

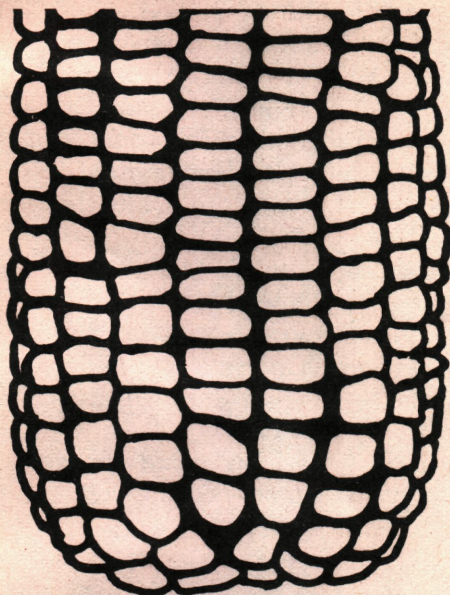
MSU Extension Publication Archive

Archive copy of publication, do not use for current recommendations. Up-to-date information about many topics can be obtained from your local Extension office.

Michigan Corn Production Hybrids Compared
Michigan State University Extension Service
E.C. Rossman, Keith Dysinger, Mervin Chamberlain, R.H. Leep, Crop Science
Issued January 1982
32 pages

The PDF file was provided courtesy of the Michigan State University Library

Scroll down to view the publication.



Michigan Corn Production

HYBRIDS COMPARED 1982

Cooperative Extension Service
Michigan State University

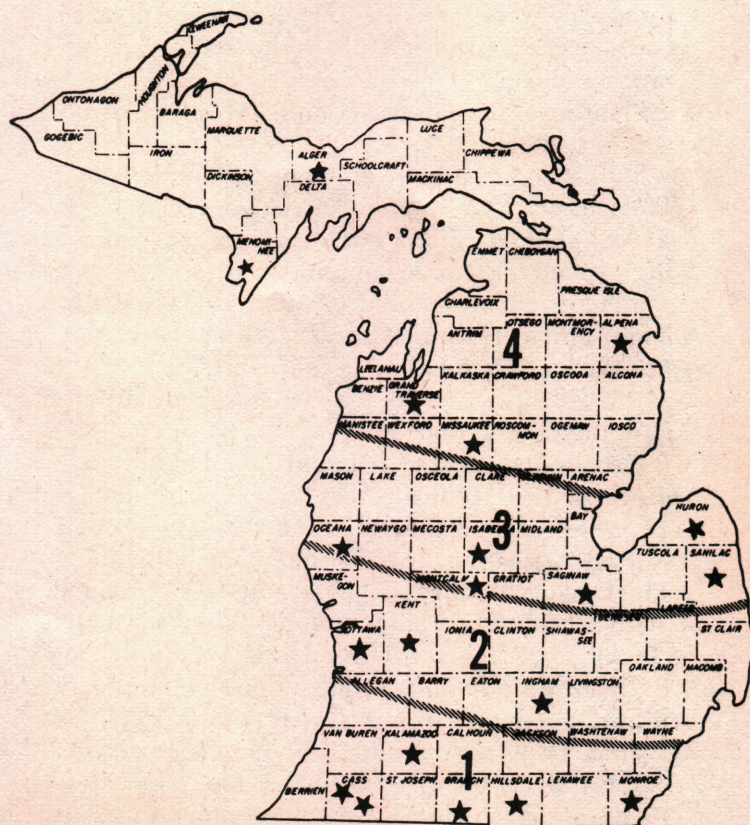
By: E. C. Rossman, Keith Dysinger, Mervin Chamberlain and R. H. Leep

Authors are, respectively, Professor, Research Technician, Research Aide and Assistant Professor of Crop and Soil Sciences.

HYBRID CORN TRIALS are conducted each year by the Michigan Experiment Station in cooperation with the Cooperative Extension Service, 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 can be 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 1981 trials produced 32 bushels more corn per acre than the average of 403 hybrids tested and 63 bushels more than the lowest yield hybrids tested (Table A). The respective yields were 148, 116, and 85 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 10% less moisture than the wettest hybrids tested. Stalk breakage averaged 28%, 8% and 1% for hybrids with highest, average and lowest amounts of stalk lodging.



Corn Maturity Zones and Locations (★) of Trials

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.

Table 26 presents an index of all hybrids entered in the 1981 trials. 403 hybrids were tested as 2,328 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.

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 all 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 May 1 and May 23.

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 County 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 (15,300 to 27,200) 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 12 of the 17 locations. When averaged for all locations, 19,400 average plant population produced 14, 3 and 14 bushels more than populations of 15,300, 23,100

and 27,200, respectively. Moisture content of grain averaged 1% to 3% more for the highest populations. There was a marked trend toward increased stalk lodging as plant population was increased.

Heavy rains and some flooding in May and June affected some stands. Moisture stress occurred in late July and August, typical of most years in Michigan. Excessive rain in late September and most of October increased stalk lodging, slowed grain dry-down and delayed harvest. Most corn matured before killing frosts.

The Michigan Crop Reporting Service estimates that 3.2 million acres were planted to corn, 8% more than 1980 and a new state record corn acreage. Of this, 2.8 million acres were harvested for grain and the rest for silage. The average yield is estimated at 93 bushels per acre with a total crop of 260.4 million bushels, 5% above 1980. Record high state averages of 95 bushels per acre were produced in 1980 and 1979.

HOW TO USE THIS BULLETIN

One-, two- and three-year averages are presented for all hybrids tested during 1981, 1980 and 1979.

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

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

The most effective practice to reduce losses from stalk rot is to harvest as soon as possible after maturity. Stalk breakage continues to increase rapidly in warm, damp weather when harvest is delayed. Early-maturing hybrids that mature in September

will have more stalk breakage than later-maturing hybrids harvested in November and December. There may be little or no advantage to planting early maturing hybrids if harvest is delayed.

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

TO AVOID MOLDY CORN IN 1982

The following recommendations will help avoid moldy corn in 1982:

1. Plant early.
2. Plant early to medium-early maturing hybrids.

3. Harvest early — during October. Weather problems and harvest losses increase with later harvest.
4. Plan for adequate artificial drying. Drying in the field and in the crib is slow and undependable in Michigan. Ready access to drying facilities will permit more timely harvest with less harvest loss and more corn profits.

SEED SUPPLIES FOR 1982

Adequate supplies of high quality seed for most corn hybrids are available for 1982 planting. Some hybrids are in short supply.

Table A

AVERAGE, HIGHEST AND LOWEST MOISTURE CONTENT,
GRAIN YIELD, AND STALK LODGING AT 19 LOCATIONS
IN 1981

Location - County	No. of Hybrids	% Moisture			Bushels Per Acre			% Stalk Lodging		
		Average	Highest	Lowest	Average	Highest	Lowest	Average	Highest	Lowest
Monroe	127	23.2	30.9	17.2	135.0	167.2	100.3	5.1	24.8	0.0
Hillsdale	117	24.6	30.0	20.6	125.1	154.5	92.4	4.3	12.7	0.0
Branch	120	29.1	34.2	22.9	133.7	170.4	97.2	1.7	7.1	0.0
Kalamazoo	101	27.0	31.7	22.6	113.6	143.6	86.1	8.1	43.2	1.4
Cass-upland irrigated	131	22.3	26.5	18.5	155.6	207.6	120.6	7.1	18.5	1.4
Cass-muck soil	82	22.5	29.3	19.5	108.4	142.1	74.6	8.7	28.2	0.8
Kent	108	23.2	28.1	20.5	132.0	159.8	100.1	6.2	17.6	0.7
Ottawa	71	24.8	31.3	21.3	109.1	134.0	83.0	15.5	51.0	3.0
Ingham	141	29.2	35.2	23.5	131.7	170.4	89.1	8.4	37.0	0.0
Sanilac	96	29.4	36.3	23.5	125.5	153.4	90.1	1.3	12.3	0.0
Saginaw	113	30.0	34.7	23.8	146.5	178.8	104.7	4.9	24.8	0.0
Huron	120	27.2	35.3	21.7	110.3	147.9	68.0	8.9	70.4	0.0
Isabella	92	25.6	32.5	19.7	110.2	136.0	86.0	3.5	13.0	0.0
Montcalm-irrigated	90	24.5	32.3	20.2	115.4	140.6	85.0	5.9	17.8	0.7
Montcalm-not irrigated	90	24.5	32.3	20.2	87.4	111.4	62.2	8.6	36.7	0.0
Oceana	50	20.9	24.6	18.1	110.3	138.2	74.9	14.5	31.0	3.5
Grand Traverse	54	25.3	32.3	19.5	84.2	109.1	70.3	7.9	17.2	0.0
Alpena	50	29.1	22.7	35.4	93.0	115.9	79.3	8.3	22.5	1.4
Menominee	55	32.3	44.8	21.6	78.0	129.5	44.5	16.0	40.0	1.0
Average		26.0	31.8	21.6	116.1	147.9	84.7	7.6	27.7	0.7

Table B

AVERAGE GRAIN YIELD, % MOISTURE AND STALK LODGING
AT FOUR PLANT POPULATIONS FOR 17 LOCATIONS IN 1981

Location -County	Bushels Per Acre				% Moisture in Grain				% Stalk Lodging			
	15,300	19,400	23,100	27,200	15,300	19,400	23,100	27,200	15,300	19,400	23,100	27,200
Monroe	138	155	156	147	23	24	24	25	3	10	17	16
Hillsdale	136	148	144	141	24	26	27	27	3	4	9	12
Branch	142	160	163	151	29	29	30	31	1	2	5	6
Kalamazoo	110	129	122	117	27	28	28	30	2	6	10	17
Cass-upland irrigated	148	167	176	162	23	23	23	24	6	10	14	19
Cass-muck soil	107	119	112	101	24	24	25	25	4	14	19	28
Kent	130	144	141	133	24	25	24	25	4	8	9	17
Ottawa	104	122	115	103	25	26	26	28	10	16	24	30
Ingham	130	151	156	138	27	29	30	31	4	7	13	17
Sanilac	127	142	137	130	30	30	31	32	2	4	9	11
Saginaw	141	160	162	143	27	28	30	30	5	7	12	20
Huron	123	136	130	121	25	27	28	28	6	6	11	21
Isabella	116	127	119	109	27	27	27	28	2	5	8	8
Montcalm-irrigated	122	132	130	119	25	26	27	28	6	8	13	16
Montcalm-not irrigated	93	102	94	86	25	25	27	27	6	11	18	25
Oceana	116	127	119	113	21	22	22	24	4	12	19	22
Grand Traverse	91	98	92	82	25	27	28	28	3	6	11	12
Average	122	136	133	122	25	26	27	28	4	8	13	17

