	--	138.7	---	---	19.0	--	--
Golden Harvest H-2445 (MSX)	25.6	28	27	113.9	127	127	7.9	4	3
*Kaltenberg KX58 (2X)	25.8	25	--	128.1	124	---	30.6	16	--
DeKalb XL23 (2X)	25.8	27	--	118.7	122	---	27.3	14	--
Jacquets JX122A (2X)	25.9	--	--	105.6	---	---	26.1	--	--
*Kaltenberg KX54 (2X)	26.0	27	--	129.3	128	---	13.7	8	--
*DeKalb XL31 (2X)	26.0	--	--	150.1	---	---	11.7	--	--
*Wolverine W174A (2X)	26.0	28	--	134.9	134	---	10.3	5	--
*Golden Harvest H-2448 (2X)	26.2	29	--	138.6	135	---	8.0	4	--
*Payco SX756 (2X)	26.2	--	--	136.2	---	---	13.0	--	--
*Pride 4488 (2X)	26.2	--	--	146.0	---	---	5.3	--	--
*DeKalb XL30a (2X)	26.3	27	--	126.6	131	---	5.6	3	--
*Migro M-2022X (2X)	26.3	27	26	124.9	118	119	11.0	6	4
*Michigan 5922 (2X)	26.3	28	--	137.3	138	---	15.8	8	--
Renk RK66 (2X)	26.3	--	--	115.8	---	---	12.7	--	--
*Leader SX510 (2X)	26.4	--	--	138.5	---	---	5.4	--	--
*Migro HP23R (2X)	26.4	28	--	125.7	123	---	7.8	4	--
ADI 306 (2X)	26.4	--	--	107.8	---	---	38.9	--	--
Great Lakes GL-552 (2X)	26.6	--	--	116.9	---	---	15.3	--	--
Kaltenberg KX61 (2X)	26.6	--	--	116.6	---	---	7.1	--	--
Voris V2422 (2X)	26.7	28	28	115.8	120	124	20.1	10	8
Kaltenberg KX68 (2X)	26.8	--	--	112.5	---	---	7.6	--	--
Super Crost 79028 (2X)	26.9	--	--	103.9	---	---	12.9	--	--
*O's Gold Exp. 6880 (2X)	26.9	--	--	145.3	---	---	13.6	--	--
DeKalb Exp. 1112 (2X)	27.1	--	--	123.9	---	---	17.6	--	--
Acco UC3751 (2X)	27.3	--	--	113.2	---	---	7.8	--	--
*Voris V2411 (2X)	27.3	--	--	125.4	---	---	11.9	--	--
Acco UC3002 (2X)	27.5	28	--	119.2	118	---	12.7	6	--
*Blaney B606E-wx (2X)	27.5	28	28	132.7	132	129	21.5	11	7
*Sohigro 39 (2X)	27.7	29	27	129.4	129	129	6.1	3	2
*Golden Harvest XS-582 (2X)	27.7	--	--	129.4	---	---	15.9	--	--
Migro M-2018X (2X)	27.8	30	28	122.8	126	122	8.6	4	3
Dairyland DX1008 (2X)	28.2	--	--	111.9	---	---	31.0	--	--
*ADI 315 (2X)	29.1	30	29	137.6	131	132	5.7	3	2
*Golden Harvest H-2500 (2X)	31.0	33	32	139.8	128	124	19.4	10	7
Average	24.3	25	24	111.6	113	114	20.9	10	7
Range	19.6 to 31.0	21 to 33	20 to 32	60.8 to 150.1	75 to 138	78 to 132	4.8 to 71.2	3 to 21	2 to 14

(continued)

Table 14 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Least significant difference	1.6	1.0	0.7	12.5	9	5	--	--	--

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 7	May 15	April 27
Harvested	November 7	November 9	November 1
Soil type	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
Previous crop	Corn	Corn	Corn
Population	21,200	21,000	20,800
Rows	30"	30"	30"
Fertilizer	188-95-195	195-95-204	160-105-208
Soil test: pH	7.2	7.7	7.2
P	149 (very high)	82 (high)	47 (medium)
K	440 (very high)	228 (high)	208 (medium)

Farm Cooperator: William McCrea, Bad Axe

Extension Livestock Agent: Lee Warschefskey, Bad Axe

Table 15

NORTH CENTRAL MICHIGAN Zone 3
Huron County Trial - Silage
One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	% Dry Matter			Tons per acre					
	1980	2 yr.	3 yr.	Green weight			Dry weight		
Seneca 149 (3X)	56.4	---	---	9.6	---	---	5.4	---	---
Seneca PC14 (2X)	53.0	---	---	9.3	---	---	4.9	---	---
Cargill 810 (2X)	52.5	49.9	50.0	12.1	11.6	11.3	6.4	5.8	5.6
Funk G-4065 (MSX)	51.4	---	---	8.9	---	---	4.6	---	---
Funk G-4042 (MSX)	51.3	---	---	9.7	---	---	4.9	---	---
Payco Exp. SX620 (2X)	48.7	---	---	12.5	---	---	6.1	---	---
Michigan 333-3X (3X)	48.7	44.8	46.8	12.8	13.7	13.4	6.2	6.1	6.2
Warwick W844 (Sp.)	48.7	---	---	10.8	---	---	5.3	---	---
Dairyland DX1085 (2X)	48.3	---	---	10.5	---	---	5.1	---	---
Migro M-0101 (2X)	47.8	44.2	46.0	13.6	14.2	14.4	6.5	6.2	6.6
Pioneer 3958 (2X)	47.6	45.5	48.1	11.8	12.4	12.3	5.6	5.6	5.9
Dairyland DX1096 (2X)	47.2	---	---	12.5	---	---	5.9	---	---
DeKalb XL13 (2X)	45.9	41.5	---	14.7	15.2	---	6.7	6.3	---
Michigan 3102 (2X)	45.7	42.2	44.3	14.9	15.4	15.2	6.8	6.5	6.7
Great Lakes GL-422 (2X)	45.2	---	---	15.5	---	---	7.0	---	---
Golden Harvest H-2340 (2X)	45.2	42.6	43.3	14.2	13.5	13.6	6.4	5.7	5.9
Garno S-90 (2X)	45.1	40.2	42.4	15.2	17.2	16.8	6.8	6.8	7.0
Migro HP16 (2X)	45.1	43.1	---	14.4	14.9	---	6.3	6.3	---
Seneca 140 (3X)	45.1	---	---	11.1	---	---	5.0	---	---
Garno S-85X (2X)	45.0	---	---	12.4	---	---	5.6	---	---
ADI 232 (2X)	44.0	---	---	13.0	---	---	5.7	---	---
Gutwein 2085 (2X)	43.4	---	---	12.2	---	---	5.3	---	---
Funk G-4143 (MSX)	43.4	---	---	12.5	---	---	5.5	---	---
Northrup King PX449 (3X)	43.2	---	---	14.7	---	---	6.4	---	---
Andersons SSA (2X)	42.4	40.8	44.2	15.3	15.8	14.9	6.5	6.4	6.5
Pride R319 (3X)	42.0	38.9	---	16.6	16.2	---	7.0	6.3	---
Super Crost 1700 (MSX)	42.0	---	---	14.0	---	---	5.9	---	---
Gutwein 3060 (3X)	42.0	---	---	15.1	---	---	6.3	---	---
Hyland HL-2442 (2X)	41.3	---	---	15.1	---	---	6.2	---	---
P-A-G SX189 (2X)	41.1	36.2	39.0	16.5	18.1	17.5	6.8	6.5	6.7
Funk G-4085 (3X)	41.1	43.1	---	12.8	11.9	---	5.3	5.1	---
Funk G-4141A (MSX)	40.7	39.1	---	15.3	16.8	---	6.2	6.5	---
Pioneer 3950 (MSX)	40.6	43.8	---	15.0	13.8	---	6.1	6.0	---
O's Gold SX1005 (2X)	40.5	---	---	15.7	---	---	6.4	---	---
P-A-G SX177 (2X)	40.4	37.4	40.7	16.7	15.6	14.9	6.7	5.8	6.0
Pride 2259 (2X)	39.6	36.8	---	14.8	16.2	---	5.9	5.9	---
Cargill 838 (2X)	39.6	37.2	39.5	15.4	17.1	16.5	6.1	6.3	6.4
Payco SX680 (2X)	39.2	---	---	13.9	---	---	5.4	---	---
Funk G-4224 (MSX)	38.5	36.7	40.4	17.7	19.1	17.0	6.8	7.0	6.7
Michigan 407-2X (2X)	38.3	35.9	38.8	18.0	18.2	17.4	6.9	6.5	6.7
Pioneer 3901 (2X)	38.0	36.6	40.7	18.8	19.3	17.7	7.2	7.1	7.1
Great Lakes GL-455 (2X)	37.8	---	---	17.8	---	---	6.7	---	---
Payco SX637 (2X)	37.8	36.1	---	18.5	18.3	---	7.0	6.6	---
Wolverine W168 (2X)	37.6	---	---	19.5	---	---	7.3	---	---
Renk RK6 (2X)	37.0	---	---	15.4	---	---	5.7	---	---

(continued)

Table 15 (continued)