Table 1

SOUTHERN MICHIGAN
Monroe County Trial
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	yr.	3	1981	yr.	3	1981	yr.	3
Dairyland DX1096 (2X)	17.3	---	---	112.2	---	---	6.1	---	---
Andersons SSA (2X)	18.4	18	---	100.8	97	---	2.9	12	---
Rupp XR1490 (2X)	18.5	18	---	107.2	100	---	3.8	10	---
Payco SX620 (2X)	18.7	---	---	126.9	---	---	4.2	---	---
Payco SX637 (2X)	18.7	19	---	100.3	114	---	18.7	19	---
Rupp XR1591 (2X)	18.9	19	---	132.9	116	---	2.2	3	---
Funk G-4256 (3X)	19.0	---	---	135.5	---	---	5.7	---	---
Custom CFS 2004 (2X)	19.2	---	---	132.1	---	---	7.4	---	---
Pioneer 3901 (2X)	19.4	19	20	122.1	119	116	0.0	4	3
Payco SX619 (2X)	19.7	---	---	106.2	---	---	5.3	---	---
Amcorn ZX5500 (2X)	19.8	20	---	136.0	135	---	7.0	7	---
Funk G-4224 (MSX)	19.9	---	---	122.3	---	---	6.5	---	---
Leader SX480A (2X)	20.0	20	---	132.9	131	---	12.9	16	---
Leader SX475 (2X)	20.0	---	---	141.8	---	---	4.9	---	---
Pioneer 3780 (2X)	20.2	20	21	151.3	136	129	5.6	7	5
Garno S-94 (2X)	20.3	19	---	140.8	125	---	8.3	7	---
Andersons SSX (2X)	20.3	21	21	130.2	121	128	12.7	7	5
Low LSX117 (2X)	20.3	---	---	134.0	---	---	3.7	---	---
Stauffer Seeds S5602 (2X)	20.7	---	---	141.8	---	---	2.1	---	---
Payco SX611 (2X)	20.7	---	---	143.6	---	---	6.1	---	---
Andersons SSE (2X)	20.7	20	21	119.0	122	128	24.8	21	15
*Garno S99 (2X)	20.9	21	---	149.4	137	---	3.4	6	---
Hyland HL-3456 (2X)	20.9	---	---	135.5	---	---	24.8	---	---
Lynks LX4075 (2X)	21.1	---	---	118.9	---	---	3.6	---	---
Custom CFS 1450 (2X)	21.1	---	---	135.3	---	---	8.4	---	---
Funk G-4315 (MSX)	21.2	21	---	125.2	126	---	4.4	8	---
Hyland HL-2784 (2X)	21.3	---	---	144.6	---	---	4.5	---	---
Gargill 862 (2X)	21.4	---	---	104.4	---	---	13.3	---	---
Gries 420A (2X)	21.6	---	---	115.8	---	---	4.4	---	---
DeKalb XL25A (2X)	21.6	20	21	117.1	124	125	5.2	5	3
Andersons SSM (2X)	21.7	21	22	130.6	132	135	11.3	9	6
Migro HP-360 (2X)	21.7	---	---	105.4	---	---	6.7	---	---
Northrup King PX37 (2X)	21.7	21	---	116.3	132	---	4.0	10	---
Dairyland DX1007B (2X)	21.7	21	22	125.7	132	128	4.2	4	4
*Super Crost 2396 (2X)	21.8	23	---	155.7	141	---	3.0	2	---
*Great Lakes GL-552 (2X)	21.9	22	22	149.6	146	142	2.2	2	1
Super Crost 2350 (2X)	22.0	21	22	117.9	124	122	7.3	7	5
Pro Seed PS225 (2X)	22.0	22	---	136.5	140	---	1.5	5	---
Super Crost 81060 (2X)	22.1	---	---	138.1	---	---	5.1	---	---
Pioneer 3572 (2X)	22.2	22	---	142.7	140	---	0.0	0	---
Golden Harvest H-2440 (2X)	22.2	---	---	135.1	---	---	2.9	---	---
Farmers 224A (2X)	22.2	21	---	141.4	136	---	7.2	9	---
*Pioneer 3744 (2X)	22.3	---	---	151.0	---	---	3.6	---	---
Northrup King PX39 (2X)	22.4	21	---	140.4	144	---	7.4	5	---
Leader SX490 (2X)	22.5	---	---	144.1	---	---	6.3	---	---
ACCO Paymaster UC2990 (2X)	22.5	---	---	134.6	---	---	2.1	---	---
*Pioneer 3535 (2X)	22.5	23	23	160.4	160	151	0.7	2	1
Migro HP-277 (2X)	22.6	---	---	119.0	---	---	4.3	---	---
Low LSX222 (2X)	22.6	22	22	136.5	128	124	5.7	7	5
Pride 4488 (2X)	22.6	22	22	128.4	129	131	7.1	5	3
Rupp XR1624 (2X)	22.6	22	---	129.9	115	---	3.5	7	---
*DeKalb XL55A (2X)	22.7	23	23	163.4	153	146	3.4	5	5
Amcorn SP9000 (2X)	22.8	22	---	134.0	134	---	0.8	2	---
Funks G-4323 (MSX)	22.8	22	22	135.7	138	132	7.7	6	4
DeKalb XL30A (2X)	22.8	---	---	139.8	---	---	5.5	---	---
O's Gold 1170A (2X)	22.9	---	---	141.2	---	---	5.5	---	---
Great Lakes GL522 (2X)	22.9	---	---	138.2	---	---	1.6	---	---
Garno S-100 (2X)	22.9	22	23	141.9	140	137	11.3	10	7
Lynks LX4100 (2X)	23.0	---	---	120.8	---	---	1.5	---	---
Northrup King PX9454 (2X)	23.0	---	---	126.5	---	---	8.9	---	---
Low LSX217 (2X)	23.1	22	23	130.8	133	127	8.1	7	5
Stauffer Seeds S5260 (2X)	23.2	---	---	125.6	---	---	5.3	---	---
Leader SX510 (2X)	23.2	22	---	141.3	144	---	10.7	9	---
Voris V2441 (2X)	23.3	22	---	119.3	126	---	4.3	5	---
ACCO Paymaster X94790 (2X)	23.4	---	---	119.0	---	---	0.8	---	---
*Dairyland DX1007 (2X)	23.5	23	23	162.5	140	136	3.8	4	4
Migro M-2022X (2X)	23.5	22	23	131.2	123	124	7.2	7	6
*Pioneer 3541 (2X)	23.5	23	24	153.6	142	141	1.5	4	3
*Great Lakes S922 (2X)	23.6	23	23	159.0	154	148	0.8	2	2
Amcorn ZX6500 (2X)	23.7	22	---	133.2	122	---	4.1	8	---
Trojan T1000 (2X)	23.7	---	---	125.3	---	---	3.6	---	---
Rupp XR1625 (2X)	23.8	23	23	125.8	127	134	16.1	12	9
Gargill 872 (2X)	23.9	---	---	139.5	---	---	8.8	---	---
P.A.G. SX249 (2X)	23.9	23	23	127.4	125	122	6.7	5	4
*Garno S-102 (2X)	24.0	---	---	153.4	---	---	2.2	---	---
Farmers 4780 (2X)	24.0	---	---	116.3	---	---	9.8	---	---
*Northrup King PX59 (2X)	24.1	23	23	156.6	153	147	5.1	7	6
*Stauffer Seeds S6389 (2X)	24.1	---	---	149.6	---	---	1.4	---	---
*Hyland HL-2850 (2X)	24.1	---	---	150.3	---	---	5.1	---	---
ACCO Paymaster UC4660 (2X)	24.3	---	---	131.6	---	---	2.9	---	---
Leader SX500A (2X)	24.5	23	---	129.0	125	---	5.1	5	---
*Trojan T1100 (2X)	24.7	---	---	167.2	---	---	2.2	---	---
Pride 6611 (2X)	24.7	---	---	133.2	---	---	5.6	---	---
P.A.G. SX397 (2X)	24.8	---	---	142.6	---	---	6.5	---	---
Leader SX495 (2X)	24.8	---	---	134.2	---	---	4.4	---	---
Golden Harvest H-2445 (MSX)	24.9	---	---	144.9	---	---	4.5	---	---
Payco SX788 (2X)	24.9	---	---	113.9	---	---	6.8	---	---
Custom CFS 6007 (2X)	24.9	---	---	147.6	---	---	5.1	---	---
Golden Harvest H-2448 (2X)	24.9	---	---	147.6	---	---	4.3	---	---
Super Crost 3177 (2X)	24.9	24	---	131.3	126	---	4.3	4	---

(continued)

Table 1 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	yr.	3	1981	yr.	3	1981	yr.	3
Migro HP-401 (2X)	25.0	---	---	136.9	---	---	2.9	---	---
*Hyland HL-2823 (2X)	25.1	---	---	154.2	---	---	3.6	---	---
Payco SX844 (2X)	25.2	22	23	133.2	129	131	5.1	3	3
Gries X600 (2X)	25.3	---	---	125.4	---	---	4.3	---	---
Lynks LX4210 (2X)	25.4	---	---	133.9	---	---	1.4	---	---
Super Crost 2790 (2X)	25.5	---	---	134.1	---	---	1.6	---	---
*Andersons SSL (2X)	25.6	24	26	150.5	146	136	2.9	5	4
*Asgrow EX777 (2X)	25.7	25	---	160.4	142	---	9.9	6	---
Dairyland DX1012 (2X)	25.8	---	---	136.2	---	---	2.7	---	---
Lynks LX4315 (2X)	25.9	---	---	145.8	---	---	2.8	---	---
Rupp XR1690 (2X)	26.0	24	---	139.0	128	---	3.7	4	---
Payco SX756 (2X)	26.2	24	---	118.6	120	---	4.8	5	---
Rupp XR1780 (2X)	26.3	25	---	144.1	143	---	3.7	5	---
Lynks LX4305 (2X)	26.4	---	---	132.8	---	---	2.8	---	---
Hyland HL-2880 (2X)	26.5	---	---	142.1	---	---	4.4	---	---
Stauffer Seeds B606 (2X)	26.6	24	24	131.4	138	137	3.8	4	4
*Low LSX317 (2X)	26.6	26	---	159.0	147	---	2.0	1	---
Voris V2491 (2X)	26.7	---	---	139.5	---	---	4.8	---	---
*Funk G-4507 (2X)	26.7	26	26	160.9	147	148	4.4	4	3
*Leader SX555 (2X)	26.8	---	---	160.5	---	---	2.7	---	---
Golden Harvest H-2499 (2X)	27.0	---	---	137.8	---	---	5.2	---	---
DeKalb XL56 (2X)	27.3	---	---	122.8	---	---	1.5	---	---
Dairyland DX1016 (2X)	27.3	24	---	126.3	123	---	11.8	10	---
Leader SX575 (2X)	27.4	26	---	123.6	117	---	4.3	5	---
Leader SX575 (2X)	27.6	---	---	131.3	---	---	0.0	---	---
Custom CFS W4000 (2X)	27.8	---	---	147.7	---	---	4.9	---	---
Golden Harvest H-2535 (2X)	27.9	---	---	138.3	---	---	3.0	---	---
*Migro HP-470 (2X)	28.0	25	---	149.8	154	---	4.2	3	---
Stauffer Seeds S6595A (2X)	28.1	---	---	126.3	---	---	4.6	---	---
O's Gold 6882 (2X)	28.1	---	---	148.9	---	---	1.4	---	---
Payco SX860 (2X)	28.4	---	---	133.3	---	---	2.1	---	---
*O's Gold 5500A (2X)	28.6	26	---	165.4	157	---	2.1	2	---
*Payco SX990 (2X)	29.4	---	---	152.2	---	---	1.4	---	---
*Voris V2521 (2X)	29.5	---	---	151.0	---	---	0.8	---	---
Leader SX610 (2X)	29.6	27	---	140.3	142	---	4.6	7	---
Golden Harvest H-2500 (2X)	29.7	28	27	139.5	137	139	4.2	5	4
*Leader SX630 (2X)	30.9	---	---	157.6	---	---	3.5	---	---
Average	23.2	22	23	135.0	133	134	5.1	6	5
Range	17.2	18	20	100.3	97	116	0.0	0	1
	to	to	to	to	to	to	to	to	to
	30.9	28	27	167.2	160	151	24.8	21	15
Least Significant Difference	1.6	0.9	0.7	14.4	7	5	---	---	---

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 23	May 5	May 9
Harvested	November 11	October 29	November 20
Soil Type	Blount Silty clay loam	Pewamo clay loam	Pewamo clay loam
Previous Crop	Corn	Corn	Corn
Population	21,100	20,900	20,500
Rows	30"	30"	30"
Fertilizer	150-130-223	150-102-150	201-189-189
Soil Test:	6.3	6.9	6.1
pH	212 (very high)	209 (very high)	305 (very high)
P	284 (high)	447 (very high)	442 (very high)
K			

Farm Cooperator: Onville Montri, LaSalle

County Extension Director: Paul Nevel, Monroe

Table 2

SOUTHERN MICHIGAN
Hillsdale County Trial
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	yr.	3	1981	yr.	3	1981	yr.	3

Table 2 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
Lowe LSX117 (2X)	22.1	---	---	114.0	---	---	2.9	---	---
Pioneer 3901 (2X)	22.1	22	23	110.9	109	117	1.4	2	2
Gutwein 2210 (2X)	22.3	23	---	121.0	120	---	5.7	4	---
Leader SX490 (2X)	22.3	---	---	121.7	---	---	2.8	---	---
Amcorn PSX3100 (2X)	22.5	---	---	114.1	---	---	0.7	---	---
Dairyland DX1008 (2X)	22.8	24	25	127.3	129	126	6.3	3	6
*Great Lakes GL477 (2X)	23.0	24	---	139.9	144	---	1.6	2	---
Great Lakes 80103 (2X)	23.0	---	---	122.0	---	---	3.6	---	---
Payco SX619 (2X)	23.1	---	---	126.2	---	---	7.5	---	---
Pride 5525 (2X)	23.2	26	28	128.2	141	143	5.0	3	2
Super Crost 81060 (2X)	23.4	---	---	102.6	---	---	11.5	---	---
ACCO Paymaster UC2990 (2X)	23.4	---	---	133.4	---	---	4.1	---	---
Cargill 436 (3X)	23.4	23	---	133.5	134	---	6.1	4	---
Decatur 252 (3X)	23.5	---	---	99.7	---	---	4.2	---	---
Cargill 872 (2X)	23.5	24	26	122.5	126	123	5.6	4	4
Lowe LSX217 (2X)	23.5	---	---	98.7	---	---	2.9	---	---
Super Crost 2396 (2X)	23.5	25	---	134.1	137	---	6.3	4	---
Cargill 862 (2X)	23.5	---	---	118.5	---	---	12.7	---	---
Trojan T1000 (2X)	23.5	---	---	102.1	---	---	1.4	---	---
Super Crost 2410 (2X)	23.6	---	---	124.7	---	---	2.3	---	---
Super Crost 2350 (2X)	23.6	24	25	122.1	112	123	3.5	2	5
Andersons SSM (2X)	23.7	24	26	119.7	131	139	8.7	9	8
*Stauffer Seeds B606 (2X)	23.7	24	26	151.5	151	151	4.3	4	3
Andersons SSX (2X)	23.7	24	26	120.1	137	132	5.7	4	3
Funk G-4224 (MSX)	23.7	---	---	115.2	---	---	5.0	---	---
Select 3222 (2X)	23.7	---	---	116.1	---	---	3.7	---	---
Beck's 40X (2X)	23.8	---	---	121.4	---	---	0.7	---	---
Stauffer Seeds S6389 (2X)	23.8	---	---	119.5	---	---	2.9	---	---
Payco SX756 (2X)	23.8	25	---	136.8	137	---	3.9	3	---
Leader SX510 (2X)	23.8	24	---	121.6	138	---	6.6	5	---
Migro HP-360 (2X)	23.9	---	---	113.5	---	---	4.0	---	---
Golden Harvest H-2440 (2X)	23.9	---	---	120.8	---	---	8.1	---	---
DeKalb XL30A (2X)	23.9	---	---	125.0	---	---	5.5	---	---
Stauffer Seeds S5602 (2X)	23.9	---	---	119.1	---	---	1.4	---	---
Great Lakes 80128 (2X)	24.0	---	---	119.3	---	---	1.4	---	---
*Great Lakes GL-552 (2X)	24.0	24	26	141.6	147	145	1.5	2	2
Payco SX788 (2X)	24.0	---	---	113.5	---	---	4.9	---	---
Lowe LSX237 (2X)	24.0	---	---	110.2	---	---	4.8	---	---
Select 3300 (2X)	24.1	25	26	114.6	128	133	2.1	1	1
Stauffer Seeds S5260 (2X)	24.1	---	---	129.3	---	---	3.1	---	---
*Pride 5511 (2X)	24.1	---	---	139.3	---	---	2.4	---	---
Hyland HL-2784 (2X)	24.2	---	---	137.6	---	---	2.1	---	---
Pioneer 3572 (2X)	24.3	24	---	133.9	144	---	3.7	2	---
Lowe LSX222 (2X)	24.3	---	---	109.0	---	---	8.8	---	---
ACCO Paymaster UC4660 (2X)	24.3	24	---	139.4	145	---	0.7	1	---
Rupp XR1624 (2X)	24.5	24	---	127.1	123	---	0.0	1	---
Leader SX495 (2X)	24.5	---	---	132.8	---	---	0.8	---	---
*Stauffer Seeds B606MX (2X)	24.5	---	---	150.7	---	---	2.9	---	---
Amcorn PSX7480 (2X)	24.6	25	26	117.6	134	133	5.8	4	4
*Garno S-100 (2X)	24.6	24	26	138.6	144	144	5.2	3	2
Super Crost 2790 (2X)	24.6	---	---	120.5	---	---	0.7	---	---
*Migro HP-470 (2X)	24.7	26	---	141.7	152	---	2.9	2	---
Pride 4488 (2X)	24.7	25	---	120.7	133	---	3.4	2	---
Select 4700 (2X)	24.8	25	---	127.5	131	---	3.5	2	---
Farmers 224A (2X)	24.8	25	---	121.5	120	---	7.5	7	---
Wolverine WL74A (2X)	24.8	---	---	127.5	---	---	6.9	---	---
Farmers 4780 (2X)	24.8	---	---	111.0	---	---	2.1	---	---
Golden Harvest H-2448 (2X)	24.8	25	26	126.5	131	135	1.4	1	1
Gutwein 46B (2X)	24.8	24	---	129.9	142	---	0.7	1	---
*Great Lakes 5922 (2X)	24.9	25	26	142.4	151	150	3.0	2	1
Leader SX555 (2X)	25.0	---	---	129.3	---	---	9.8	---	---
Migro M-2018X (2X)	25.0	24	---	127.6	139	---	2.2	3	---
Super Crost 3177 (2X)	25.0	26	26	126.1	128	145	3.6	3	2
Great Lakes 80119 (2X)	25.0	---	---	115.3	---	---	6.6	---	---
DeKalb XL32A (2X)	25.2	---	---	148.9	---	---	2.3	---	---
Migro HP-401 (2X)	25.3	---	---	114.3	---	---	8.9	---	---
Decatur SX2570 (2X)	25.3	---	---	129.8	---	---	1.5	---	---
P.A.G. SX397 (2X)	25.3	26	---	134.8	135	---	7.0	6	---
*Garno S-102 (2X)	25.3	---	---	141.5	---	---	4.9	---	---
*Amcorn SP9000 (Sp.)	25.5	25	---	145.7	135	---	6.1	3	---
*DeKalb XL55A (2X)	25.6	26	26	146.5	153	153	3.8	3	2
Gutwein 2440 (2X)	25.6	---	---	137.5	---	---	4.8	---	---
Payco SX844 (2X)	25.6	25	---	124.6	132	---	3.0	2	---
Pioneer 3541 (2X)	25.6	26	28	128.3	140	133	5.3	4	3
Golden Harvest Exp. 436 (2X)	25.6	---	---	121.8	---	---	3.6	---	---
Asgrow RX777 (2X)	25.7	26	---	128.7	135	---	3.4	3	---
Pride 6611 (2X)	25.7	---	---	114.7	---	---	4.1	---	---
Rupp XR1690 (2X)	25.8	26	---	119.9	129	---	3.5	2	---
Dairyland DX1007 (2X)	25.9	---	---	135.2	---	---	6.8	---	---
Golden Harvest H-2499 (2X)	26.2	---	---	135.1	---	---	3.6	---	---
Funk G-4323 (MSX)	26.3	25	26	136.3	145	141	3.5	2	1
Payco SX860 (2X)	26.5	---	---	135.2	---	---	0.7	---	---
Becks 60X (2X)	27.1	---	---	136.5	---	---	0.0	---	---
*Cargill 924 (2X)	27.3	---	---	151.3	---	---	3.5	---	---
*Rupp XR1780 (2X)	27.4	28	---	139.2	155	---	0.0	3	---
Great Lakes GL-592 (2X)	27.4	---	---	122.1	---	---	0.8	---	---
Gutwein 2610 (2X)	27.4	27	---	113.5	134	---	1.5	2	---
Leader SX575 (2X)	27.5	---	---	127.0	---	---	6.2	---	---
*Pioneer 3535 (2X)	27.6	27	28	152.0	154	147	3.6	2	1
Rupp XR1625 (2X)	27.7	26	27	128.8	137	134	4.8	4	3

(continued)