Hybrid (Brand-Variety)	% Dry Matter		Tons per acre						
	1980	Green weight		Dry weight			2	3	
		2 yr.	3 yr.	1980	2 yr.	3 yr.			1980
Wolverine W166 (2X)	36.9	33.8	35.7	18.6	18.9	18.9	6.9	6.4	6.8
Cargill 832 (2X)	36.8	36.3	39.7	15.0	14.5	14.2	5.5	5.2	5.6
Amcorn ZX5500 (2X)	36.6	---	---	17.5	---	---	6.4	---	---
Funk G-4256 (3X)	36.5	---	---	16.7	---	---	6.1	---	---
ADI 195 (2X)	36.5	38.6	40.4	15.1	14.6	13.7	5.5	5.6	5.5
Voris V2372 (2X)	36.5	35.3	38.2	18.4	19.1	17.9	6.7	6.7	6.8
Jacques JX97 (2X)	36.2	---	---	18.4	---	---	6.6	---	---
Trojan T930 (2X)	36.2	---	---	16.0	---	---	5.3	---	---
Cargill Exp. 263047 (2X)	36.2	---	---	15.4	---	---	5.7	---	---
Great Lakes GL-477 (2X)	36.1	---	---	23.5	---	---	8.5	---	---
Blaney B507 (2X)	36.1	---	---	20.1	---	---	7.3	---	---
Pioneer X6459 (MSX)	36.1	---	---	18.6	---	---	6.7	---	---
Hyland HL-2440 (2X)	36.0	---	---	15.9	---	---	5.7	---	---
P-A-G SX67 (2X)	35.8	---	---	16.2	---	---	5.8	---	---
Gutwein 2140 (2X)	35.8	33.4	37.8	23.2	22.3	20.4	8.3	7.5	7.6
O's Gold Exp. 6880 (2X)	35.4	---	---	20.5	---	---	7.3	---	---
Garno S-94 (2X)	35.3	---	---	19.1	---	---	6.7	---	---
DeKalb XL314 (3X)	35.3	---	---	19.7	---	---	6.9	---	---
Dairyland DX1008 (2X)	35.2	---	---	19.2	---	---	6.8	---	---
Leader SX480A (2X)	35.1	---	---	20.5	---	---	7.2	---	---
P-A-G SX181 (2X)	35.1	---	---	16.5	---	---	5.7	---	---
Dairyland DX1003 (2X)	35.0	---	---	18.4	---	---	6.4	---	---
Golden Harvest SX-582 (2X)	34.9	---	---	24.6	---	---	8.6	---	---
Kaltenberg KX54 (2X)	34.7	33.0	---	19.4	20.0	---	6.7	6.5	---
Super Crost 2396 (2X)	34.6	---	---	16.8	---	---	5.8	---	---
Kaltenberg KX61 (2X)	34.5	---	---	21.3	---	---	7.4	---	---
Great Lakes GL-511 (2X)	34.5	---	---	20.8	---	---	7.2	---	---
Kaltenberg KX58 (2X)	34.5	32.1	---	23.6	23.4	---	8.1	7.5	---
Cargill Exp. 181001 (2X)	34.5	---	---	22.8	---	---	7.9	---	---
Dairyland DX1004 (2X)	34.2	---	---	21.7	---	---	7.4	---	---
Migro HP20 (2X)	34.2	33.6	---	18.0	16.6	---	6.2	5.6	---
Renk R146 (3X)	34.2	---	---	19.3	---	---	6.6	---	---
DeKalb XL25a (2X)	34.2	---	---	18.7	---	---	6.4	---	---
Pioneer 3906 (2X)	34.1	---	---	17.4	---	---	5.9	---	---
Blaney B606E-wx (2X)	34.1	32.6	35.6	22.9	22.4	20.4	7.8	7.3	7.1
Andersons SSM (2X)	34.0	---	---	20.6	---	---	7.0	---	---
Renk RK18 (2X)	33.9	---	---	16.8	---	---	5.7	---	---
Jacques JX122A (2X)	33.8	---	---	17.8	---	---	6.0	---	---
Golden Harvest H-2373 (2X)	33.6	33.2	37.8	17.5	18.6	17.3	5.9	6.1	6.4
Super Crost 1950 (MSX)	33.6	33.9	38.1	18.4	17.9	17.4	6.2	6.1	6.6
Funk G-4315 (MSX)	33.5	---	---	19.1	---	---	6.4	---	---
Garno S-95Y (2X)	33.5	---	---	20.6	---	---	6.9	---	---
Acco UC3002 (2X)	33.5	32.0	---	20.3	20.0	---	6.8	6.4	---
Super Crost 2350 (2X)	33.3	34.0	37.2	17.5	18.9	18.4	5.8	6.4	6.8
Pride 4488 (2X)	33.3	---	---	20.6	---	---	6.9	---	---
Leader SX510 (2X)	33.3	---	---	21.1	---	---	7.0	---	---
Renk RK66 (2X)	33.3	---	---	22.5	---	---	7.5	---	---
Voris V2411 (2X)	33.2	---	---	19.5	---	---	6.5	---	---
DeKalb XL23 (2X)	33.2	33.3	---	17.9	18.2	---	5.9	6.0	---
Amcorn PSX7300 (2X)	33.0	31.1	33.1	20.4	19.7	18.8	6.7	6.1	6.2
Super Crost 79028 (2X)	33.0	---	---	18.4	---	---	6.1	---	---
ADI 306 (2X)	32.7	---	---	18.3	---	---	6.0	---	---
Wolverine W174A (2X)	32.7	30.8	---	23.3	22.2	---	7.6	6.8	---
Michigan 5922 (2X)	32.6	31.6	---	25.3	23.7	---	8.2	7.5	---
Northrup King PX39 (2X)	32.4	---	---	23.2	---	---	7.5	---	---
Migro M-2018X (2X)	32.3	29.9	32.9	23.9	22.3	20.7	7.7	6.7	6.7
Great Lakes GL-552 (2X)	32.3	---	---	22.9	---	---	7.4	---	---
Payco SX756 (2X)	32.2	---	---	24.0	---	---	7.7	---	---
Voris X401 (2X)	31.9	---	---	19.1	---	---	6.1	---	---
Blaney B605-wx (2X)	31.8	32.0	35.5	19.4	20.3	19.4	6.2	6.5	6.8
Northrup King PX59 (2X)	31.3	---	---	23.8	---	---	7.4	---	---
Migro M-2022X (2X)	31.3	31.0	34.5	24.3	22.0	20.0	7.6	6.7	6.7
Migro HP23R (2X)	31.2	30.2	---	24.4	22.2	---	7.6	6.7	---
Kaltenberg KX68 (2X)	30.9	---	---	19.7	---	---	6.1	---	---
Jacques JX147 (2X)	30.7	---	---	18.7	---	---	5.8	---	---
DeKalb XL30a (2X)	30.5	30.3	---	21.2	20.2	---	6.5	6.1	---
DeKalb EX1112 (2X)	30.5	---	---	19.7	---	---	6.0	---	---
Sohigro 39 (2X)	30.3	28.4	30.5	21.2	21.6	20.1	6.4	6.1	6.0
Golden Harvest H-2445 (MSX)	29.6	29.0	32.6	22.8	21.4	20.3	6.8	6.2	6.5
DeKalb XL31 (2X)	29.5	---	---	19.1	---	---	5.6	---	---
Golden Harvest H-2448 (2X)	29.4	29.1	---	28.2	25.4	---	8.3	7.4	---
Acco UC3751 (2X)	29.4	---	---	23.5	---	---	6.9	---	---
Voris V2422 (2X)	29.3	31.2	32.8	20.5	20.8	20.4	6.9	6.5	6.7
Golden Harvest H-2500 (2X)	29.1	27.6	28.9	26.6	24.8	23.2	7.7	6.8	6.6
ADI 315 (2X)	28.9	27.4	30.0	26.5	23.8	23.2	7.6	6.5	6.9

(continued)

Table 15 (continued)

Hybrid (Brand-Variety)	% Dry Matter		Tons per acre						
	1980	Green weight		Dry weight			2	3	
		2 yr.	3 yr.	1980	2 yr.	3 yr.			1980
Average	37.5	35.8	38.8	18.1	18.3	17.3	6.6	6.3	6.5
Range	28.9	27.4	28.9	8.9	11.6	11.3	4.6	5.1	5.5
	to	to	to	to	to	to	to	to	to
	56.4	49.9	50.0	28.2	25.4	23.2	8.6	7.5	7.6
Least significant difference	3.0	1.8	1.3	1.8	1.4	1.1	0.8	0.6	0.5

	1980	1979	1978
Planted	May 7	May 15	April 27
Harvested	September 19	September 20	September 13
Soil type	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
Previous crop	Corn	Corn	Corn
Population	21,400	21,300	20,100
Rows	30"	30"	30"
Fertilizer	188-95-195	195-95-204	160-105-208
Soil test: pH	7.2	7.7	7.2
P	149 (very high)	82 (high)	47 (medium)
K	440 (very high)	228 (high)	208 (medium)

Farm Cooperator: William McCrea, Bad Axe

Extension livestock agent: Lee Warschefskey, Bad Axe

Table 16

NORTH CENTRAL MICHIGAN
Isabella County Trial
One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Moisture		Bushels per acre			%Stalk lodging			
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Great Lakes GL-352 (Sp.)	22.2	22	---	97.8	84	---	10.4	7	---
Dairyland DX1085 (2X)	22.3	---	---	90.3	---	---	4.9	---	---
Michigan 280 (4X)	22.5	22	21	92.1	88	89	9.0	7	6
McKenzie 790 (MSX)	22.6	---	---	96.6	---	---	8.9	---	---
Sohigro 15 (2X)	22.7	---	---	87.4	---	---	3.5	---	---
Pioneer 3950 (MSX)	23.0	23	---	120.7	100	---	1.4	1	---
Pride 2206 (2X)	23.3	23	---	112.8	95	---	4.2	5	---
Dairyland DX1090 (2X)	23.7	23	22	103.7	86	84	5.6	5	3
Michigan 333-3X (3X)	23.7	23	22	121.2	101	104	2.1	3	3
Migro M-0101 (2X)	23.7	23	23	125.2	100	109	1.4	3	2
Northrup King PX22 (2X)	23.7	---	---	124.5	---	---	6.6	---	---
Wolverine W132 (2X)	23.9	---	---	122.2	---	---	1.4	---	---
Pioneer 3958 (2X)	24.2	23	---	108.4	90	---	4.2	3	---
O's Gold SX1005 (2X)	24.2	---	---	123.0	---	---	8.1	---	---
Migro HPI6 (2X)	24.4	---	---	122.1	---	---	2.8	---	---
McKenzie 901 (3X)	24.5	25	---	117.3	99	---	2.9	4	---
Super Crost 1700 (MSX)	24.8	---	---	112.8	---	---	5.1	---	---
Funk G-4141A (MSX)	24.9	24	---	101.2	83	---	12.3	7	---
Funk G-4085 (3X)	25.0	24	---	94.4	82	---	5.0	6	---
Funk G-4143 (MSX)	25.0	---	---	109.8	---	---	16.8	---	---
Northrup King PX449 (3X)	25.3	---	---	113.0	---	---	3.5	---	---
Trojan TXS94 (2X)	25.4	25	23	102.6	95	98	2.8	2	1
Northrup King PX485 (3X)	25.4	---	---	136.2	---	---	3.6	---	---
Amcorn Exp. 4 (2X)	25.5	---	---	130.2	---	---	9.4	---	---
DeKalb XL14aa (2X)	25.6	---	---	118.2	---	---	3.5	---	---
Pride R319 (3X)	25.7	25	---	132.4	105	---	2.8	2	---
Michigan 3102 (2X)	25.7	25	24	129.5	108	111	2.1	3	2
Garno S-94 (2X)	25.7	---	---	128.9	---	---	3.5	---	---
Funk G-4256 (3X)	25.8	---	---	106.8	---	---	10.9	---	---
Great Lakes GL-455 (2X)	25.8	---	---	136.4	---	---	6.1	---	---
*Jacques JX97 (2X)	25.8	---	---	144.2	---	---	4.4	---	---
Dairyland DX1004 (2X)	25.8	---	---	131.9	---	---	8.2	---	---
*Pioneer 3901 (2X)	25.8	25	24	145.8	118	120	1.4	2	2
*Great Lakes GL-422 (2X)	25.9	---	---	137.6	---	---	2.9	---	---
Garno S-90 (2X)	26.2	25	24	139.0	112	119	1.4	2	2
Funk G-4224 (MSX)	26.3	26	25	124.4	99	105	2.1	3	2
Warwick W966 (2X)	26.3	---	---	128.1	---	---	6.2	---	---
Michigan 407-2X (2X)	26.4	26	25	133.1	110	111	5.0	4	3
Dairyland DX1003 (2X)	26.6	---	---	132.9	---	---	3.0	---	---
Migro HP20 (2X)	26.6	27	---	111.4	98	---	0.0	1	---

(continued)

Table 16 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
	Sohigro 33 (2X)	26.8	--	--	116.8	---	---	2.7	-
Dairyland DX1096 (2X)	26.8	--	--	127.9	---	---	7.9	-	-
Super Crost 1950 (MSX)	27.0	--	--	124.0	---	---	3.0	-	-
*Jacques JX147 (2X)	27.2	--	--	144.9	---	---	1.4	-	-
*Amcorn ZX5500 (2X)	27.3	--	--	141.6	---	---	2.2	-	-
Blaney B507 (2X)	27.5	27	--	130.4	95	---	3.6	2	-
Voris V2381 (2X)	27.5	26	--	129.6	107	---	2.9	2	-
Blaney B506 (2X)	27.5	27	25	135.3	108	110	2.9	3	3
Sohigro Exp. 290 (2X)	27.5	--	--	131.0	---	---	5.6	-	-
*Great Lakes GL-477 (2X)	27.6	--	--	159.3	---	---	4.4	-	-
Great Lakes GL-511 (2X)	28.0	--	--	127.2	---	---	7.0	-	-
Amcorn PSX7300 (2X)	28.1	27	--	123.1	105	---	9.6	7	-
*Vorix X391 (2X)	28.2	--	--	138.7	---	---	2.7	-	-
*McKenzie 987 (2X)	28.2	--	--	140.0	---	---	4.7	-	-
*Wolverine W168 (2X)	28.2	--	--	142.9	---	---	1.4	-	-
Migro M-2022X (2X)	28.3	28	--	136.3	104	---	3.5	4	-
Jacques JX166 (2X)	29.0	--	--	132.6	---	---	7.9	-	-
Pioneer 3780 (2X)	29.0	28	26	130.0	104	113	4.4	4	4
*O's Gold Exp. 6880 (2X)	29.3	--	--	137.6	---	---	1.4	-	-
*Vorix V2411 (2X)	29.8	--	--	143.3	---	---	2.8	-	-
*Michigan 5922 (2X)	29.8	30	--	151.0	115	---	0.7	0	-
*Blaney B606 (2X)	29.8	--	--	157.8	---	---	1.5	-	-
Migro HP23R (2X)	30.0	30	--	136.2	105	---	1.5	1	-
*Migro M-2018X (2X)	30.5	31	29	149.5	112	108	1.3	1	1
DeKalb XL32A (2X)	30.6	30	--	134.8	115	---	1.4	1	-

Table 16 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
	Average	26.2	26	24	125.6	101	106	4.2	3
Range	22.2 to 30.6	22 to 31	21 to 29	87.4 to 159.3	82 to 118	84 to 120	0.0 to 16.8	0 to 7	1 to 6
Least significant difference	1.5	1.0	0.7	11.9	7	5	-	-	-

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 21	May 21	May 10
Harvested	November 10	November 19	November 7
Soil type	Parkhill loam and Metamora sandy loam	Parkhill loam and Metamora sandy loam	Parkhill loam and Metamora sandy loam
Previous crop	Corn	Corn	Corn
Population	21,100	20,600	18,400
Rows	38"	38"	38"
Fertilizer	140-80-130	146-156-152	133-77-140
Soil test: pH	7.1	7.4	---
P	72 (high)	80 (high)	---
K	114 (low)	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 - 1980, 1979, 1978