Table 2 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
Trojan T1100 (2X)	27.8	---	---	124.0	---	---	0.0	---	---
Dairyland DX1012 (2X)	27.8	28	---	113.0	135	---	1.5	2	---
*Cargill 921 (2X)	27.9	29	---	154.5	163	---	0.8	1	---
Pride 7715 (2X)	28.1	29	30	126.2	140	142	0.0	0	0
Leader SX610 (2X)	28.2	28	---	111.0	137	---	4.3	3	---
DeKalb XL56 (2X)	28.3	---	---	122.2	---	---	4.9	---	---
Dairyland DX1016 (2X)	28.7	28	30	122.1	143	139	0.8	1	1
Golden Harvest H-2500 (2X)	29.0	29	30	122.4	135	135	5.0	3	3
*Leader SX630 (2X)	29.2	---	---	145.1	---	---	2.2	---	---
Payco SX990 (2X)	29.2	---	---	132.3	---	---	2.8	---	---
Andersons SSL (2X)	29.3	29	30	132.1	144	145	1.0	1	1
*Migro M-0505 (2X)	30.0	30	31	152.9	163	159	4.9	4	3
Average	24.6	25	26	125.1	135	137	4.3	3	3
Range	20.6	21	23	92.4	102	117	0.0	1	1
	30.0	30	31	154.5	163	159	12.7	9	8
Least Significant Difference	1.5	0.9	0.7	13.2	8	5	---	---	---

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 9	May 6	May 16
Harvested	October 27	October 28	November 5
Soil Type	Sibewa-Matherton Loam	Sibewa-Matherton Loam	Sibewa-Matherton Loam
Previous Crop	Corn	Corn	Corn
Population	21,100	21,400	21,000
Rows	30"	30"	30"
Fertilizer	180-80-190	150-80-80	158-108-108
Soil Test: pH	6.1	6.7	6.8
P	74 (high)	48 (medium)	118 (very high)
K	312 (very high)	252 (high)	387 (very 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 - 1981, 1980, 1979

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Gold Tag 1090 (2X)	22.9	---	---	112.2	---	---	4.4	---	---
Gold Tag 1064 (MSX)	23.0	---	---	99.2	---	---	7.1	---	---
Garno S-95Y (2X)	24.0	22	---	124.9	131	---	3.4	4	---
Amcorn PSX3100 (2X)	24.1	---	---	105.8	---	---	5.4	---	---
Migro HP-277 (2X)	24.1	---	---	130.2	---	---	0.7	---	---
Pioneer 3901 (2X)	24.5	22	22	106.9	95	99	3.4	4	4
Andersons SSA (2X)	24.5	21	---	97.2	89	---	6.3	8	---
Payco SX555 (2X)	24.6	---	---	105.7	---	---	6.9	---	---
Payco SX620 (2X)	24.9	---	---	126.8	---	---	1.4	---	---
Andersons SSE (2X)	24.9	22	23	119.0	109	123	1.5	4	4
Pioneer 3780 (2X)	25.0	22	23	119.8	119	124	1.3	2	2
Pioneer 3744 (2X)	25.3	---	---	134.1	---	---	2.1	---	---
Rupp XR1490 (2X)	25.5	---	---	108.3	---	---	2.1	---	---
Funk G-4256 (3X)	25.9	---	---	114.9	---	---	0.7	---	---
Garno S-99 (2X)	26.1	23	---	122.8	129	---	1.4	2	---
Rupp XR1591 (2X)	26.2	23	---	128.9	119	---	0.8	3	---
Trojan T1000 (2X)	26.4	---	---	120.9	---	---	2.1	---	---
Super Crost 81060 (2X)	26.4	---	---	119.0	---	---	2.1	---	---
Super Crost 2350 (2X)	26.4	23	24	118.0	118	125	4.4	4	4
Decatur 219 (3X)	26.7	---	---	99.2	---	---	4.0	---	---
Andersons SSM (2X)	26.9	23	25	117.4	118	131	2.0	4	4
*Funk G-4323 (MSX)	27.0	24	---	148.8	137	---	0.7	2	---
Gold Tag 2006 (2X)	27.1	24	---	126.0	119	---	2.3	2	---
Decatur SX 2414 (2X)	27.1	---	---	113.2	---	---	2.2	---	---
Dairyland DX1007B (2X)	27.2	---	---	125.1	---	---	3.5	---	---
*Northrup King PK39 (2X)	27.2	24	---	149.2	145	---	1.4	1	---
Payco SX611 (2X)	27.4	---	---	102.1	---	---	2.3	---	---
Great Lakes GL-477 (2X)	27.5	24	---	140.4	143	---	3.2	3	---
Farmers 224A (2X)	27.5	24	---	135.7	126	---	2.2	6	---
Lynks LX4210 (2X)	27.5	---	---	140.8	---	---	2.2	---	---
Great Lakes 80103 (2X)	27.5	---	---	140.3	---	---	2.1	---	---
Stauffer Seeds S5602 (2X)	27.7	---	---	133.2	---	---	3.0	---	---
Super Crost 2396 (2X)	27.7	24	---	140.7	135	---	0.7	2	---
Leader SX495 (2X)	27.7	---	---	117.7	---	---	0.7	---	---
Renk RK24 (2X)	27.7	---	---	124.4	---	---	0.7	---	---
Rupp XR1625 (2X)	27.7	24	26	135.3	132	137	0.7	1	1
Lynks LX4075 (2X)	27.8	---	---	104.6	---	---	3.1	---	---
*Super Crost 2790 (2X)	27.9	---	---	148.2	---	---	1.4	---	---
DeKalb KL25A (2X)	28.0	25	25	130.1	127	131	0.0	1	1
Farm Bureau FB-3330 (MSX)	28.0	25	25	138.9	128	126	1.4	2	4

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Lynks LX 4100 (2X)	28.0	---	---	136.8	---	---	1.6	--	--
Migro HP-401 (2X)	28.3	---	---	125.9	---	---	6.1	--	--
Garno S-100 (2X)	28.3	25	26	130.5	135	137	3.5	4	3
Pride 4488 (2X)	28.3	---	---	123.7	---	---	2.9	--	--
Golden Harvest H-2445 (MSX)	28.4	25	---	134.4	143	---	0.7	2	---
Parker 32 (2X)	28.5	---	---	131.7	---	---	3.6	--	--
Farmers 4780 (2X)	28.5	---	---	110.8	---	---	1.7	--	--
Golden Harvest H-2440 (2X)	28.6	---	---	131.4	---	---	0.7	--	--
*ACCO Paymaster UC4660 (2X)	28.6	---	---	149.2	---	---	0.9	--	--
Leader SX510 (2X)	28.6	24	---	128.3	122	---	2.2	2	---
Rupp XR1624 (2X)	28.6	24	---	131.8	113	---	1.5	8	---
Golden Harvest H-2448 (2X)	28.6	26	---	134.5	137	---	0.7	1	---
Payco SX756 (2X)	28.8	---	---	134.2	---	---	1.4	--	--
*DeKalb XL55A (2X)	28.8	26	27	153.3	150	152	1.4	4	3
Stauffer Seeds B606WX (2X)	28.8	---	---	144.6	---	---	2.8	--	--
Gold Tag 2060 (MSX)	28.9	26	27	125.4	134	131	0.0	2	2
Stauffer Seeds B606 (2X)	28.9	24	26	136.9	143	143	0.7	1	1
Great Lakes GL-552 (2X)	28.9	25	26	137.9	138	141	0.8	2	2
Garno S-102 (2X)	28.9	---	---	134.8	---	---	1.5	--	--
Voris V2472 (2X)	28.9	25	27	131.0	131	133	1.4	1	1
Great Lakes 5922 (2X)	29.0	25	26	146.1	154	155	0.9	2	2
DeKalb XL32A (2X)	29.0	25	26	130.7	133	134	0.7	1	2
Decatur SX2570 (2X)	29.1	---	---	141.2	---	---	2.1	--	--
Migro HP-360 (2X)	29.2	---	---	124.1	---	---	0.0	--	--
Voris V2441 (2X)	29.2	---	---	118.1	---	---	0.0	--	--
Pioneer 3572 (2X)	29.2	25	---	135.4	137	---	0.0	1	--
Renk RK66 (2X)	29.4	25	26	134.2	134	138	0.7	2	2
Dairyland DX1007 (2X)	29.4	---	---	140.8	---	---	0.7	--	--
Amcorn PSX7480 (2X)	29.4	25	26	134.2	137	143	0.7	1	1
Lynks LX4305 (2X)	29.5	---	---	125.8	---	---	2.9	--	--
Pride 6611 (2X)	29.6	25	---	128.6	139	---	2.9	2	---
Amcorn SP9000 (Sp.)	29.7	25	---	133.9	120	---	0.0	2	---
*P.A.G. SX397 (2X)	29.7	26	27	154.8	134	---	0.7	5	---
*Outwein 69B (2X)	29.8	26	---	149.8	142	137	2.1	3	5
Northrup King PX 9454 (2X)	29.8	---	---	146.5	---	---	0.7	--	--
*Select 3300 (2X)	29.8	26	26	160.8	146	151	3.6	3	2
O's Gold 1107 (2X)	29.9	25	---	122.0	128	---	1.0	2	---
Custom CFS W3610 (2X)	29.9	---	---	126.4	---	---	2.4	--	--
Rupp XR1690 (2X)	29.9	26	---	122.6	118	---	3.5	5	---
Migro HP-23R (2X)	29.9	26	26	110.0	130	135	1.0	2	2
*Leader SX555 (2X)	30.0	---	---	155.8	---	---	1.4	--	--
P.A.G. SX249 (2X)	30.0	---	---	134.6	---	---	2.8	--	--
Payco SX844 (2X)	30.0	---	---	119.3	---	---	0.7	--	--
Select 4700 (2X)	30.2	27	---	143.8	146	---	1.4	1	---
*Pioneer 3535 (2X)	30.3	26	27	163.7	155	150	2.1	1	1
*ACCO Paymaster X94790 (2X)	30.5	---	---	157.6	---	---	2.1	--	--
Custom CFS 6007 (2X)	30.6	26	---	123.8	135	---	0.0	1	---
*O's Gold 6882 (2X)	30.7	---	---	162.3	---	---	1.4	--	--
*Northrup King PX74 (2X)	30.8	28	29	163.0	162	160	1.4	1	1

8

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
*Significantly better than average yield in 1981.									
	1981			1980			1979		
Planted	May 22			May 9			May 22		
Harvested	October 28			October 30			November 2		
Soil Type	Gilford sandy loam			Gilford sandy loam			Gilford sandy loam		
Previous Crop	Corn			Corn			Corn		
Population	20,700			20,800			21,200		
Rows	30"			30"			30"		
Fertilizer	185-64-0			185-64-0			185-64-0		
Soil Test:	pH			7.7			7.7		
	P			288 (very high)			309 (very high)		
	K			372 (high)			556 (very high)		
Farm Cooperator: George Matthews, Union City									
County Extension Director: Ray Fast, Coldwater									
Table 4 SOUTHERN MICHIGAN Kalamazoo County Trial Zone 1									
One, Two, Three Year Averages - 1981, 1980, 1979									
Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk Lodging		
	1981	2 yr	3 yr	1981	2 yr	3 yr	1981	2 yr	3 yr
Payco SX620 (2X)	22.6	---	---	93.7	---	---	8.1	--	--
Payco SX619 (2X)	22.8	---	---	97.3	---	---	12.5	--	--
Amcorn PSX3100 (2X)	22.9	---	---	111.5	---	---	11.8	--	--
Wyffels W17	23.6	---	---	88.6	---	---	13.3	--	--
Funk G-4224 (MSX)	23.6	22	---	113.4	119	---	19.1	12	---
Garno S90 (2X)	23.7	22	23	96.1	114	108	9.2	7	5
Stauffer Seeds S4402 (2X)	23.9	---	---	104.6	---	---	8.8	--	---
Custom CFS 4004 (2X)	24.2	---	---	109.3	---	---	9.8	--	---
Pioneer 3744 (2X)	24.2	---	---	119.1	---	---	7.1	--	---
Pioneer 3901 (2X)	24.3	22	23	97.7	117	112	9.1	6	4
Payco SX637 (2X)	24.3	23	23	86.4	109	105	43.2	26	18
Rupp XRL190 (2X)	24.4	22	---	114.9	113	---	3.1	4	---
Migro HP-277 (2X)	24.4	---	---	107.3	---	---	8.5	--	---
Wolverine W166 (2X)	24.5	23	25	94.4	117	112	21.6	13	9
P.A.G. SX181 (2X)	24.8	23	---	87.1	109	---	8.2	4	---
*Agrow RX511 (2X)	24.9	---	---	126.7	---	---	8.0	--	---
Rupp XRL151 (2X)	25.0	23	---	107.8	107	---	10.7	8	---
Pride 4461 (2X)	25.1	---	---	107.1	---	---	2.8	--	---
Funk G-4256 (3X)	25.2	---	---	112.0	---	---	12.1	---	---
Pioneer 3780 (2X)	25.3	23	25	111.3	122	115	9.3	6	5
Wolverine W168 (2X)	25.3	---	---	99.7	---	---	7.0	--	---
Wyffels W19	25.3	---	---	104.4	---	---	13.0	--	---
Super Crost 81060 (2X)	25.4	---	---	86.1	---	---	22.0	--	---
Cargill 862 (2X)	25.7	---	---	106.2	---	---	15.3	--	---
Pioneer 3572 (2X)	25.7	24	---	116.2	124	---	8.4	5	---
Great Lakes GL-477 (2X)	25.8	24	---	123.0	137	---	8.7	6	---
Garno S95Y (2X)	25.9	23	---	102.4	120	---	8.7	9	---
Dairyland DX1004 (2X)	25.9	---	---	109.6	---	---	15.4	--	---
Golden Harvest H-2440 (2X)	25.9	---	---	119.3	---	---	6.7	--	---
DeKalb XL30A (2X)	26.0	---	---	113.3	---	---	3.6	--	---
*Payco SX788 (2X)	26.1	---	---	133.1	---	---	6.7	--	---
Payco SX611 (2X)	26.1	---	---	92.6	---	---	5.5	--	---
Golden Harvest H-2445 (MSX)	26.2	24	27	98.9	118	111	6.3	7	5
Super Crost 2396 (2X)	26.2	24	---	102.6	127	---	3.5	2	---
ACCO Paymaster UC2990 (2X)	26.2	---	---	117.2	---	---	11.8	--	---
Payco SX756 (2X)	26.2	24	---	89.8	107	---	13.0	12	---
Beck's 49X (									

(continued)

Table 4 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Migro M-2018X (2X)	27.2	25	26	119.4	133	130	3.9	3	2
Super Crost 2350 (2X)	27.2	24	26	107.1	119	114	7.9	6	4
Pioneer 3535 (2X)	27.3	26	27	121.0	136	124	1.4	1	1
Stauffer Seeds B606WX (2X)	27.3	25	---	119.0	133	---	11.2	8	---
Select 3222 (2X)	27.3	---	---	124.2	---	---	8.2	---	---
*Great Lakes GL-552 (2X)	27.4	25	26	130.7	143	136	3.5	2	1
Dairyland DX1008 (2X)	27.4	---	---	114.7	---	---	12.6	---	---
Stauffer Seeds S5260 (2X)	27.4	---	---	105.3	---	---	2.2	---	---
Cargill 872 (2X)	27.5	25	---	117.3	130	---	16.7	10	---
Funk G-4323 (MSX)	27.5	25	26	118.4	126	119	8.1	5	3
Stauffer Seeds B606 (2X)	27.6	25	---	114.0	136	---	4.4	4	---
Amcorn SP9000 (Sp.)	27.7	25	---	122.7	134	---	3.5	3	---
Trojan T1000 (2X)	27.8	---	---	112.3	---	---	7.9	---	---
*Garno S-100 (2X)	27.8	25	27	137.1	146	132	7.8	4	3
*Great Lakes 5922 (2X)	27.9	25	27	130.8	148	141	8.6	5	3
*Rupp XRI625 (2X)	27.9	---	---	126.9	---	---	4.4	---	---
O's Gold Exp. 24501 (2X)	28.0	---	---	111.3	---	---	7.6	---	---
*Amcorn PSX7480 (2X)	28.0	25	26	126.8	136	130	4.3	3	2
Kaltenberg KX68 (2X)	28.2	---	---	111.2	---	---	3.6	---	---
*Pioneer 3541 (2X)	28.4	26	27	126.9	147	137	5.0	4	3
Select 4700 (2X)	28.4	26	---	107.6	131	---	11.6	7	---
Payco SX844 (2X)	28.5	25	25	125.5	136	127	5.8	4	3
ACCO Paymaster X94790 (2X)	28.5	---	---	111.1	---	---	6.7	---	---
Rupp XRI690 (2X)	28.6	---	---	112.3	---	---	5.8	---	---
Migro HP-401 (2X)	28.7	---	---	121.0	---	---	4.4	---	---
*Garno S-102 (2X)	29.1	---	---	134.7	---	---	4.3	---	---
Super Crost 3177 (2X)	29.1	26	---	108.4	119	---	4.3	6	---
*Kaltenberg KX73 (2X)	29.2	---	---	130.0	---	---	7.0	---	---
Custom CFS W4000 (2X)	29.5	---	---	111.0	---	---	8.1	---	---
Beck's 60X (2X)	29.7	---	---	107.4	---	---	6.3	---	---
P.A.G. SX397 (2X)	30.3	27	---	114.5	141	---	9.0	5	---
Payco SX990 (2X)	30.8	---	---	103.5	---	---	14.9	---	---
*Custom CFS 6007 (2X)	30.8	27	---	133.0	144	---	2.8	2	---
Rupp XRI780 (2X)	31.1	---	---	124.9	---	---	2.1	---	---
Trojan T1100 (2X)	31.4	---	---	117.1	---	---	4.1	---	---
Custom CFS W5410 (2X)	31.5	---	---	113.6	---	---	7.0	---	---
DeKalb XL56 (2X)	31.6	---	---	111.0	---	---	6.2	---	---
*O's Gold 6882 (2X)	31.6	---	---	143.6	---	---	4.9	---	---
Migro HP-470 (2X)	31.6	28	---	115.0	131	---	8.4	5	---
Dairyland DX1012 (2X)	31.7	---	---	114.9	---	---	2.9	---	---
Payco SX860 (2X)	31.7	---	---	117.5	---	---	9.2	---	---
Average	27.0	25	26	113.6	128	123	8.1	6	4
Range	22.6	22	23	86.1	107	105	1.4	1	1
	31.7	28	27	143.6	151	141	43.2	26	18
Least Significant Difference	1.8	1.2	0.7	12.8	8	5	---	---	---

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 19	May 8	May 11
Harvested	October 30	October 31	November 11
Soil Type	Kalamazoo loam	Kalamazoo loam	Kalamazoo loam
Previous Crop	Corn	Wheat and red clover	Corn
Population	21,500	21,100	20,200
Rows	30"	30"	30"
Fertilizer	101-45-122	108-32-16 + Zn	112-48-106
Soil Test: pH	5.8	6.8	5.8
P	68 (high)	140 (very high)	92 (high)
K	196 (medium)	275 (high)	328 (very high)

Farm Cooperator: Richard VanVranken, Climax

County Extension Agent: Richard Bailey, Kalamazoo

Table 5

SOUTHERN MICHIGAN
Case County Trial - Irrigated Upland Soil
One, Two, Three Year Averages - 1981, 1980, 1979

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Lowe LSX117 (2X)	18.5	---	---	123.0	---	---	2.2	---	---
Gold Tag 1064 (MSX)	18.5	---	---	120.6	---	---	10.4	---	---
Rupp XRI490 (2X)	19.0	19	---	139.3	130	---	3.5	3	---
Golden Harvest Exp. 745 (MSX)	19.0	---	---	143.8	---	---	2.9	---	---
Gold Tag 1090 (2X)	19.2	21	---	145.1	141	---	9.5	7	---
Cargill 834 (2X)	19.2	---	---	122.2	---	---	14.6	---	---
Decatur SX1212 (2X)	19.3	---	---	123.1	---	---	13.4	---	---
Rupp XRI591 (2X)	19.6	20	---	144.7	135	---	7.6	6	---
Amcorn ZX5500 (2X)	19.6	21	---	158.1	153	---	12.8	8	---
Agrow RX511 (2X)	19.7	20	---	133.4	135	---	18.1	16	---
Parker 29 (2X)	19.9	21	---	150.0	136	---	18.5	13	---
Cargill 862 (2X)	19.9	---	---	130.5	---	---	10.9	---	---
Lynks LX4075 (2X)	20.2	---	---	126.4	---	---	5.0	---	---
Golden Harvest H-2440 (2X)	20.2	---	---	154.4	---	---	3.2	---	---
Dairyland DX1003 (2X)	20.2	---	---	141.7	---	---	10.4	---	---

(continued)