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels per acre				% Stalk lodging							
	1980	2 yrs.	3 yrs.	1980		3 years		1980		3 years					
		Yrs.	Yrs.	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig				
Blaney B100E (2X)	21.1	--	--	73.7	66.8	---	---	18.6	16.0	--	--	--	--		
Golden Harvest XS-824 (2X)	21.3	--	--	86.6	81.3	---	---	21.2	31.4	--	--	--	--		
Great Lakes GL-352 (Sp.)	21.5	--	--	74.5	65.1	---	---	22.3	21.1	--	--	--	--		
Blaney B101 (2X)	21.7	--	--	76.0	69.3	---	---	25.5	18.2	--	--	--	--		
Jacques JX44 (2X)	22.1	--	--	82.4	75.9	---	---	21.8	28.6	--	--	--	--		
Michigan 333-3X (3X)	22.2	23	22	106.6	98.1	104	81	114	83	16.1	19.4	13	15	10	11
Michigan 280 (4X)	22.4	23	21	93.3	91.7	92	72	92	71	20.5	20.0	19	17	16	15
Dairyland DX1095 (2X)	22.4	23	--	91.4	80.4	92	66	---	---	25.5	18.8	20	13	--	--
Migro M-0101 (2X)	22.8	23	22	114.8	104.5	108	84	118	83	12.0	12.2	11	11	9	7
Pioneer 3950 (MSX)	22.8	23	--	112.5	103.7	112	82	---	---	7.8	9.9	11	8	--	--
Warwick W901 (2X)	22.8	--	--	107.0	91.5	---	---	---	---	16.7	23.4	--	--	--	--
Migro HP16 (2X)	23.1	24	--	99.5	89.8	102	75	---	---	13.3	20.1	15	16	--	--
+Amcorn Exp. 4 (2X)	23.1	--	--	132.7	129.7	---	---	---	---	12.0	8.9	--	--	--	--
*+Pioneer 3901 (2X)	23.4	24	23	152.2	138.4	144	117	151	111	8.3	8.4	8	7	5	5
*+Vorix X401 (2X)	23.4	--	--	147.7	130.3	---	---	---	---	19.9	19.0	--	--	--	--
*+Michigan 3102 (2X)	23.4	24	23	144.4	138.0	128	104	146	104	14.5	16.3	12	12	9	9
*+Hyland HL-2448 (2X)	23.4	--	--	151.1	132.1	---	---	---	---	4.3	5.0	--	--	--	--
Super Crost 1950 (MSX)	23.4	24	23	112.4	107.1	111	82	130	87	21.6	18.4	18	17	15	13
Super Crost 1700 (MSX)	23.4	--	--	83.6	77.6	---	---	---	---	9.8	9.2	--	--	--	--
Great Lakes GL-422 (2X)	23.4	--	--	129.9	116.9	---	---	---	---	10.1	15.3	--	--	--	--
Pioneer 3958 (2X)	23.5	24	23	101.3	97.6	105	85	112	87	5.1	14.9	7	11	6	8
+Dairyland DX1096 (2X)	23.5	--	--	137.5	133.1	---	---	---	---	11.1	11.1	--	--	--	--
Wolverine W126 (2X)	23.5	--	--	117.5	100.4	---	---	---	---	8.5	8.5	--	--	--	--
Custom CFSE2004 (2X)	23.7	--	--	136.9	117.8	---	---	---	---	7.1	10.3	--	--	--	--
Custom CFS1000 (2X)	23.7	26	24	98.4	88.3	113	84	119	82	28.8	25.2	17	14	14	11

Table 17 (continued)

Hybrid (Brand-Variety)	% Moisture				Bushels per acre				% Stalk lodging						
	1980	2	3	1980	2 years		3 years		1980		2 years		3 years		
		yrs.	yrs.	Irrig Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	
Wolverine W132 (2X)	23.7	--	--	79.8	76.7	---	---	---	---	32.6	33.6	--	--	--	--
Garno S-90 (2X)	23.8	24	23	124.1	119.7	124	106	130	101	17.3	14.9	16	12	10	8
*+Great Lakes GL-455 (2X)	23.9	--	--	152.5	133.5	---	---	---	---	19.4	23.2	--	--	--	--
*+Asgrow RX511 (2X)	24.2	--	--	146.7	128.1	---	---	---	---	32.6	33.4	--	--	--	--
Garno S-94 (2X)	24.2	--	--	128.6	119.1	---	---	---	---	10.6	12.2	--	--	--	--
+DeKalb XL14aa (2X)	24.3	--	--	130.4	130.7	---	---	---	---	11.9	6.0	--	--	--	--
Funk G-4256 (3X)	24.3	--	--	104.2	94.7	---	---	---	---	23.3	20.6	--	--	--	--
*+Jacques JX97 (2X)	24.3	--	--	140.2	134.3	---	---	---	---	10.4	8.9	--	--	--	--
ADI 232 (2X)	24.3	25	24	117.5	107.7	126	92	138	94	11.7	13.9	14	12	12	10
*+Amcorn ZX5500 (2X)	24.4	--	--	140.1	123.4	---	---	---	---	12.3	11.9	--	--	--	--
*+Wolverine W166 (2X)	24.6	--	--	141.2	133.6	---	---	---	---	5.8	10.8	--	--	--	--
Funk G-4224 (MSX)	24.6	25	24	109.9	102.6	110	81	120	81	20.4	22.1	13	16	12	12
*Golden Harvest XS715 (2X)	24.7	--	--	141.3	124.0	---	---	---	---	10.7	6.8	--	--	--	--
*+Michigan 407-2X (2X)	24.7	25	24	139.2	139.1	136	112	144	109	14.2	14.8	13	12	10	8
Great Lakes GL-511 (2X)	24.8	--	--	137.7	123.3	---	---	---	---	16.2	15.9	--	--	--	--
Amcorn PSX7300 (2X)	24.9	27	26	127.6	109.4	125	92	125	88	32.4	27.0	21	17	17	13
Dairyland DX1004 (2X)	24.9	--	--	132.4	121.9	---	---	---	---	21.4	19.3	--	--	--	--
*Jacques JX147	25.0	--	--	142.9	124.9	---	---	---	---	8.7	12.2	--	--	--	--
*+Great Lakes GL-477 (2X)	25.0	--	--	154.9	144.9	---	---	---	---	7.7	10.5	--	--	--	--
Migro HP20 (2X)	25.0	27	--	105.7	94.6	110	81	---	---	6.7	9.1	14	12	--	--
Pride 2206 (2X)	25.0	25	--	102.6	89.3	108	76	---	---	20.3	33.3	18	22	--	--
DeKalb XL15 (2X)	25.1	25	24	129.3	112.7	120	93	120	87	11.3	11.9	9	7	8	6
*+Super Crost 2350 (2X)	25.3	25	24	142.3	136.7	134	105	151	106	5.5	4.8	8	6	7	4
DeKalb XL31 (2X)	25.4	--	--	131.0	120.2	---	---	---	---	30.9	34.5	--	--	--	--
Hyland HL-2458 (2X)	25.4	--	--	122.5	109.8	---	---	---	---	7.3	10.6	--	--	--	--
Asgrow RX2345 (2X)	25.6	26	--	131.0	109.8	129	94	---	---	35.2	38.8	27	23	--	--
Dairyland DX1003 (2X)	25.7	--	--	126.4	120.7	---	---	---	---	7.6	9.7	--	--	--	--
Dairyland DX1099 (2X)	25.9	26	--	106.2	91.9	105	79	---	---	16.4	17.0	21	16	--	--
Voris V2441 (2X)	26.2	--	--	127.4	108.3	---	---	---	---	12.4	9.7	--	--	--	--
*+Pioneer 3780 (2X)	26.3	26	25	141.2	132.2	131	111	148	109	7.5	7.2	13	8	12	6
*+Blaney B507 (2X)	26.5	26	--	143.9	130.1	135	105	---	---	12.0	14.1	12	12	--	--
P-A-G SX181 (2X)	26.8	--	--	131.5	120.3	---	---	---	---	23.1	25.1	--	--	--	--
*+Migro HP23R (2X)	26.8	27	--	148.6	129.9	132	97	---	---	14.4	11.2	13	9	--	--
*+Pride 4488 (2X)	26.9	28	26	147.5	138.0	140	106	147	103	5.8	1.5	4	1	3	2
*+Blaney B606 (2X)	27.4	28	26	164.9	150.2	153	118	152	110	9.0	9.3	6	5	5	4
Voris V2411 (2X)	27.7	--	--	132.9	122.5	---	---	---	---	7.0	6.7	--	--	--	--
Super Crost 2396 (2X)	27.7	--	--	132.9	114.1	---	---	---	---	12.1	14.6	--	--	--	--
*+Michigan 5922 (2X)	27.8	30	--	167.8	156.5	144	119	---	---	0.7	2.9	1	2	--	--
*+ADI 323 (2X)	28.6	--	--	138.6	127.8	---	---	---	---	8.1	5.6	--	--	--	--
*+ADI 197 (2X)	28.6	29	29	138.8	127.8	124	92	142	94	18.3	10.1	14	8	10	5
DeKalb XL23 (2X)	28.8	28	--	135.5	122.0	128	98	---	---	14.5	12.9	9	9	--	--
Super Crost 79028 (2X)	28.8	--	--	134.8	119.7	---	---	---	---	12.4	8.8	--	--	--	--
ADI 306 (2X)	28.8	--	--	124.0	117.3	---	---	---	---	29.1	28.1	--	--	--	--
*+Migro M-2018X (2X)	29.0	29	27	155.8	140.8	143	113	156	110	5.3	8.6	5	5	4	4
Migro M-2022X (2X)	29.4	28	27	120.6	113.6	117	93	134	96	12.4	7.1	9	9	8	6
*+Golden Harvest H-2500 (2X)	30.8	--	--	164.0	147.8	---	---	---	---	4.1	7.9	--	--	--	--
Average	24.9	26	24	125.8	114.2	121	93	133	95	15.3	14.9	13	11	9	8
Range	21.1	23	21	73.7	65.1	92	66	92	71	0.7	1.5	1	1	3	2
	30.8	30	29	167.8	156.5	153	119	156	111	35.2	38.8	27	23	17	15

(continued)

Table 17 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre						% Stalk lodging					
	1980	2 yrs.	3 yrs.	1980		2 years		3 years		1980		2 years		3 years	
		yr.	yr.	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig
Least significant difference	1.5	1.0	0.7	13.2	12.6	9	7	6	5	-	-	-	-	-	-

*Significantly better than average yield, irrigated, in 1980.

+Significantly better than average yield, not irrigated, in 1980.

	1980	1979	1978
Planted	May 12	May 19	May 3
Harvested	November 11	November 19	November 9
Soil type	Montcalm-McBride sandy loams	Montcalm-McBride sandy loams	Montcalm-McBride sandy loams
Previous crop	Alfalfa	Alfalfa	Corn
Population	20,700	20,800	20,700
Rows	30"	30"	30"
Fertilizer	315-155-155	213-80-80	197-60-60
Irrigation	3 inches	6 inches	8 inches
Soil test: pH	6.9	5.4	6.7
P	528 (very high)	493 (very high)	362 (very high)
K	290 (high)	336 (very high)	188 (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 - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	yr.	yr.	1980	yr.	yr.
	Jacques JX44 (2X)	21.1	--	--	85.5	---	---	2.0	-
Pioneer 3950 (MSX)	21.1	23	--	89.4	99	---	3.5	2	-
Warwick W844 (Sp.)	21.1	--	--	85.4	---	---	7.4	-	-
Michigan 280 (4X)	21.2	22	22	92.5	91	90	8.5	9	6
Michigan 2443 (3X)	21.2	23	23	104.6	99	94	7.9	9	6
Great Lakes GL-352 (Sp.)	21.6	23	--	87.7	87	---	10.4	10	-
O's Gold SX845 (2X)	21.9	24	--	92.7	96	---	7.3	5	-
Great Lakes GL-283 (3X)	22.0	--	--	105.9	---	---	1.4	-	-
Pride 2259 (2X)	22.1	24	--	108.0	108	---	1.4	1	-
Funk G-4256 (3X)	22.5	--	--	93.3	---	---	4.4	-	-
Garno S-85X (2X)	22.6	--	--	118.7	---	---	4.5	-	-
DeKalb EX1112 (2X)	22.6	--	--	105.5	---	---	1.4	-	-
DeKalb XL13 (2X)	22.6	25	--	113.7	117	---	2.2	5	-
Migro M-0101 (2X)	22.7	24	24	101.9	104	103	4.2	3	2
Funk G-4141A (2X)	22.7	25	--	120.1	113	---	3.5	3	-
Blaney B302-wx (2X)	22.8	24	24	102.0	97	88	3.8	11	7
Michigan 333-3X (3X)	22.9	24	23	98.9	102	99	3.1	3	2
Jacques JX97 (2X)	22.9	--	--	120.5	---	---	2.2	-	-
Pioneer 3901 (2X)	23.0	24	25	113.7	119	115	0.7	2	1
Pioneer 3958 (2X)	23.0	25	25	95.3	97	98	4.2	4	3
*DeKalb XL14aa (2X)	23.2	--	--	125.6	---	---	2.0	-	-
Garno S-82E (2X)	23.4	--	--	96.6	---	---	1.4	-	-
O's Gold SX1005 (2X)	23.5	--	--	110.7	---	---	5.6	-	-
Funk G-4143 (MSX)	23.6	--	--	104.3	---	---	4.3	-	-
Migro HP16 (2X)	23.6	26	--	87.1	95	---	1.8	1	-
Garno S-90 (2X)	23.6	25	25	109.8	114	105	2.1	4	3
Great Lakes GL-422 (2X)	23.7	--	--	112.3	---	---	5.7	-	-
Michigan 3102 (2X)	23.7	25	25	118.0	114	107	4.4	4	3
*Blaney 8003 (2X)	23.8	--	--	123.0	---	---	4.1	-	-
Blaney B501A (2X)	23.9	25	26	120.3	120	113	4.7	4	3

(continued)

Table 18 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	yr.	yr.	1980	yr.	yr.
	Amcorn Exp. 4 (2X)	23.9	--	--	121.1	---	---	0.7	-
*Great Lakes GL-455 (2X)	24.0	--	--	135.5	---	---	5.7	-	-
*Michigan 407-2X (2X)	24.0	26	27	129.5	122	114	3.3	4	2
*DeKalb XL31 (2X)	24.0	--	--	127.2	---	---	2.1	-	-
*Pioneer 3780 (2X)	24.4	26	26	121.9	125	111	2.2	4	2
*DeKalb XL23 (2X)	24.4	--	--	123.0	---	---	5.5	-	-
Golden Harvest XS-715 (2X)	24.4	--	--	119.2	---	---	0.7	-	-
Golden Harvest H-2373 (2X)	24.5	26	26	102.8	106	104	4.2	3	2
*Blaney B606E (2X)	24.7	28	29	124.9	119	114	1.4	2	1
*Great Lakes GL-477 (2X)	25.0	--	--	138.2	---	---	6.3	-	-
Blaney B606E-wx (2X)	25.6	27	28	106.9	107	107	2.1	6	4
*Amcorn ZX5500 (2X)	25.7	--	--	127.0	---	---	2.9	-	-
*Migro HP23R (2X)	25.8	29	--	130.0	121	---	0.0	0	-
Migro HP20 (2X)	25.8	27	--	106.4	108	---	0.7	1	-
Funk G-4272 (3X)	25.9	28	27	100.0	114	106	6.4	4	3
Migro M-2018X (2X)	26.0	29	29	118.9	123	111	0.0	1	0
Pride 2206 (2X)	26.0	25	--	109.0	105	---	1.4	2	-
Amcorn PSX7300 (2X)	26.6	--	--	108.7	---	---	2.9	-	-
*Migro M-2022X (2X)	27.1	28	29	127.6	123	110	1.4	2	1
Average	23.8	25	26	110.7	109	105	3.5	4	3
Range	21.1 to 27.1	22 to 29	22 to 29	85.4 to 138.2	87 to 125	88 to 115	0.0 to 10.4	0 to 11	0 to 7
Least significant difference	1.3	0.8	0.6	11.1	7	5	-	-	-

(continued)

Table 18 (continued)

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 13	May 10	May 11
Harvested	November 5	November 14	November 6
Soil type	Aremac and Tosco Loamy sand	Aremac and Tosco Loamy sand	Nester sandy loam
Previous crop	Corn	Corn seeded to rye	Corn
Irrigation	3 times @ 1" = 3 in.	8 times @ 1" = 8 in.	----
Population	21,100	20,900	18,900
Rows	30"	30"	30"
Fertilizer	220-52-127+1% Zn	220-52-172+2% Zn	126-92-120
Soil test: pH	6.9	6.0	6.1
P	237 (very high)	404 (very high)	43 (medium)
K	286 (high)	219 (high)	276 (high)
Farm Cooperator:	Elmer Gowell, Rothbury (1980, 1979) Robert and August Ohse, Scottville (1978)		
County Extension Director:	Ed Strong, Hart (1980, 1979) Dean Raven, Scottville (1978)		

Table 19 (continued)

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Funk G-4141A (2X)	28.3	32	--	81.6	74	--	7.1	6	-
*Migro HP16 (2X)	28.8	32	--	101.6	89	--	4.9	3	-
*Pioneer 3958 (2X)	29.3	32	--	118.4	87	--	2.1	2	-
*DeKalb XL13 (2X)	30.7	33	--	99.6	88	--	5.9	4	-
*Garno S-90 (2X)	30.7	33	32	122.5	106	96	6.9	3	2
*Migro HP23R (2X)	34.9	35	--	112.1	95	--	2.1	1	-
Average	24.2	30	28	89.3	85	86	8.4	6	4
Range	22.0 to	26 to	26 to	65.8 to	64 to	71 to	1.4 to	1 to	2 to
	34.9	35	32	130.8	108	104	28.2	16	7
Least significant difference	1.4	1.0	0.7	10.1	7	5	-	-	-

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	May 16	May 18	May 17
Harvested	November 6	November 17	November 7
Soil type	Coventry-Newaygo Loam	Coventry-Newaygo Loam	Coventry-Newaygo Loam
Previous crop	Corn	Corn	Corn
Rows	36"	36"	36"
Fertilizer	126-92-60, manure	136-92-36	126-92-60, manure
Soil test: pH	6.3	6.6	6.7
P	603 (very high)	514 (very high)	325 (very high)
K	1554 (very high)	536 (very high)	372 (very high)
Farm Cooperator:	George Svec, Buckley		
County Extension Director:	George McManus, Traverse City		

Table 19

NORTHERN MICHIGAN Zone 4
Grand Traverse County Trial
One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Moisture		Bushels per acre		%Stalk lodging	
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Pride 1111 (2X)	22.0	--	--	65.8	--	--
DeKalb DK24 (3X)	22.1	27	--	85.3	83	--
Garno S-73 (2X)	22.2	--	--	80.8	--	--
Pride 1131 (2X)	22.3	--	--	92.5	--	--
Farm Bureau FBS259 (2X)	22.3	26	--	84.0	80	--
Garno S-69 (2X)	22.4	27	--	82.5	67	--
Funk G-4065 (MSX)	22.7	27	--	69.4	64	--
Northrup King PX14 (2X)	22.9	28	26	93.4	90	81
McKenzie 790 (MSX)	23.0	--	--	71.2	--	--
Michigan 200 (4X)	23.2	27	26	79.3	72	72
Funk G-4042 (MSX)	23.5	--	--	85.8	--	--
Garno S-70 (2X)	23.5	--	--	67.1	--	--
Trojan TX85 (3X)	24.0	--	--	69.0	--	--
Northrup King PK7 (2X)	24.0	28	--	78.7	75	--
Great Lakes GL-203 (3X)	24.0	--	--	90.7	--	--
Farm Bureau FBS265 (2X)	24.1	--	--	92.0	--	--
Michigan 2443 (3X)	24.2	28	27	87.6	84	83
Pride R141 (3X)	24.3	--	--	82.6	--	--
Blaney B101 (2X)	24.4	--	--	96.9	--	--
DeKalb XL6 (2X)	24.5	--	--	90.3	--	--
*Northrup King PX22 (2X)	24.5	29	28	101.8	94	94
Michigan 280 (4X)	24.5	28	27	89.7	84	82
Jacques JX32 (2X)	24.6	--	--	87.2	--	--
Jacques JX21 (2X)	24.7	28	--	90.3	83	--
Funk G-4085 (3X)	24.7	29	27	92.0	73	71
*Jacques JX44 (2X)	24.8	--	--	105.4	--	--
Warwick W844 (2X)	24.8	29	--	96.2	88	--
*Great Lakes GL-283 (3X)	24.8	--	--	102.3	--	--
*Garno S-85X (2X)	24.8	--	--	110.4	--	--
Trojan T759 (2X)	24.8	--	--	66.0	--	--
*Migro 2206 (2X)	24.9	30	--	107.2	92	--
*Migro M-0101 (2X)	25.0	29	29	115.0	98	90
*Hyland HL-2442 (2X)	25.2	--	--	107.7	--	--
*Pioneer 3950 (MSX)	25.3	29	--	112.6	97	--
Trojan T929 (2X)	25.4	--	--	84.4	--	--
*Michigan 333-3X (3X)	25.5	29	28	113.0	93	90
Blaney B100E (2X)	25.7	--	--	78.0	--	--
Great Lakes GL-352 (Sp.)	25.7	29	--	88.3	82	--
Trojan TX90 (3X)	25.8	30	28	78.5	76	75
Funk G-4195 (3X)	25.9	30	29	92.5	77	79
DeKalb EX1112 (2X)	26.1	--	--	94.3	--	--
Garno S-82E (2X)	26.3	--	--	94.9	--	--
*Pioneer 3901 (2X)	27.0	31	31	130.8	108	104
*Michigan 3102 (2X)	27.1	31	30	121.5	100	95
Blaney B201 (2X)	27.7	31	--	90.6	79	--

(continued)

Table 20

NORTHERN MICHIGAN Zone 4
Missaukee County Trial - Silage
One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Dry matter		Green weight		Tons per acre Dry weight	
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Funk G-4065 (MSX)	29.4	---	---	11.4	---	---
Pride 1128 (2X)	29.1	28.1	27.6	15.9	15.3	4.6
DeKalb XL6 (2X)	28.7	---	---	14.0	---	---
Pride 1131 (2X)	28.7	---	---	14.6	---	---
Garno S-70 (2X)	28.5	---	---	15.7	---	---
Trojan TX85 (3X)	28.3	27.9	27.8	12.0	14.1	13.2
Garno S-73 (2X)	27.7	---	---	13.7	---	---
Warwick W844 (Sp.)	27.6	---	---	13.3	---	---
Michigan 200 (4X)	27.5	27.5	28.0	13.8	14.9	13.8
Pride R108 (2X)	27.4	27.1	---	13.0	15.4	---
Jacques JX32 (2X)	27.4	---	---	14.2	---	---
Funk G-4085 (3X)	27.2	26.6	27.3	13.9	15.2	13.8
Golden Harvest XS-715 (2X)	27.2	---	---	17.5	---	---
Great Lakes GL-203 (3X)	27.2	---	---	16.2	---	---
Garno S-69 (2X)	26.8	27.7	---	12.5	14.1	---
Great Lakes GL-352 (Sp.)	26.7	26.6	---	14.6	15.5	---
Kaltenberg K300 (4X)	26.3	---	---	14.9	---	---
Migro HP16 (2X)	25.8	26.5	---	14.7	16.1	---
Jacques JX21 (2X)	25.7	---	---	11.9	---	---
Michigan 2443 (3X)	25.7	25.3	26.0	15.7	16.9	15.8
Pioneer 3950 (MSX)	25.4	24.9	---	15.2	16.1	---
DeKalb EX1112 (2X)	25.4	---	---	15.0	---	---
DeKalb XL11 (2X)	25.3	25.1	---	17.2	16.9	---
Garno S-85X (2X)	25.2	---	---	15.8	---	---
Great Lakes GL-283 (3X)	24.9	---	---	18.1	---	---
Garno S-82E (2X)	24.6	---	---	14.6	---	---
Golden Harvest XS-824 (2X)	24.6	---	---	17.7	---	---
Migro M-0101 (2X)	24.0	---	---	16.1	---	---
Michigan 280 (4X)	24.0	25.1	26.2	16.3	18.1	16.0
DeKalb XL13 (2X)	23.9	23.7	---	13.5	17.1	---

(continued)

Table 20 (continued)