Table 5 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Garno S-94 (2X)	20.4	21	---	136.2	151	---	6.0	7	---
Stauffer Seeds S5606 (2X)	20.5	---	---	126.2	---	---	8.5	---	---
Funk G-4224 (MSX)	20.6	---	---	128.6	---	---	11.8	---	---
Pioneer 3780 (2X)	20.6	22	22	143.3	155	154	6.4	5	8
Rupp XRI624 (2X)	20.6	22	---	155.7	144	---	5.1	3	---
Garno S-99 (2X)	20.6	21	---	141.8	135	---	9.2	9	---
Select 3222 (2X)	20.8	---	---	127.8	---	---	9.8	---	---
Gold Tag 2006 (2X)	20.8	22	---	144.9	152	---	10.9	7	---
Migro HP-277 (2X)	20.9	---	---	131.9	---	---	4.0	---	---
Amcorn ZX6500 (2X)	21.1	22	---	141.4	151	---	7.0	6	---
P.A.G. SX181 (2X)	21.1	22	---	122.6	133	---	7.7	6	---
Cargill 436 (3X)	21.2	22	---	149.4	143	---	13.5	9	---
Beck's 45X (2X)	21.2	---	---	153.6	---	---	7.1	---	---
Beck's 40X (2X)	21.2	---	---	168.3	---	---	3.5	---	---
Renk RK24 (2X)	21.3	---	---	147.2	---	---	9.5	---	---
ACCO Paymaster UC2990 (2X)	21.3	---	---	154.7	---	---	14.1	---	---
Dairyland DX1008 (2X)	21.3	23	23	142.1	138	135	7.0	6	7
Funk G-4315 (MSX)	21.4	22	22	150.4	142	144	13.7	10	13
Decatur 252 (3X)	21.4	---	---	135.8	---	---	7.9	---	---
Custom CFS 1400 (2X)	21.5	23	---	143.2	149	---	5.8	3	---
Super Crost 2410 (2X)	21.5	---	---	133.4	---	---	7.2	---	---
*Pioneer 3572 (2X)	21.5	23	---	174.7	184	---	1.4	1	---
Decatur SX2570 (2X)	21.6	---	---	151.2	---	---	2.9	---	---
Trojan T1000 (2X)	21.6	---	---	140.0	---	---	8.8	---	---
Prairie Stream SX33 (2X)	21.6	23	23	158.4	163	161	8.0	6	6
Lowe LSX217 (2X)	21.6	23	23	160.3	159	161	6.9	5	4
DeKalb XL36 (2X)	21.6	---	---	160.5	---	---	6.4	---	---
Gutwein 46B (2X)	21.8	22	---	166.4	151	---	7.6	5	---
Pioneer 3744 (2X)	21.8	---	---	144.7	---	---	2.8	---	---
Farmers 4780 (2X)	21.8	---	---	151.0	---	---	5.0	---	---
Great Lakes 80128 (2X)	21.9	---	---	156.2	---	---	4.7	---	---
Gutwein 2210 (2X)	21.9	---	---	124.5	---	---	14.1	---	---
Stauffer Seeds S6389 (2X)	21.9	---	---	166.1	---	---	6.3	---	---
Lowe LSX222 (2X)	21.9	23	24	142.5	150	151	11.6	7	6
Cargill 872 (2X)	21.9	23	23	151.6	172	164	5.9	7	6
Great Lakes GL-477 (2X)	21.9	22	---	168.1	171	---	7.8	5	---
Custom CFS 1450 (2X)	22.0	23	---	163.2	163	---	7.3	4	---
O's Gold 6880 (2X)	22.0	---	---	149.6	---	---	7.1	---	---
*Migro M-2022X (2X)	22.0	23	24	182.0	173	163	5.0	4	5
Lynks LX4210 (2X)	22.0	---	---	152.8	---	---	1.4	---	---
DeKalb XL23 (2X)	22.2	---	---	132.6	---	---	11.2	---	---
Lynks LX4100 (2X)	22.2	---	---	131.2	---	---	5.6	---	---
*Northrup King PK39 (2X)	22.3	23	---	194.7	179	---	5.4	5	---
*Voris V2441 (2X)	22.3	23	23	170.9	169	166	5.1	4	4
Funk G-4323 (MSX)	22.3	22	23	160.4	155	155	8.1	6	4
*Dairyland DX1007 (2X)	22.3	---	---	186.0	---	---	4.1	---	---
*Great Lakes GL-552 (2X)	22.3	23	23	173.9	168	168	4.3	3	3
Super Crost 3177 (2X)	22.3	23	---	126.9	141	---	15.4	10	---
Stauffer Seeds B606 (2X)	22.4	23	23	160.0	161	158	10.9	6	5
Select 3300 (2X)	22.4	23	---	151.6	158	---	7.6	5	---
*Select 4700 (2X)	22.4	24	24	176.2	171	160	2.1	3	4
Stauffer Seeds B606WX (2X)	22.4	---	---	158.2	---	---	8.5	---	---
Farmers 224A (2X)	22.4	---	---	147.5	---	---	10.1	---	---
*Super Crost 2790 (2X)	22.4	---	---	170.6	---	---	7.3	---	---
O's Gold Exp. 24501 (2X)	22.5	---	---	162.7	---	---	6.8	---	---
Super Crost 81060 (2X)	22.5	---	---	124.5	---	---	17.6	---	---
Voris V2472 (2X)	22.5	---	---	160.7	---	---	2.8	---	---
Payco SX788 (2X)	22.5	---	---	158.8	---	---	6.2	---	---
*Garno S-100 (2X)	22.5	23	23	176.8	170	166	4.8	3	4
Stauffer Seeds S5260 (2X)	22.6	---	---	154.1	---	---	1.4	---	---
P.A.G. SX249 (2X)	22.6	---	---	161.4	---	---	6.8	---	---
Farm Bureau FB-3440 (2X)	22.9	23	24	148.8	146	146	4.5	4	4
Northrup King PK9454 (2X)	22.9	---	---	154.8	---	---	9.0	---	---
Golden Harvest H-2448 (2X)	23.0	23	24	155.5	154	153	2.3	3	3
Gutwein 2440 (2X)	23.0	---	---	154.4	---	---	9.0	---	---
Rupp XRI690 (2X)	23.1	24	---	154.2	148	---	5.1	4	---
Renks RK66 (2X)	23.1	23	23	167.9	156	160	9.5	6	6
Gold Tag 2060 (MSX)	23.1	23	---	158.8	163	---	6.4	4	---
Migro HP-401 (2X)	23.1	---	---	142.3	---	---	1.5	---	---
Hyland HL-2784 (2X)	23.1	23	23	163.9	150	150	10.1	7	7
Leader SX555 (2X)	23.1	---	---	162.6	---	---	11.1	---	---
Custom CFS 6007 (2X)	23.2	24	---	164.0	160	---	12.3	7	---
*Great Lakes S922 (2X)	23.2	24	24	176.9	181	176	7.1	4	4
*Pioneer 3535 (2X)	23.3	25	25	177.7	185	176	5.9	3	2
*Custom CFS W5410 (2X)	23.3	---	---	181.5	---	---	5.7	---	---
Migro HP-360 (2X)	23.4	---	---	140.3	---	---	4.4	---	---
Pioneer 3541 (2X)	23.4	25	25	167.7	163	162	9.1	5	6
Dairyland DX1012 (2X)	23.4	---	---	158.8	---	---	3.6	---	---
Rupp RRI625 (2X)	23.5	23	23	164.3	160	161	8.6	5	5
Great Lakes 80119 (2X)	23.6	---	---	168.0	---	---	2.8	---	---
Payco SX844 (2X)	23.6	---	---	160.3	---	---	2.1	---	---
*DeKalb LX55A (2X)	23.7	24	25	177.2	185	174	6.9	5	6
*P.A.G. SX277 (2X)	23.8	25	25	181.6	180	176	6.2	5	5
Lowe LSX317 (2X)	23.9	25	---	165.7	171	---	6.0	3	---
*P.A.G. SX397 (2X)	23.9	24	25	173.8	178	172	8.7	5	5
*Migro HP-470 (2X)	24.1	26	---	185.6	174	---	6.8	5	---
*Garno S-102 (2X)	24.1	---	---	170.9	---	---	6.2	---	---
*Stauffer Seeds S6595A (2X)	24.1	---	---	173.1	---	---	7.7	---	---
Lynks LX4305 (2X)	24.1	---	---	137.2	---	---	10.3	---	---
Leader SX610 (2X)	24.2	---	---	158.5	---	---	4.3	---	---

Table 5 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Great Lakes GL-592 (2X)	24.3	---	---	160.8	---	---	7.5	---	---
Cargill 924 (2X)	24.3	---	---	160.2	---	---	7.7	---	---
O's Gold 6882 (2X)	24.5	---	---	163.9	---	---	6.3	---	---
Gold Tag 3006 (2X)	24.6	---	---	166.7	---	---	3.8	---	---
Prairie Stream SX50A (2X)	24.7	25	---	160.9	161	---	2.1	2	---
Lynks LX4315 (2X)	24.7	---	---	159.2	---	---	3.5	---	---
DeKalb XL56 (2X)	24.8	---	---	153.4	---	---	5.8	---	---
Gutwein 2610 (2X)	24.8	26	---	151.5	156	---	6.7	4	---
Parker 60A (2X)	24.9	---	---	156.3	---	---	3.4	---	---
Prairie Stream SX50 (2X)	25.0	26	---	142.9	160	---	10.1	6	---
Beck's 60X (2X)	25.0	---	---	156.2	---	---	4.9	---	---
*Vorix V2491 (2X)	25.3	---	---	170.8	---	---	3.6	---	---
Rupp XR1780 (2X)	25.3	26	---	167.0	163	---	3.6	3	---
Trojan T1100 (2X)	25.3	---	---	169.1	---	---	5.1	---	---
*Golden Harvest H-2500 (2X)	25.4	26	26	185.6	175	172	2.2	1	1
*Cargill 921 (2X)	25.5	26	---	194.4	177	---	4.3	3	---
Funk G-4435 (MSX)	25.6	26	---	157.2	154	---	7.1	5	---
Payco SX860 (2X)	25.6	---	---	157.7	---	---	5.1	---	---
*Custom CFS W4000 (2X)	25.6	---	---	178.9	---	---	3.6	---	---
*Funk G-4507 (2X)	25.7	26	26	207.6	188	172	4.9	4	3
*Select 5100 (2X)	25.7	27	---	192.0	186	---	3.4	2	---
*Select 4800 (2X)	25.7	---	---	183.3	---	---	2.8	---	---
*Payco SX990 (2X)	25.8	---	---	186.3	---	---	5.8	---	---
*Northrup King X6710 (2X)	26.0	---	---	202.9	---	---	3.0	---	---
Renk RK77 (2X)	26.4	27	26	163.5	164	159	4.3	2	3
*Northrup King PX74 (2X)	26.5	27	27	184.3	175	165	7.9	4	4
Average	22.3	23	24	155.6	160	161	7.1	5	5
Range	18.5 to 26.5	19 to 27	22 to 27	120.6 to 207.6	130 to 188	135 to 176	1.4 to 18.5	1 to 16	1 to 13
Least Significant Difference	1.3	0.7	0.6	14.9	8	6	---	---	---

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 19	May 5	May 18
Harvested	November 2	October 3	November 8
Soil Type	Oshemo sandy loam	Oshemo sandy loam	Oshemo sandy loam
Previous Crop	Corn	Corn	Corn
Population	23,200	23,500	23,100
Rows	28"	28"	28"
Fertilizer	268-60-135 + 2n	273-76-102	277-84-108
Irrigation	6 inches	6 inches	7 inches
Soil Test: pH	6.8	6.7	6.2
P	241 (very high)	260 (very high)	243 (very high)
K	352 (very high)	411 (very high)	411 (very high)