Hybrid (Brand-Variety)	Tons per acre								
	%Dry matter			Green weight			Dry weight		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Funk G-4042 (MSX)	23.9	---	---	16.2	---	---	3.9	---	---
Jacques JX41 (2X)	23.8	---	---	16.4	---	---	3.9	---	---
Pioneer 3958 (2X)	23.7	24.1	---	15.9	17.9	---	3.8	4.3	---
Kaltenberg KX38 (2X)	23.4	---	---	17.2	---	---	4.0	---	---
Pioneer 3901 (2X)	23.3	22.6	22.6	18.9	19.5	17.8	4.4	4.4	4.0
Michigan 333-3X (3X)	23.3	23.6	23.8	17.2	18.1	16.5	4.0	4.3	3.9
Farm Bureau FBM279 (MSX)	23.3	---	---	17.2	---	---	4.0	---	---
Garno S-90 (2X)	23.3	---	---	16.9	---	---	3.9	---	---
Michigan 3102 (2X)	23.2	23.2	23.7	19.2	20.2	18.1	4.5	4.7	4.3
Migro HP23R (2X)	20.4	---	---	19.8	---	---	4.0	---	---
Average	25.7	25.6	25.8	15.3	16.5	15.5	3.9	4.2	3.9
Range	20.4	22.6	22.6	11.4	14.1	13.2	3.1	3.9	3.6
	to	to	to	to	to	to	to	to	to
	29.4	28.1	28.0	19.8	20.2	18.1	4.7	4.7	4.3
Least significant difference	2.3	1.5	1.2	2.0	1.4	0.9	0.6	0.4	0.3

	1980	1979	1978
Planted	May 17	May 17	May 17
Harvested	September 18	September 21	September 14
Soil type	Marlette sandy loam	Marlette sandy loam	Marlette sandy loam
Previous crop	Corn	Corn	Corn
Population	20,200	19,900	19,400
Rows	30"	30"	30"
Fertilizer	123-30-145	109-36-36	135-48-69
Soil test: pH	6.4	5.3	5.6
P	85 (high)	73 (high)	47 (medium)
K	198 (medium)	128 (low)	157 (low)

Farm Cooperator: Lake City Experiment Station, Michigan State University, Lake City

County Extension Director: Vern VandePol, Lake City

Table 21

NORTHERN MICHIGAN Zone 4
Alpena County Trial - Grain
One, Two, Three Year Averages - 1980, 1978, 1977**

Hybrid (Brand-Variety)	Bushels per acre								
	%Moisture			Green weight			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
*Acco UC1108 (2X)	22.0	---	---	89.4	---	---	23.2	---	---
*Farm Bureau FBS259 (2X)	22.0	---	---	91.2	---	---	44.3	---	---
Garno S-69 (2X)	22.0	---	---	84.0	---	---	31.5	---	---
Hyland HL-2219 (2X)	22.1	---	---	74.1	---	---	38.8	---	---
Warwick W777 (2X)	22.3	26	---	64.8	78	---	44.6	24	---
P-A-G SX503 (3X)	22.3	---	---	61.8	---	---	29.8	---	---
*Garno S-73 (2X)	22.3	---	---	85.5	---	---	24.4	---	---
Garno S-70 (2X)	22.4	---	---	71.7	---	---	41.3	---	---
Michigan 200 (4X)	22.5	28	28	73.5	78	86	30.9	18	14
Funk G-4042 (MSX)	22.6	---	---	63.2	---	---	14.5	---	---
Hyland HL-2217 (2X)	22.6	---	---	63.9	---	---	52.3	---	---
Jacques JX21 (2X)	22.8	---	---	79.7	---	---	20.8	---	---
DeKalb EX210 (3X)	23.1	---	---	63.5	---	---	16.4	---	---
P-A-G SX111 (2X)	23.2	---	---	70.1	---	---	43.4	---	---
Warwick W778 (Sp.)	23.3	---	---	63.0	---	---	28.8	---	---
Great Lakes GL-203 (3X)	23.4	---	---	82.6	---	---	21.4	---	---
*Northrup King PX14 (2X)	23.5	---	---	91.8	---	---	20.1	---	---
Warwick W747 (3X)	23.5	---	---	59.9	---	---	53.6	---	---
Pride 1111 (2X)	23.6	---	---	55.7	---	---	35.0	---	---
Custom CFS660 (Sp.)	23.7	31	---	69.5	81	---	56.4	31	---
DeKalb XL6 (2X)	23.7	---	---	73.3	---	---	25.7	---	---
Pride 1128 (2X)	23.8	31	30	63.7	85	98	38.8	20	17
*Pride R141 (3X)	23.9	---	---	86.5	---	---	15.2	---	---
*Northrup King PX22 (2X)	23.9	---	---	85.4	---	---	16.4	---	---
Michigan 2443 (3X)	23.9	30	31	76.0	86	98	33.0	19	13
Warwick W844 (Sp.)	24.1	---	---	83.5	---	---	33.4	---	---
Funk G-4065 (MSX)	24.1	---	---	59.5	---	---	55.6	---	---
Acco UC1124 (2X)	24.3	31	---	64.1	82	---	25.6	15	---
Pride R108 (3X)	24.4	---	---	63.2	---	---	41.1	---	---
Blaney B100E (2X)	24.5	---	---	71.5	---	---	11.8	---	---

(continued)

Table 21 (continued)

Hybrid (Brand-Variety)	Bushels per acre								
	%Moisture			Green weight			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
Michigan 280 (4X)	24.5	32	31	73.1	86	97	34.6	19	14
Great Lakes GL-352 (Sp.)	24.5	---	---	69.4	---	---	19.4	---	---
Hyland HL-2442 (2X)	24.5	---	---	73.1	---	---	17.3	---	---
Trojan TX90 (3X)	24.7	34	35	74.4	91	98	23.9	12	9
*Great Lakes GL-283 (3X)	24.8	---	---	87.8	---	---	16.7	---	---
Voris V2271 (Sp.)	25.1	33	---	63.5	72	---	15.8	9	---
P-A-G 501 (3X)	25.3	---	---	61.8	---	---	40.3	---	---
Renk RK3 (2X)	25.4	32	---	63.9	78	---	12.4	7	---
Jacques JX44 (2X)	25.4	---	---	82.7	---	---	19.7	---	---
Northrup King PX7 (2X)	25.6	---	---	80.6	---	---	53.4	---	---
Jacques JX32 (2X)	26.0	---	---	80.0	---	---	12.4	---	---
Pioneer 3950 (MSX)	26.0	---	---	80.1	---	---	8.8	---	---
Payco SX411 (2X)	26.0	---	---	72.0	---	---	13.7	---	---
Garno S-85X (2X)	26.7	---	---	63.8	---	---	27.2	---	---
*Renk RK6 (2X)	26.9	---	---	99.2	---	---	11.9	---	---
Michigan 333-3X (3X)	27.0	35	35	76.8	92	101	20.9	10	8
Garnett Ross 33PF2 (Sp.)	27.2	---	---	59.9	---	---	33.0	---	---
Blaney B201 (2X)	27.6	35	---	73.0	82	---	26.4	14	---
Golden Harvest H-2370 (2X)	28.3	36	37	73.4	88	104	9.2	5	4
*Payco SX680 (2X)	28.3	---	---	93.1	---	---	13.9	---	---
Michigan 3102 (2X)	28.3	36	36	84.6	101	110	23.9	14	9
Voris V2321 (Sp.)	28.6	36	---	73.6	84	---	25.4	13	---
DeKalb XL13 (2X)	28.7	---	---	78.7	---	---	14.4	---	---
*P-A-G SX181 (2X)	28.8	---	---	98.6	---	---	12.0	---	---
Pioneer 3958 (2X)	29.4	---	---	75.1	---	---	13.3	---	---
Pioneer 3901 (2X)	30.0	38	---	80.2	97	---	12.8	6	---
*Payco SX555 (2X)	30.9	---	---	85.4	---	---	7.9	---	---
Garno S-82E (2X)	30.9	---	---	74.1	---	---	15.8	---	---
Renk RK18 (2X)	31.4	---	---	62.0	---	---	10.7	---	---
Voris X391 (2X)	31.8	---	---	83.3	---	---	10.2	---	---
*Great Lakes GL-422 (2X)	32.0	---	---	89.8	---	---	5.3	---	---
*Garno S-90 (2X)	32.1	---	---	87.9	---	---	10.5	---	---
*Blaney 8003 (2X)	32.6	---	---	87.7	---	---	12.3	---	---
*Payco SX637 (2X)	33.5	---	---	86.0	---	---	7.2	---	---
Average	26.0	33	33	75.8	85	99	24.7	15	11
Range	22.0	26	28	55.7	72	86	5.3	5	4
	to	to	to	to	to	to	to	to	to
	33.5	38	37	99.2	101	110	56.4	31	17
Least significant difference	1.5	1.0	0.7	9.6	7	5	-	-	-

*Significantly better than average yield in 1980.

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

	1980	1978	1977
Planted	May 16	May 17	May 13
Harvested	November 7	October 20	November 1
Soil type	Onaway sandy loam	Bohemian very fine sandy loam	Bohemian very fine sandy loam
Previous crop	Corn	Corn	Corn
Population	21,200	19,100	22,200
Rows	28"	28"	28"
Fertilizer	46-46-46+chicken manure	138-38-38, manure	130-38-38, manure
Soil test: pH	7.5	7.2	7.3
P	602 (very high)	56 (medium)	50 (medium)
K	756 (very high)	122 (low)	152 (low)

Farm Cooperator: Robert Cornell, Posen

County Extension Director: Melvin Matchett, Alpena

Table 22

NORTHERN MICHIGAN
Alpena County Trial - Silage
One, Two, Three Year Averages - 1980, 1978, 1977*
Zone 4

Hybrid (Brand-Variety)	Dry matter		Tons per acre						
	Green weight		Dry weight						
	1980	yr. yr.	1980	yr. yr.	1980	yr. yr.			
Hyland HL-2219 (2X)	39.3	---	12.8	---	5.0	---			
Warwick W778 (Sp.)	38.8	---	13.5	---	5.3	---			
Pride 1111 (2X)	38.3	---	11.2	---	4.3	---			
P-A-G SX501 (3X)	37.5	---	12.2	---	4.6	---			
Garno S-69 (2X)	36.7	---	14.8	---	5.4	---			
Farm Bureau FBS259 (2X)	36.6	---	15.4	---	5.6	---			
Warwick W844 (Sp.)	36.4	---	17.0	---	6.1	---			
Warwick W747 (3X)	36.3	---	12.0	---	4.4	---			
Warwick W777 (2X)	35.3	31.2	15.7	18.7	5.5	5.7			
Jacques JX32 (2X)	34.6	---	15.7	---	5.4	---			
Pride R141 (3X)	34.3	---	17.5	---	6.0	---			
P-A-G 503 (3X)	34.2	---	13.4	---	4.5	---			
Funk G-4065 (MSX)	33.9	---	15.5	---	5.3	---			
Michigan 200 (4X)	33.8	31.1	29.5	15.4	18.2	18.8	5.3	5.6	5.5
Custom CFS660 (Sp.)	33.5	29.4	19.2	21.5	6.4	6.2	---		
Acco UCL108 (2X)	33.0	---	17.3	---	5.7	---			
Great Lakes GL-203 (3X)	33.0	---	18.2	---	6.0	---			
DeKalb XL6 (2X)	32.8	---	17.5	---	5.8	---			
Pride R108 (3X)	32.8	---	15.9	---	5.2	---			
Northrup King PX14 (2X)	32.4	---	18.8	---	6.1	---			
Renk RK3 (2X)	32.2	28.2	14.6	15.4	4.7	4.3	---		
Garno S-73 (2X)	32.1	---	16.5	---	5.3	---			
P-A-G SX111 (2X)	31.7	---	17.8	---	5.5	---			
Blaney B100E (2X)	31.6	---	17.4	---	5.5	---			
Voris V2271 (Sp.)	31.6	28.1	13.9	16.4	4.4	4.6	---		
Michigan 2443 (3X)	31.5	---	18.8	---	5.9	---			
Acco UCL124 (2X)	31.4	26.8	19.7	21.2	6.2	5.6	---		
Michigan 280 (4X)	31.4	28.7	27.2	19.9	20.8	21.6	6.2	5.9	5.9
Hyland HL-2217 (2X)	31.3	---	21.5	---	6.7	---			
Northrup King PX7 (2X)	30.7	---	17.9	---	5.5	---			
Great Lakes GL-283 (3X)	30.6	---	21.6	---	6.6	---			
Pioneer 3950 (MSX)	30.6	---	20.7	---	6.3	---			
DeKalb EX210 (3X)	30.5	---	16.5	---	5.0	---			
Pride 1128 (2X)	30.4	27.7	26.8	22.7	23.1	24.9	6.9	6.4	6.6
Payco SX411 (2X)	30.1	---	18.1	---	5.4	---			
Garnett Ross 33PF2 (Sp.)	29.7	---	16.8	---	5.0	---			
Garno S-82E (2X)	29.4	---	19.4	---	5.7	---			
Pioneer 3958 (2X)	29.2	---	17.3	---	5.1	---			
Garno S-85X (2X)	28.9	---	20.8	---	6.0	---			
P-A-G SX181 (2X)	28.9	---	24.2	---	7.0	---			
Trojan TX90 (3X)	28.9	25.8	25.1	17.3	18.9	21.6	5.0	4.9	5.4
Hyland HL-2442 (2X)	28.9	---	21.1	---	6.1	---			
Garno S-70 (2X)	28.8	---	19.3	---	5.6	---			
Jacques JX21 (2X)	28.4	---	18.3	---	5.2	---			
Jacques JX44 (2X)	28.3	---	19.2	---	5.4	---			
Renk RK6 (2X)	28.1	---	18.7	---	5.2	---			
Great Lakes GL-352 (Sp.)	28.0	---	19.3	---	5.4	---			
Funk G-4042 (MSX)	27.8	---	19.4	---	5.4	---			
Michigan 333-3X (3X)	27.8	25.9	24.9	21.6	21.6	24.1	6.0	5.6	6.0
Blaney B201 (2X)	27.8	26.6	18.2	20.4	5.1	5.7	---		
Northrup King PX22 (2X)	27.2	---	21.5	---	5.9	---			
DeKalb XL13 (2X)	27.0	---	26.0	---	7.0	---			
Michigan 3102 (2X)	26.9	25.0	24.1	23.2	23.4	25.5	6.3	6.0	6.1
Golden Harvest H-2370 (2X)	25.9	23.7	22.5	21.2	22.3	26.4	5.5	5.3	5.8
Payco SX637 (2X)	25.8	---	24.5	---	6.3	---			
Voris X391 (2X)	25.8	---	24.2	---	6.2	---			
Voris V2321 (Sp.)	25.8	24.7	20.2	18.9	5.2	4.6	---		
Garno S-90 (2X)	25.8	---	25.5	---	6.6	---			
Renk RK18 (2X)	25.7	---	23.2	---	6.0	---			
Great Lakes GL-422 (2X)	25.6	---	25.4	---	6.5	---			
Blaney 8003 (2X)	25.3	---	24.0	---	6.1	---			
Pioneer 3901 (2X)	25.2	23.5	23.8	24.8	6.0	5.8	---		
Payco SX555 (2X)	25.1	---	22.1	---	5.6	---			
Payco SX680 (2X)	24.8	---	24.1	---	6.0	---			
Average	30.7	27.1	25.7	18.9	20.4	23.3	5.6	5.5	5.9
Range	24.8	23.5	22.5	11.2	15.4	18.8	4.3	4.3	5.4
	39.3	31.2	29.5	26.0	24.8	26.4	7.0	6.4	6.6
Least significant difference	2.0	1.5	1.0	1.8	1.2	0.8	0.7	0.5	0.4