Farm Cooperator: Dave Cripe, Cassopolis

County Extension Agent: G. Wayne Hothem, Cassopolis

Table 6

SOUTHERN MICHIGAN
Cass County Trial - Muck Soil
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Stauffer Seeds S2202 (2X)	19.5	---	---	77.5	---	---	21.2	---	---
Golden Harvest H-2239 (MSX)	19.5	19	---	74.6	75	---	19.3	19	---
Dairyland DX1003 (2X)	19.5	---	---	96.0	---	---	9.1	---	---
Vorix V2331 (2X)	19.6	---	---	103.2	---	---	5.6	---	---
Renk RK18 (2X)	19.7	19	---	95.2	101	---	4.6	8	---
Cargill 834 (2X)	19.8	---	---	81.0	---	---	28.2	---	---
Stauffer Seeds S4402 (2X)	19.9	---	---	105.8	---	---	6.1	---	---
Amcorn ZX4500 (2X)	19.9	---	---	87.9	---	---	10.3	---	---
Lynks LX4075 (2X)	19.9	---	---	94.9	---	---	3.1	---	---
Payco SX620 (2X)	20.4	---	---	117.7	---	---	12.3	---	---
Golden Harvest Exp. 745 (2X)	20.5	---	---	97.4	---	---	2.2	---	---
*Migro HP-277 (2X)	20.5	---	---	123.2	---	---	5.0	---	---
Pioneer 3901 (2X)	20.5	20	21	96.5	98	95	4.9	7	6
Golden Harvest H-2340 (2X)	20.6	20	21	87.4	81	78	3.5	8	7
*Pioneer 3744 (2X)	20.6	---	---	126.1	---	---	5.8	---	---
P.A.G. SX181 (2X)	20.7	21	22	98.3	97	91	9.5	11	9
Payco SX619 (2X)	20.7	---	---	83.2	---	---	7.4	---	---
Rupp XR1490 (2X)	20.7	20	---	77.8	82	---	15.3	15	---
Cargill 862 (2X)	20.9	---	---	109.1	---	---	8.5	---	---
Funk G-4141A (2X)	21.1	21	22	92.0	95	86	12.6	12	12
*Dairyland DX1004 (2X)	21.2	---	---	122.5	---	---	7.5	---	---
Funk G-4315 (MSX)	21.2	---	---	116.6	---	---	7.9	---	---
Funk Exp. 29097 (2X)	21.2	---	---	114.5	---	---	6.5	---	---
Beck's 40X (2X)	21.3	---	---	104.7	---	---	11.3	---	---
*Super Crost 2396 (2X)	21.5	22	---	137.1	127	---	9.9	15	---
Dairyland DX1096 (2X)	21.5	---	---	92.7	---	---	11.8	---	---
Dairyland DX1008 (2X)	21.6	---	---	113.8	---	---	13.7	---	---
Vorix V2472 (2X)	21.6	---	---	116.2	---	---	5.8	---	---
Vorix V2381 (2X)	21.6	---	---	108.1	---	---	19.7	---	---
*Pride 4461 (2X)	21.6	---	---	142.1	---	---	4.1	---	---

Table 6 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Asgrow RX511 (2X)	21.6	21	---	101.1	98	---	13.8	22	---
ACCO Paymaster UC2990 (2X)	21.7	---	---	82.1	---	---	16.4	---	---
Pioneer 3780 (2X)	21.8	22	22	115.8	110	109	10.5	13	11
*Cargill 872 (2X)	21.8	22	23	133.7	122	106	7.6	8	5
Rupp XR1591 (2X)	21.8	21	---	106.1	98	---	6.6	7	---
*Pride 4488 (2X)	21.9	23	23	136.2	135	119	7.8	7	6
*Amcorn ZX5500 (2X)	22.0	21	---	133.0	121	---	4.1	9	---
Migro M-2022X (2X)	22.1	22	23	93.5	106	97	2.3	6	4
*Cargill 436 (3X)	22.2	22	---	120.6	112	---	14.8	13	---
*Great Lakes GL-477 (2X)	22.2	22	---	121.2	129	---	8.0	10	---
Funk G-4323 (MSX)	22.2	22	22	108.0	113	107	4.5	9	7
*Great Lakes GL-552 (2X)	22.2	---	---	130.1	---	---	10.1	---	---
Lynks LX4100 (2X)	22.2	---	---	104.3	---	---	9.4	---	---
Super Crost 81060 (2X)	22.3	---	---	117.7	---	---	7.9	---	---
*Rupp XR1625 (2X)	22.3	---	---	138.9	---	---	4.5	---	---
P.A.G. SX189 (2X)	22.4	23	23	86.9	83	79	10.6	18	15
*Pioneer 3541 (2X)	22.4	21	---	121.1	120	113	3.8	5	3
*Renks RK24 (2X)	22.4	---	---	123.1	---	---	7.4	---	---
Payco SX555 (2X)	22.5	---	---	90.0	---	---	8.6	---	---
DeKalb LX32A (2X)	22.5	---	---	117.3	---	---	9.8	---	---
*Stauffer Seeds S6389 (2X)	22.5	---	---	128.1	---	---	3.6	---	---
Great Lakes GL-552 (2X)	22.6	23	23	113.6	115	108	0.8	4	3
*Payco SX844 (2X)	22.6	22	22	123.0	120	109	10.8	11	10
Super Crost 2410 (2X)	22.6	---	---	103.1	---	---	5.7	---	---
*O's Gold 1170A (2X)	22.7	---	---	130.2	---	---	2.2	---	---
DeKalb XL36 (2X)	22.7	---	---	114.7	---	---	14.7	---	---
Migro HP-360 (2X)	22.7	---	---	113.0	---	---	5.1	---	---
P.A.G. SX397 (2X)	22.7	23	24	113.6	114	111	4.9	9	8
DeKalb XL23 (2X)	22.8	---	---	119.5	---	---	11.4	---	---
*Great Lakes 5922 (2X)	22.8	23	24	126.0	123	115	9.9	11	8
O's Gold Exp. 24501 (2X)	22.8	---	---	109.6	---	---	2.2	---	---
*Beck's 45X (2X)	23.0	---	---	130.2	---	---	5.0	---	---
Rupp XR1624 (2X)	23.1	23	---	108.3	105	---	11.2	11	---
Funk G-4224 (MSX)	23.3	23	23	105.4	97	91	9.4	10	9
Pioneer 3535 (2X)	23.3	23	24	109.0	117	112	1.5	5	5
Funk G-4256 (3X)	23.7	22	---	100.3	95	---	13.4	13	---
Lynks LX4210 (2X)	23.9	---	---	101.0	---	---	5.2	---	---
Migro HP-401 (2X)	24.0	---	---	113.9	---	---	4.5	---	---
*P.A.G. SX249 (2X)	24.1	23	24	133.4	123	111	9.6	8	7
Stauffer Seeds S5602 (2X)	24.1	---	---	104.9	---	---	7.4	---	---
Lynks LX4305 (2X)	24.5	---	---	113.2	---	---	8.6	---	---
Rupp XR1690 (2X)	24.9	---	---	107.2	---	---	4.2	---	---
Lynks LX4315 (2X)	25.2	---	---	95.1	---	---	21.5	---	---
*Funk G-4435 (MSX)	25.6	25	---	120.8	122	---	4.4	8	---
Payco SX860 (2X)	26.4	---	---	111.7	---	---	7.0	---	---
DeKalb XL56 (2X)	26.7	---	---	109.3	---	---	5.7	---	---
Cargill 924 (2X)	26.8	---	---	118.1	---	---	3.6	---	---
O's Gold 6882 (2X)	26.8	---	---	110.8	---	---	5.0	---	---
Vorix V2491 (2X)	27.9	---	---	108.4	---	---	6.9	---	---
Cargill 921 (2X)	28.7	---	---	97.9	---	---	2.9	---	---
Migro HP-470 (2X)	28.8	27	---	81.5	101	---	1.5	6	---
Rupp XR1780 (2X)	29.3	---	---	93.7	---	---	3.0	---	---
Average	22.5	22	23	108.4	108	103	8.7	10	7
Range	19.5 to 29.3	19 to 27	21 to 24	74.6 to 142.1	75 to 135	78 to 119	0.8 to 28.2	4 to 22	3 to 15
Least Significant Difference	1.4	0.9	0.7	12.0	7	5	---	---	---

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 23	May 24	May 25
Harvested	November 2	November 3	November 8
Soil Type	Houghton muck	Houghton muck	Houghton muck
Previous Crop	Corn	Corn	Corn
Population	21,400	21,500	21,000
Rows	30"	30"	30"
Fertilizer	129-29-104	118-26-60	83-32-76
Soil Test: pH	5.2	5.4	5.5
P	45 (medium)	134 (very high)	172 (very high)
K	733 (very high)	465 (very high)	434 (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
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 2