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

Table 22 (continued)

Planted Harvested Soil type	1980	1978	1977
	May 16 September 18	May 17 September 14	May 13 September 13
Onaway sandy loam	28"	Bohemian very fine sandy loam	Bohemian very fine sandy loam
Previous crop	Corn	Corn	Corn
Population	21,700	19,100	22,400
Rows	28"	28"	28"
Fertilizer	46-46-46+ chicken manure	138-38-38, manure	130-38-38, manure
Soil test: pH	7.5	7.2	7.3
P	602 (very high)	56 (medium)	50 (medium)
K	756 (very high)	122 (low)	152 (low)

Farm Cooperator: Robert Cornell, Posen
County Extension Director: Melvin Matchett, Alpena

Table 23

NORTHERN MICHIGAN
Alger County Trial - Silage
One, Two, Three Year Averages - 1980, 1979, 1977*
Zone 4

Hybrid (Brand-Variety)	Dry matter		Tons per acre						
	Green weight		Dry weight						
	1980	yr. yr.	1980	yr. yr.	1980	yr. yr.			
Pride 1108 (2X)	41.9	36.7	15.9	14.8	6.7	5.5	---		
Pride 1111 (2X)	39.9	---	14.4	---	5.7	---			
Warwick W747 (3X)	39.7	---	15.3	---	6.0	---			
DeKalb XL11 (2X)	37.8	---	20.9	---	7.9	---			
Funk G-4065 (MSX)	36.5	31.6	19.0	17.4	6.9	5.6	---		
Michigan 280 (4X)	35.6	27.8	30.5	18.5	19.2	18.1	6.6	5.3	5.4
Trojan T759 (2X)	35.3	---	13.6	---	4.8	---			
Blaney B220 (3X)	34.7	29.1	30.4	22.4	20.9	18.9	7.8	6.2	5.7
Warwick W844 (Sp.)	34.0	29.6	19.4	19.7	6.6	5.9	---		
Midland M180 (2X)	33.8	---	17.6	---	6.0	---			
DeKalb DK24 (3X)	33.7	32.0	16.9	16.4	5.7	5.3	---		
Jung 3200 (3X)	33.4	---	19.9	---	6.6	---			
Michigan 2443 (3X)	33.4	28.5	30.6	20.6	21.1	19.9	6.8	6.0	6.0
Funk G-4042 (MSX)	33.2	---	21.1	---	7.0	---			
Pioneer 3950 (MSX)	33.0	29.0	21.7	21.1	7.2	6.2	---		
Blaney B100E (2X)	33.0	---	18.8	---	6.2	---			
Pride R141 (3X)	33.0	---	21.3	---	7.0	---			
Pride R108 (3X)	32.9	30.9	19.3	17.3	6.4	5.4	---		
Midland M380 (3X)	32.8	---	19.5	---	6.4	---			
Jung 2200 (2X)	32.7	---	18.3	---	6.0	---			
DeKalb XL6 (2X)	32.0	---	20.7	---	6.6	---			
Pioneer 3901 (2X)	31.5	26.8	23.5	22.7	7.4	6.2	---		
Michigan 200 (4X)	31.1	26.9	31.4	17.7	17.7	15.9	5.5	4.8	4.8
Pioneer 3958 (2X)	30.2	26.7	20.1	19.4	6.0	5.2	---		
Paltzer P100	26.6	---	18.4	---	5.5	---			
Average	34.2	29.6	30.7	19.0	18.9	18.2	6.5	5.6	5.5
Range	29.6	26.7	30.4	13.6	14.8	15.9	4.8	4.8	4.8
	41.9	36.7	31.4	22.6	22.7	19.9	7.9	6.2	6.0
Least significant difference	2.2	1.4	0.9	2.0	1.4	1.0	1.0	0.7	0.4

*No results in 1978. Hail destroyed the plots.

Planted Harvested Soil type	1980	1979	1977
	May 2	May 10	May 3
Previous crop	Sunflowers	Corn	Oats
Population	19,700	21,300	20,100
Rows	36"	36"	36"
Fertilizer	115-75-75	110-75-75	117-72-72
Soil test: pH	---	---	7.2
P	---	---	161 (very high)
K	---	---	172 (medium)

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

(continued)

Table 24

NORTHERN MICHIGAN
 Menominee County Trial - Grain
 Zone 4
 One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Moisture			Bushels per acre			%Stalk lodging		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
	Warwick W778 (Sp.)	24.6	---	---	118.3	---	---	33.6	-
Pride R108 (3X)	25.2	28	---	127.8	111	---	32.6	16	-
Warwick W747 (2X)	25.6	---	---	89.4	---	---	53.5	-	-
Funk G-4065 (MSX)	25.7	25	---	135.0	112	---	32.4	16	-
Warwick W777 (2X)	25.9	25	---	136.9	122	---	22.1	11	-
*Acco UC1108 (2X)	26.1	---	---	143.6	---	---	15.6	-	-
*Pride 1131 (2X)	26.6	---	---	145.8	---	---	17.6	-	-
Pride 1128 (2X)	26.9	27	28	141.2	131	110	21.4	11	9
Trojan T929 (2X)	27.2	29	---	109.1	104	---	29.1	15	-
Pioneer 3990	27.2	27	28	115.5	102	87	24.3	12	14
Pride R113 (3X)	27.4	29	---	109.4	113	---	37.5	19	-
Blaney B35 (4X)	27.5	27	---	101.1	96	---	25.4	13	-
*Midland M188	27.6	---	---	146.0	---	---	25.0	-	-
*Northrup King PX14 (2X)	27.7	---	---	145.8	---	---	13.0	-	-
DeKalb XL6 (2X)	28.3	---	---	120.2	---	---	21.3	-	-
Northrup King PX7 (2X)	28.3	29	30	137.0	122	102	18.3	9	9
Jung 2200 (2X)	28.3	26	---	130.7	116	---	18.8	9	-
Blaney B101 (2X)	28.3	---	---	118.2	---	---	20.6	-	-
*Northrup King PX11 (2X)	28.6	27	---	149.4	131	---	22.0	11	-
Michigan 200 (4X)	29.4	31	32	98.4	89	78	43.1	22	18
Funk G-4042 (MSX)	29.7	---	---	127.5	---	---	16.7	-	-
Jung 3200 (3X)	29.7	30	---	132.7	118	---	15.6	8	-
Pioneer 3950 (MSX)	30.0	31	---	140.3	126	---	3.8	2	-
Trojan TXS82 (2X)	30.0	30	30	112.9	103	95	21.3	11	10
Jung 2300 (2X)	30.3	---	---	136.9	---	---	12.7	-	-
Jung 3250 (3X)	31.3	35	---	116.9	106	---	3.9	2	-
Blaney B100E (2X)	31.4	---	---	108.6	---	---	12.3	-	-
Blaney B220 (3X)	32.1	---	---	128.1	---	---	29.7	-	-
Pride R144 (3X)	32.1	33	---	118.5	110	---	13.4	7	-
Funk G-4085 (3X)	32.3	33	---	104.1	98	---	22.9	11	-
DeKalb XL11 (2X)	32.6	---	---	138.4	---	---	11.4	-	-
Trojan T880 (MSX)	32.7	---	---	100.4	---	---	23.7	-	-
Blaney B201 (2X)	32.9	34	---	135.6	117	---	10.7	5	-
Midland M193	33.3	---	---	138.3	---	---	5.0	-	-
*Michigan 280 (4X)	33.4	34	36	143.8	128	106	21.4	11	10
Michigan 2443 (3X)	33.6	34	35	105.8	102	89	37.4	19	16
Paltzer P150	33.7	---	---	80.1	---	---	20.7	-	-
Trojan TX90 (3X)	33.8	34	34	124.1	110	98	16.8	8	9
Blaney B302-wx (2X)	34.1	34	---	140.8	119	---	13.6	7	-
Pioneer 3965A (3X)	34.4	34	35	125.6	120	104	3.4	2	1
Paltzer P100	34.5	---	---	85.8	---	---	19.8	-	-
Midland M180 (2X)	34.5	---	---	131.7	---	---	13.5	-	-
Pioneer 3958 (2X)	35.3	35	---	132.7	122	---	11.0	6	-
*Pride R319 (3X)	35.8	---	---	151.2	---	---	6.0	-	-
Pride 2206 (2X)	36.2	---	---	140.5	---	---	7.6	-	-
*DeKalb XL314 (3X)	36.5	---	---	159.0	---	---	4.5	-	-
*DeKalb XL13 (2X)	36.6	---	---	160.4	---	---	12.5	-	-
*Pioneer 3906 (2X)	37.1	---	---	162.4	---	---	3.6	-	-
*Pioneer 3901 (2X)	37.3	38	39	179.0	153	130	9.4	5	5
Average	30.8	31	32	128.2	115	100	19.0	10	10
Range	24.6	25	27	80.1	89	78	3.4	2	1
	37.3	38	39	179.0	153	130	53.5	22	18
Least significant difference	2.5	2.0	1.4	15.1	9	6	-	-	-

*Significantly better than average yield in 1980.

	1980	1979	1978
Planted	April 30	May 16	May 11
Harvested	September 29	October 18	October 11
Soil type	Onaway loam-sandy loam	Onaway loam-sandy loam	Onaway loam-sandy loam
Previous crop	Corn	Corn	Corn
Population	20,500	20,500	20,400
Rows	30"	30"	30"
Fertilizer	122-77-77, 15 tons manure	200-92-132+22 lbs. S	100-75-75

Farm Cooperator: Nick Thoney, Daggett (1980, 1979)
 D & C Equipment, Stephenson (1978)

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
 Zone 4
 One, Two, Three Year Averages - 1980, 1979, 1978

Hybrid (Brand-Variety)	%Dry matter			Tons per acre			Dry weight		
	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.	1980	2 yr.	3 yr.
	Warwick W747 (2X)	55.4	---	---	12.4	---	---	6.9	-
Acco UC1108 (2X)	55.1	---	---	20.5	---	---	11.3	-	-
Pride R113 (3X)	53.7	43.3	---	13.6	15.0	---	7.2	6.3	-
Pioneer 3906 (2X)	53.6	---	---	25.4	---	---	13.7	-	-
Warwick W778 (Sp.)	51.8	---	---	16.1	---	---	8.3	-	-
Trojan T929 (2X)	51.0	40.8	---	15.0	16.1	---	7.6	6.4	-
Midland M188	50.3	---	---	18.8	---	---	9.4	-	-
Jung 2200 (2X)	49.4	41.9	---	17.9	15.7	---	8.9	6.8	-
Pioneer 3965A (3X)	49.3	42.1	---	19.6	17.6	---	9.6	7.5	-
Michigan 2443 (3X)	49.3	41.2	42.0	16.6	16.8	14.4	8.2	6.9	6.0
Jung 2300 (2X)	49.3	---	---	21.1	---	---	10.4	-	-
Pioneer 3950 (MSX)	48.6	41.9	---	19.1	16.7	---	9.3	7.1	-
Funk G-4042 (MSX)	47.9	---	---	19.7	---	---	9.4	-	-
Blaney B101 (2X)	47.7	---	---	14.7	---	---	7.0	-	-
Jung 3200 (3X)	47.5	41.2	---	17.7	16.6	---	8.4	6.9	-
Blaney B35 (4X)	47.4	39.9	---	11.7	13.3	---	5.5	5.2	-
Pride 1131 (2X)	47.3	---	---	18.0	---	---	8.6	-	-
Jung 3250 (3X)	47.1	36.8	---	15.6	19.1	---	7.4	6.7	-
Northrup King PX14 (2X)	47.0	40.8	43.6	19.1	16.5	13.9	8.9	6.8	6.0
Funk G-4065 (MSX)	46.6	39.8	---	15.5	15.7	---	7.2	6.2	-
DeKalb XL6 (2X)	46.4	---	---	15.5	---	---	7.2	-	-
Trojan TXS82 (2X)	46.4	40.7	---	14.0	17.4	---	6.5	6.0	-
Pride R144 (3X)	46.0	36.2	---	16.3	17.3	---	7.5	6.1	-
Northrup King PX11 (2X)	45.9	---	---	18.2	---	---	8.4	-	-
Warwick W777 (2X)	45.8	41.7	---	16.3	15.7	---	7.5	6.5	-
Pioneer 3990	45.4	38.2	---	15.5	13.4	---	7.1	5.3	-
Michigan 280 (4X)	45.0	36.5	38.0	22.2	20.4	17.1	10.0	7.6	6.5
Blaney B201 (2X)	44.6	35.8	---	21.1	19.4	---	9.4	7.1	-
Midland M180 (2X)	44.0	---	---	17.6	---	---	7.7	-	-
Pride R108 (3X)	43.8	38.7	---	15.4	16.4	---	6.7	6.2	-
Pioneer 3958 (2X)	42.8	37.1	---	19.3	17.7	---	8.3	6.7	-
Blaney B100E (2X)	42.6	---	---	17.8	---	---	7.6	-	-
DeKalb XL11 (2X)	42.5	---	---	18.3	---	---	7.8	-	-
Blaney B302-wx (2X)	42.3	37.8	---	19.9	19.8	---	8.4	7.5	-
Pride 1128 (2X)	42.3	38.6	42.0	19.9	18.6	15.7	8.4	7.2	6.4
Northrup King PX7 (2X)	42.1	36.7	---	16.7	17.2	---	7.1	6.3	-
Trojan TX90 (3X)	42.0	34.7	38.2	16.2	16.5	14.1	6.8	5.7	5.2
DeKalb XL314 (3X)	41.4	---	---	24.6	---	---	10.2	-	-
Michigan 200 (4X)	41.4	36.6	39.9	13.5	12.7	10.9	5.5	4.6	4.2
Midland M193	41.1	---	---	16.3	---	---	6.7	-	-
Pioneer 3901 (2X)	40.4	34.8	36.3	23.2	19.5	17.2	9.4	7.0	6.2
Pride R319 (3X)	40.0	---	---	22.2	---	---	8.9	-	-
Blaney B220 (3X)	39.9	---	---	17.3	---	---	6.9	-	-
Funk G-4085 (3X)	39.7	35.2	39.8	16.5	16.2	13.3	6.5	5.7	5.0
Pride 2206 (2X)	39.5	---	---	20.9	---	---	8.3	-	-
Trojan T880 (MSX)	39.3	---	---	16.8	---	---	6.6	-	-
DeKalb XL13 (2X)	37.6	---	---	24.2	---	---	9.2	-	-
Paltzer P150	37.3	---	---	14.8	---	---	5.5	-	-
Paltzer P100	34.9	---	---	17.6	---	---	5.1	-	-
Average	45.3	38.7	39.9	17.9	16.8	14.5	8.1	6.5	5.6
Range	34.9	34.7	36.3	11.7	12.7	10.9	5.5	4.6	4.2
	55.4	43.3	43.6	25.4	20.4	17.2	13.7	7.6	6.5
Least significant difference	3.5	2.8	2.2	3.1	2.6	2.2	1.4	1.1	0.9

	1980	1979	1978
Planted	April 30	May 16	May 11
Harvested	September 19	September 19	September 27
Soil type	Onaway loam-sandy loam	Onaway loam-sandy loam	Onaway loam-sandy loam
Previous crop	Corn	Corn	Corn
Population	21,000	21,200	20,300
Rows	30"	30"	30"
Fertilizer	122-77-77, 15 tons manure	200-92-132+22 lbs. S	100-75-75

Farm Cooperators: Nick Thoney, Daggett (1980, 1979)
 D & C Equipment, Stephenson (1978)

County Extension Director: Richard A. Breyer, Stephenson

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

Table 26

Index for 435 hybrids entered as 2,272 entries in the 1980 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 UC1108 (2X) (21,22,24,25)
 Acco UC1124 (2X) (21,22)
 Acco UC1905 (2X) (7,8)
 Acco UC2851 (2X) (1,4)
 Acco UC2901 (2X) (11,12)
 Acco UC2951 (2X) (11,12,13)

ADI Distributors, Inc., Carmel, Indiana 46032
 ADI 195 (2X) (14,15)
 ADI 197 (2X) (13,17)
 ADI 232 (2X) (13,14,15,17)
 ADI 306 (2X) (3,13,14,15,17)

The Andersons, Maumee, Ohio 43537
 Andersons SSA (2X) (1,2,3,7,8,9,10,
 11,12,13,14,15)
 Andersons SSE (2X) (1,2,3,7)
 Andersons SSL (2X) (1,2,3)

B

Asgrow Seed Co., Kalamazoo, Michigan 49001
 Asgrow RX40 (MSX) (8,11,12,13)
 Asgrow RX61A (2X) (5)
 Asgrow RX90 (2X) (1)
 Asgrow RX511 (2X) (4,5,6,8,9,10,11,12,13,17)

Bayless Hybrids, Inc., Bluffton, Indiana 46714
 Bayless SX386 (2X) (6)
 Bayless SX424 (2X) (3,5)

B

Blaney Farms, Inc., Madison, Wisconsin 53711
 Blaney B35 (4X) (24,25)
 Blaney B100E (2X) (6,17,19,21,22,23,
 24,25)
 Blaney B101 (2X) (17,19,24,25)
 Blaney B201 (2X) (19,21,22,24,25)
 Blaney B220 (3X) (23,24,25)
 Blaney B302-wx (2X) (11,12,18,24,25)
 Blaney B401 (2X) (3,13)
 Blaney B443 (3X) (11,12)
 Blaney B501A (2X) (18)
 Blaney B506 (2X) (2,8,16)
 Blaney B506-wx (2X) (2,7,11,12,13)

C

Cargill Seeds, Minneapolis, Minnesota 55440
 Cargill 436 (3X) (2,5,6)
 Cargill 810 (2X) (14,15)
 Cargill 832 (2X) (14,15)
 Cargill 834 (Exp. 263047) (2X)
 (6,11,12,14,15)

Cowbell Seeds, Inc., Bradley, Michigan 49311
 Amcorn Exp. 4 (7,8,11,12,13,16,17,18)
 Amcorn PSX7300 (2X) (11,12,13,14,15,16,
 17,18)
 Amcorn ZX5500 (2X) (1,2,5,6,7,8,11,
 12,13,14,15,16,17,18)
 Amcorn ZX6500 (2X) (1,2,3,4,5,6,7,8,
 9,10)

G

Garnett-Ross, Inc., Bethesda, Maryland 20014
 Garnett Ross 33PF2 (Sp.) (21,22)
 Garnett Ross 5328 (Sp.) (11,12)

Garno Seed Co., Inc., Palmyra, Michigan 49268
 Garno S-69 (2X) (19,20,21,22)
 Garno S-70 (2X) (19,20,21,22)
 Garno S-73 (2X) (19,20,21,22)
 Garno S-82E (2X) (18,19,20,21,22)
 Garno S-85X (2X) (11,12,14,15,18,19,
 20,21,22)
 Garno S-90 (2X) (1,2,3,4,5,7,8,9,10,
 11,12,13,14,15,16,17,18,19,20,21,
 22)

Great Lakes Hybrids, Inc., Ovid, Michigan 48866

Great Lakes GL-203 (3X) (19,20,21,22)
 Great Lakes GL-283 (3X) (19,20,21,22)
 Great Lakes GL-352 (Sp.) (16,17,18,19,
 20,21,22)
 Great Lakes GL-422 (2X) (2,7,8,9,10,
 11,12,13,14,15,16,17,18,21,22)
 Great Lakes GL-455 (2X) (2,7,8,9,10,
 11,12,13,14,15,16,17,18)
 Great Lakes GL-477 (2X) (2,3,4,5,6,7,8,
 9,10,11,12,13,14,15,16,17,18)
 Great Lakes GL-511 (2X) (2,3,4,5,6,7,8,
 9,10,11,12,13,14,15,16,17,18)
 Great Lakes GL-552 (2X) (1,2,3,4,5,6,
 7,8,9,10,11,12,13,14,15)
 Great Lakes Exp. 80111 (2X) (7,13)
 Gries Seed Farms, Inc., Fremont, Ohio 43420
 Gries X408 (2X) (1,2,9,10)
 Gries X500 (2X) (1,2,9,10)

Fred Gutwein & Sons, Inc., Francesville, Indiana 47946
 Gutwein 46B (2X) (2,5,9,10)
 Gutwein 69B (2X) (3)
 Gutwein 112 (3X) (2)
 Gutwein 2085 (2X) (11,12,14,15)
 Gutwein 2140 (2X) (9,10,11,12,13,14,
 15)
 Gutwein 2180 (2X) (5,7,9,10,13)

Hyland Seeds, W.G. Thompson & Sons, Ltd., Blenheim, Ontario
 Hyland HL-2217 (2X) (21,22)
 Hyland HL-2219 (2X) (21,22)
 Hyland HL-2428 (2X) (7,11,12)
 Hyland HL-2440 (2X) (7,9,10,11,12,14,
 15)
 Jacques Seed Co., Prescott, Wisconsin 54021
 Jacques JX21 (2X) (19,20,21,22)
 Jacques JX32 (2X) (19,20,21,22)
 Jacques JX44 (2X) (17,18,19,20,21,22)
 Jacques JX97 (2X) (4,6,7,8,9,10,11,12,
 13,14,15,16,17,18)

H

J

Jacques JX122A (2X) (11,12,14,15)
 Jacques JX147 (2X) (1,2,3,4,5,7,8,9,10,
 11,12,13,14,15,16,17)
 Jacques JX166 (2X) (16)
 Jacques JX177 (2X) (1,
 5,7,8,9,10,13)
 Jacques JX179 (2X) (1,2,3,4,5,9,10)

Jung Farm Seeds, Momenca, Illinois 60954
 FS W102 (2X) (7)
 CFS W116 (2X) (8)
 CFS W220 (2X) (3,4,5)
 CFS 660 (Sp.) (21,22)
 CFS 1000 (2X) (7,17)
 Dairyland Seed Co., Inc., West Bend, Wisconsin 53094
 Dairyland DX1002 (2X) (7,13)
 Dairyland DX1003 (2X) (7,8,9,10,13,14,15,16,17)
 Dairyland DX1004 (2X) (1,3,5,7,8,11,12,13,14,15,16,17)
 Dairyland DX1005 (2X) (3)
 Dairyland DX1007 (2X) (1,4)
 Dairyland DX1007B (MSX) (1,4,8,13)
 Dairyland DX1008 (2X) (1,5,7,8,9,10,11,12,14,15)
 DeKalb Ag. Research, Inc., DeKalb, Illinois 60115
 DeKalb XL6 (2X) (19,20,21,22,23,24,25)
 DeKalb XL11 (2X) (20,23,24,25)
 DeKalb XL13 (2X) (9,10,11,12,13,14,15,18,19,20,21,22,24,25)
 DeKalb XL14aa (2X) (4,6,11,12,13,16,17,18)
 DeKalb XL15 (2X) (17)
 DeKalb XL23 (2X) (9,10,13,14,15,17,18)
 DeKalb DK24 (3X) (19,23)
 DeKalb XL25a (2X) (1,3,5,7,8,9,10,11,12,13,14,15)
 Dennis Hybrid Corp., Windfall, Indiana 46076
 Dennis DS3 (2X) (1,3,5,9,10)
 Dennis DS6 (2X) (1,3,5,9,10)
 Dennis DS25 (2X) (1,3,5,9,10)
 Farm Bureau Services, Lansing, Michigan 48904
 Farm Bureau FBS259 (2X) (19,21,22)
 Farm Bureau FBS265 (2X) (19)
 Farm Bureau FBM279 (MSX) (20)
 Farm Bureau FBS300 (2X) (8)
 Farmers Corn Co., Jerome, Michigan 49249
 Farmers FCC224a (MSX) (1,2,3)
 Ferry Morse Seed Co., Geneseo, Illinois 61254
 Gold Tag 1090 (MSX) (5,9,10)
 Gold Tag 2006 (2X) (1,2,3,5)
 Gold Tag 2060 (MSX) (1,2,3,5,9,10)
 Edward J. Funk & Sons, Kentland, Indiana 47951
 Super Crost 1700 (MSX) (5,9,10,11,12,13,14,15,16,17)
 Super Crost 1950 (MSX) (9,10,11,12,13,14,15,16,17)
 Super Crost 2350 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17)
 Funk Seeds International, Bloomington, Illinois 61701
 Funk G-4042 (MSX) (14,15,19,20,21,22,23,24,25)
 Funk G-4065 (MSX) (14,15,19,20,21,22,23,24,25)

Jung Farms, Inc., Randolph, Wisconsin 53596
 Jung 2200 (2X) (23,24,25)
 Jung 2300 (2X) (24,25)
 Jung 3200 (2X) (23,24,25)
 Jung 3250 (2X) (24,25)
 Kaltenberg Farms, Waunakee, Wisconsin 53597
 Kaltenberg KX38 (2X) (20)
 Kaltenberg KX50 (2X) (11,12)
 Kaltenberg KX54 (2X) (11,12,13,14,15)
 Kaltenberg KX55 (2X) (11,12)
 Kaltenberg KX58 (2X) (6,9,10,11,12,13,14,15)
 Kaltenberg KX61 (2X) (6,9,10,11,12,13,14,15)
 Kaltenberg KX68 (2X) (9,10,11,12,14,15)
 Kaltenberg KX73 (2X) (3,5)
 Kaltenberg KX76 (2X) (3,5)
 Kaltenberg K300 (4X) (20)

Leader Seeds, Celina, Ohio 45822
 Leader SX480A (2X) (1,14,15)
 Leader SX500A (2X) (1,3,7)
 Leader SX510 (2X) (1,2,3,5,7,9,10,14,15)
 Low Seed Co., Kankakee, Illinois 60901
 Low LSX100 (2X) (1,5,9,10)
 Low LSX217 (2X) (1,5,9,10)
 McCurdy Seed Co., Fremont, Iowa 52561
 McCurdy 4664 (2X) (8)
 McCurdy 4855 (2X) (5,6,9,10)
 McKenzie Seeds, Breckenridge, Michigan 48615
 McKenzie 790 (MSX) (16,19)
 McKenzie 901 (3X) (13,16)

Michigan Hybrid Seed Co., East Lansing, Michigan 48823
 Wolverine W126 (2X) (8,11,12,17)
 Wolverine W132 (2X) (7,8,11,12,13,16,17)
 Wolverine W166 (2X) (2,4,7,9,10,11,12,13,14,15,17)
 Midland Cooperative, Minneapolis, Minnesota
 Midland M180 (2X) (23,24,25)
 Midland M188 (24,25)
 Midland M193 (24,25)
 Midland M380 (3X) (23)

Migro-NAPB, Mitchell, Indiana 47446
 Migro HP16 (2X) (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)
 Migro HP23R (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
 Migro HP27 (2X) (1,2,3,4,5,6,7,8,9,10)
 Migro SPX49 (2X) (1,2,3,4,5,6)
 Migro HP470 (2X) (1,2,3,4,5,6)

Northrup King Co., Minneapolis, Minnesota 55440
 Northrup King PX7 (2X) (19,21,22,24,25)
 Northrup King PX11 (2X) (24,25)
 Northrup King PX14 (2X) (19,21,22,24,25)
 Northrup King PX22 (2X) (16,19,21,22)
 Northrup King PX37 (2X) (1,3,5,7,9,10,13)
 Northrup King PX39 (2X) (1,3,5,7,9,10,13,14,15)

O's Gold Seed Co., Parkersburg, Iowa 50665
 O's Gold SX845 (2X) (18)
 O's Gold SX999 (2X) (11,12)
 O's Gold SX1005 (2X) (11,12,14,15,16,18)
 O's Gold SX1100 (2X) (13)

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- P-A-G Seeds, Minneapolis, Minnesota 55440
 P-A-G SX67 (2X) (11,12,14,15)
 P-A-G SX111 (2X) (21,22)
 P-A-G SX177 (2X) (11,12,14,15)
 P-A-G SX181 (2X) (3,4,5,6,7,9,10,11,12,13,14,15,17,21,22)
 P-A-G SX189 (2X) (6,9,10,11,12,13,14,15)
- Paltzer & Sons, Appleton, Wisconsin 54911
 Paltzer P100 (23,24,25)
 Paltzer 150 (24,25)
- Roy W. Parker & Sons, Inc., Kimmell, Indiana 46760
 Parker 29 (2X) (5)
 Parker 36A (2X) (5)
- Payco Seeds, Dassel, Minnesota 55325
 Payco SX411 (2X) (21,22)
 Payco SX555 (2X) (21,22)
 Payco Exp. SX620 (2X) (1,4,7,9,10,13,14,15)
 Payco SX637 (2X) (1,2,4,7,9,10,13,14,15,21,22)
 Payco 680 (2X) (13,14,15,21,22)
- Pfizer Genetics, Inc., Windfall, Indiana 46076
 Trojan TYS82 (2X) (24,25)
 Trojan TYS85 (3X) (19,20)
 Trojan TYS90 (3X) (11,12,19,21,22,24,25)
 Trojan TYS94 (2X) (7,11,12,13,16)
 Trojan TYS102 (2X) (11,12)
 Trojan TYS115A (2X) (1,2,3,5)
 Trojan T759 (2X) (19,23)
- Pfizer Chemical and Genetics, Ltd., Blenheim, Ontario
 Warwick TX27 (3X) (11,12)
 Warwick SL501 (Sp.) (4,8)
 Warwick W747 (3X) (21,22,23,24,25)
 Warwick W777 (2X) (21,22,24,25)
 Warwick W778 (Sp.) (21,22,24,25)
- Pioneer Hi-Bred International, Inc., Tipton, Indiana 46072
 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 3572 (2X) (1,2,3,4,5,9,10)
 Pioneer 3780 (2X) (1,2,3,4,5,6,7,8,9,10,13,16,17,18)
 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 3906 (2X) (11,12,14,15,24,25)
- Prairie Stream Farms, Inc., Frankfort, Indiana 46041
 Prairie Stream SX33 (2X) (5)
 Prairie Stream SX44 (2X) (5)
- Pride Seed, Inc., Carson City, Michigan 48811
 Pride R108 (3X) (21,22,23,24,25)
 Pride R113 (3X) (24,25)
 Pride R141 (3X) (19,21,22,23)
 Pride R144 (3X) (24,25)
 Pride R319 (3X) (7,11,12,13,14,15,16,24,25)
 Pride 549 (3X) (5,9,10,11,12)
 Pride 1108 (2X) (23)
 Pride 1111 (2X) (19,21,22,23)
- P-A-G SX249 (2X) (1,6,9,10)
 P-A-G SX277 (2X) (3,5)
 P-A-G SX397 (2X) (2,3,4,5,6)
 P-A-G 501 (2X) (21,22)
 P-A-G 503 (3X) (21,22)
- Pro-Seed, Inc., Blissfield, Michigan 49228
 Pro-Seed PS145 (2X) (1)
 Pro-Seed PS150 (2X) (1)
 Pro-Seed PS155 (2X) (1)
 Pro-Seed PS175 (2X) (1)
 Pro-Seed PS185 (2X) (1)
 Pro-Seed PS190 (2X) (1)
- Robson Seed Farms, Corp., Hall, New York 14463
 Seneca PCL4 (2X) (13,14,15)
 Seneca 140 (3X) (13,14,15)
 Seneca 149 (3X) (11,12,13,14,15)
 Seneca 321 (3X) (7,9,10)
- Rupp Seed Farms, Wauseon, Ohio 43567
 Rupp XRI490 (2X) (1,4,5,6,7,8,9,10)
 Rupp XRI591 (2X) (1,2,3,4,5,6,7,8,9,10)
 Rupp XRI619 (2X) (1,2)
 Rupp XRI624 (2X) (1,2,3,4,5,6)
- Select Seed Hybrids, Camden, Indiana 46917
 Select 3100 (2X) (2,4,5,7)
 Select 3300 (2X) (2,3,4,5,7)
- Solar Seed Service, Colon, Michigan 49040
 Solar 1101 (2X) (3,4)
- Sommer Bros. Seed Co., Pekin, Illinois 61554
 Golden Harvest XS-582 (2X) (2,5,9,10,14,15)
 Golden Harvest XS-700 (2X) (7,9,10)
 Golden Harvest XS-715 (2X) (17,18,20)
 Golden Harvest XS-824 (2X) (11,12,17,20)
 Golden Harvest H-2239 (MSX) (6)
 Golden Harvest H-2340 (2X) (6,8,14,15)
- Vistron Corp., Lima, Ohio 45802
 Sohigro 15 (2X) (16)
 Sohigro 22 (2X) (13)
 Sohigro 33 (2X) (13,16)
- Voris Seeds, Inc., Windfall, Indiana 46076
 Voris X391 (2X) (6,9,10,13,16,21,22)
 Voris X401 (2X) (6,11,12,14,15,17)
 Voris V2491 (2X) (1,3,5)
 Voris V2271 (Sp.) (21,22)
 Voris V2321 (Sp.) (21,22)
 Voris V2372 (2X) (7,14,15)
- Pride 1128 (2X) (20,21,22,24,25)
 Pride 1131 (2X) (19,20,24,25)
- Pro-Seed PS200 (2X) (1)
 Pro-Seed PS220 (2X) (1)
 Pro-Seed PS225 (2X) (1)
 Pro-Seed PS230 (2X) (1)
 Pro-Seed PS240 (2X) (1)
 Pro-Seed PS260 (2X) (1)
- Renk Seed Co., Sun Prairie, Wisconsin 53590
 Renk RK3 (Sp.) (21,22)
 Renk RK6 (2X) (14,15,21,22)
 Renk RK18 (2X) (6,9,10,11,12,14,15,21,22)
 Renk RK66 (2X) (3,5,7,9,10,11,12,14,15)
 Renk RK77 (2X) (3,5,9,10)
 Renk RK146 (3X) (7,9,10,11,12,14,15)
- Research Ventures, Inc., Ames, Iowa 50010
 Research Ventures RV12361 (2X) (1,3,4)
- Seneca S1341 (2X) (7,9,10)
 Seneca T1850 (3X) (7,9,10)
 Seneca S2361 (2X) (7,9,10)
 Seneca S3195 (2X) (7,9,10)
- Sohigro 39 (2X) (13,14,15)
 Sohigro Exp. 290 (2X) (11,12,13,16)
- Voris V2381 (2X) (11,12,16)
 Voris V2411 (2X) (1,3,5,6,9,10,11,12,13,14,15,16,17)
 Voris V2422 (2X) (3,5,9,10,14,15)
 Voris V2441 (2X) (1,5,6,7,9,10,17)
 Voris V2472 (2X) (1,3,7,13)
 Voris V2481 (Sp.) (5)