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
Rupp XR1490 (2X)	20.5	20	---	100.1	106	---	2.5	5	---
Hyland HL-2454 (2X)	20.7	---	---	128.9	---	---	7.7	---	---
Amcorn PSX3100 (2X)	21.2	---	---	129.2	---	---	11.7	---	---
Cargill 834 (2X)	21.2	---	---	125.8	---	---	7.3	---	---
Dairyland DX1004 (2X)	21.2	22	---	130.5	142	---	7.1	6	---
Golden Harvest Exp.745 (MSX)	21.4	---	---	108.1	---	---	6.4	---	---
*Great Lakes GL-455 (2X)	21.5	---	---	151.1	---	---	11.3	---	---
Dairyland DX1096 (2X)	21.5	21	---	115.5	130	---	9.6	6	---
Garno S-95Y (2X)	21.6	22	---	120.3	139	---	8.8	7	---
Dairyland DX1003 (2X)	21.7	22	---	144.5	151	---	3.6	4	---
Pride 4461 (2X)	21.8	---	---	140.3	---	---	3.1	---	---
Trojan T950 (2X)	21.9	---	---	118.4	---	---	4.2	---	---
Payco SX620 (2X)	21.9	---	---	138.6	---	---	4.3	---	---
Lynks LX4075 (2X)	22.0	---	---	114.4	---	---	2.1	---	---
*Custom CFS 4004 (2X)	22.0	---	---	148.4	---	---	1.4	---	---
Pioneer 3901 (2X)	22.0	21	22	120.2	131	122	11.8	7	5
Migro HP-277 (2X)	22.0	---	---	139.7	---	---	5.9	---	---
Hyland HL-2442 (2X)	22.0	22	23	105.2	112	115	7.4	5	4
DeKalb XL25A (2X)	22.1	23	---	115.4	141	---	1.5	1	---
Pioneer 3744 (2X)	22.2	---	---	131.2	---	---	4.3	---	---
Dairyland DX1099 (2X)	22.2	23	23	114.8	118	110	8.7	5	4
*Stauffer Seeds S4800 (2X)	22.3	---	---	159.7	---	---	3.6	---	---
Dairyland DX1002 (2X)	22.3	22	23	117.8	117	114	5.9	8	6
Stauffer Seeds S4402 (2X)	22.3	---	---	139.4	---	---	0.8	---	---
Amcorn ZX5500 (2X)	22.3	22	---	128.4	133	---	4.7	7	---
Wolverine W166 (2X)	22.4	23	23	121.7	137	124	7.5	6	4
Payco SX637 (2X)	22.4	23	---	115.9	136	---	14.3	7	---
Garno S-90 (2X)	22.4	22	22	116.6	124	118	12.5	8	6
Great Lakes GL-422 (2X)	22.4	22	---	122.3	131	---	10.0	6	---
Great Lakes GL-456 (2X)	22.5	---	---	125.8	---	---	12.6	---	---
Payco SX619 (2X)	22.5	---	---	127.2	---	---	17.6	---	---
Gutwein 2210 (2X)	22.6	24	---	125.9	143	---	7.1	4	---
P.A.G. SX181 (2X)	22.7	24	---	112.5	129	---	13.6	9	---
Select 2600 (2X)	22.7	---	---	137.8	---	---	6.8	---	---
Andersons SSA (2X)	22.8	22	---	105.5	114	---	15.5	9	---
Garno S-99 (2X)	22.8	---	---	106.7	---	---	3.5	---	---
Custom CFS W2005 (2X)	22.9	---	---	120.1	---	---	11.1	---	---
Funk G-4224 (MSX)	22.9	---	---	127.6	---	---	4.1	---	---
Super Crost 2350 (2X)	22.9	23	24	113.1	133	120	7.2	4	4
Gutwein 2180 (2X)	23.0	23	---	142.3	138	---	5.6	5	---
Great Lakes GL-466 (2X)	23.0	---	---	137.6	---	---	5.8	---	---
Rupp XR1591 (2X)	23.1	23	---	124.9	132	---	4.3	2	---
Northrup King PX49 (2X)	23.1	24	24	138.8	150	137	11.3	10	7
Payco SX611 (2X)	23.3	---	---	138.2	---	---	7.0	---	---
Pioneer 3780 (2X)	23.3	23	24	127.7	137	132	8.3	6	5
Renk RK24 (2X)	23.4	---	---	118.3	---	---	3.8	---	---
Andersons SSE (2X)	23.5	24	24	119.2	120	111	4.2	5	4
Payco SX756 (2X)	23.5	25	---	134.7	152	---	3.6	3	---
Voris V2411 (2X)	23.6	---	---	131.5	---	---	5.1	---	---
Dairyland DX1008 (2X)	23.7	25	---	139.8	146	---	5.1	6	---
Farm Bureau FB-3330 (MSX)	23.7	---	---	136.8	---	---	0.7	---	---
Stauffer Seeds S5602 (2X)	23.7	---	---	133.2	---	---	9.5	---	---
Great Lakes GL-477 (2X)	23.7	24	---	144.4	157	---	4.2	4	---
Great Lakes GL-522 (2X)	23.8	---	---	137.4	---	---	3.7	---	---
Super Crost 81060 (2X)	23.8	---	---	142.9	---	---	5.1	---	---
Migro HP-360 (2X)	23.9	---	---	111.7	---	---	2.2	---	---
Lynks LX4210 (2X)	23.9	---	---	131.4	---	---	1.5	---	---
ACCO Paymaster UC2990 (2X)	23.9	---	---	140.4	---	---	4.4	---	---
DeKalb XL36 (2X)	24.0	---	---	126.4	---	---	6.8	---	---
Farmers 4780 (2X)	24.0	---	---	123.3	---	---	4.5	---	---
Golden Harvest H-2448 (2X)	24.1	24	25	142.4	157	141	5.9	4	3
Dairyland DX1007B (2X)	24.1	---	---	138.8	---	---	11.1	---	---
Select 3222 (2X)	24.2	---	---	128.8	---	---	4.5	---	---
*Migro M-2018X (2X)	24.2	25	26	151.7	151	128	7.4	4	3
Rupp XR1624 (2X)	24.2	---	---	122.9	---	---	3.6	---	---
Kaltenberg KX61 (2X)	24.2	---	---	123.2	---	---	3.6	---	---
Great Lakes GL-552 (2X)	24.3	24	25	139.8	150	136	0.8	1	1
*Great Lakes 80103 (2X)	24.3	---	---	150.5	---	---	5.6	---	---
*Stauffer Seeds B606 (2X)	24.4	---	---	146.7	---	---	7.6	---	---
*DeKalb XL32A (2X)	24.4	24	---	149.5	155	---	4.8	3	---
*O's Gold 6880 (2X)	24.4	---	---	158.7	---	---	4.3	---	---
Lynks LX4100 (2X)	24.5	---	---	121.5	---	---	2.9	---	---
Pride 4488 (2X)	24.5	25	25	119.1	132	122	1.6	1	1
Farmers 224A (2X)	24.5	---	---	141.7	---	---	7.8	---	---
*Northrup King PX39 (2X)	24.5	25	---	158.0	160	---	6.5	5	---
Kaltenberg KX58 (2X)	24.5	---	---	130.9	---	---	8.6	---	---
Golden Harvest H-2440 (2X)	24.6	---	---	127.3	---	---	4.3	---	---
Funk G-4323 (MSX)	24.6	25	26	138.2	148	128	5.4	3	3
Funk G-4256 (3X)	24.8	24	---	135.9	127	---	4.3	4	---
Amcorn PSX7480 (2X)	24.9	25	25	137.1	147	130	3.0	4	3
Voris V2472 (2X)	24.9	26	---	130.9	139	---	4.9	4	---
*Great Lakes 5922 (2X)	24.9	25	26	148.0	155	135	3.2	3	2
Kaltenberg KX68 (2X)	25.0	---	---	120.5	---	---	9.8	---	---
Super Crost 2410 (2X)	25.0	---	---	140.0	---	---	3.0	---	---
Northrup King PX37 (2X)	25.0	26	26	142.8	154	132	4.1	2	2
Renk RK66 (2X)	25.0	25	25	134.6	145	130	7.7	6	4
Northrup King PX59 (2X)	25.0	26	26	140.1	153	138	13.6	8	5
Leader SX510 (2X)	25.0	25	---	124.7	146	---	3.7	3	---
Trojan T1000 (2X)	25.1	---	---	131.3	---	---	7.4	---	---
*Select 3300 (2X)	25.1	25	---	148.5	158	---	2.8	3	---

(continued)

Table 7 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Hyland HL-2784 (2X)	25.1	---	---	128.6	---	---	9.8	---	---
Leader SX555 (2X)	25.2	---	---	140.6	---	---	3.8	---	---
*Stauffer Seeds B606WX (2X)	25.2	---	---	149.0	---	---	15.1	---	---
*Rupp XR1625 (2X)	25.3	---	---	146.5	---	---	4.4	---	---
Migro HP-401 (2X)	25.3	---	---	139.1	---	---	2.1	---	---
*DeKalb XL55A (2X)	25.4	26	---	147.0	148	---	9.1	7	---
*Custom CFS W3610 (2X)	25.5	---	---	159.8	---	---	7.2	---	---
*Rupp XR1690 (2X)	25.5	---	---	154.2	---	---	7.8	---	---
Andersons SSM (2X)	25.8	26	---	139.8	150	---	15.6	11	---
Payco SX844 (2X)	25.8	25	---	123.7	140	---	9.7	6	---
Northrup King PX9454 (2X)	25.8	---	---	136.1	---	---	4.7	---	---
Custom CFS 6007 (2X)	26.6	---	---	137.6	---	---	5.9	---	---
*Custom CFS W5410 (2X)	26.7	---	---	151.7	---	---	3.0	---	---
Payco SX860 (2X)	27.0	---	---	134.5	---	---	3.7	---	---
*Rupp XR1780 (2X)	27.3	---	---	155.8	---	---	2.2	---	---
Migro HP-470 (2X)	27.5	---	---	145.6	---	---	6.3	---	---
O's Gold 6882 (2X)	27.6	---	---	130.7	---	---	2.9	---	---
Voris V2491 (2X)	28.1	---	---	124.6	---	---	3.5	---	---
Average	23.2	24	24	132.0	139	126	6.2	5	4
Range	20.5 to 28.1	20 to 26	22 to 26	100.1 to 159.8	106 to 160	110 to 141	0.7 to 17.6	1 to 11	1 to 7
Least Significant Difference	1.4	0.9	0.7	14.1	9	6	--	--	--
*Significantly better than average yield in 1981.									
	1981	1980		1980		1979			
Planted	May 7	May 12		May 12		May 19			
Harvested	November 3	November 4		November 4		November 2			
Soil Type	Belville loam	Belville loam		Belville loam		Belville loam			
Previous Crop	Corn	Corn		Corn		Corn			
Population	21,300	21,700		21,700		21,500			
Rows	30"	30"		30"		30"			
Fertilizer	119-82-60	136-69-99		136-69-99		62-62-92			
Soil Test: pH	6.6	7.5		7.5		5.9			
P	347 (very high)	80 (high)		80 (high)		148 (very high)			
K	288 (high)	335 (very high)		335 (very high)		396 (very high)			
Farm Cooperator: Gerald Kayser, Caledonia									
County Extension Agent: Robert Knisely, Grand Rapids									

Table 8

SOUTH CENTRAL MICHIGAN
Ottawa County Trial
One, Two, Three Year Averages -1981, 1980, 1979

Zone 2

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Rupp XR1490 (2X)	21.3	20	---	100.2	95	---	7.5	7	---
Golden Harvest Exp.745 (MSX)	21.4	---	---	105.6	---	---	16.0	---	---
Stauffer Seeds S3242 (2X)	21.5	---	---	101.1	---	---	6.3	---	---
Decatur 285G (3X)	21.6	---	---	85.0	---	---	43.0	---	---
Pioneer 3901 (2X)	22.3	21	23	116.6	111	116	21.0	13	8
Trojan 1950 (2X)	22.5	---	---	104.0	---	---	18.6	---	---
Andersons SSA (2X)	22.5	21	---	83.5	89	---	16.3	12	---
Stauffer Seeds S4402 (2X)	22.5	---	---	94.3	---	---	9.2	---	---
Dairyland DX1002 (2X)	22.6	---	---	102.3	---	---	11.5	---	---
*Great Lakes GL-455 (2X)	22.6	21	---	124.5	127	---	17.0	17	---
Migro HP-277 (2X)	22.6	---	---	112.6	---	---	7.9	---	---
*Pioneer 3744 (2X)	23.0	---	---	125.3	---	---	10.8	---	---
Stauffer Seeds S4800 (2X)	23.0	---	---	94.4	---	---	11.1	---	---
Amcorn ZX5500 (2X)	23.2	21	---	101.0	109	---	21.5	15	---
Dairyland DX1003 (2X)	23.2	21	---	107.5	110	---	12.3	9	---
Rupp XR1591 (2X)	23.3	21	---	114.4	100	---	16.9	10	---
P.A.G. SX181 (2X)	23.3	---	---	104.9	---	---	14.4	---	---
Pioneer 3780 (2X)	23.4	22	24	114.3	116	117	7.2	10	7
*Amcorn ZX4500 (2X)	23.7	---	---	118.7	---	---	16.8	---	---
Dairyland DX1096 (2X)	23.7	---	---	99.4	---	---	33.1	---	---
Garno S-90 (2X)	23.7	22	23	102.4	112	113	37.4	23	15
Great Lakes GL-422 (2X)	23.8	22	---	105.6	113	---	24.4	16	---
Great Lakes GL-466 (2X)	23.9	---	---	114.1	---	---	16.3	---	---
Decatur SXG90 (2X)	23.9	---	---	83.0	---	---	51.0	---	---
*Pride 5525 (2X)	24.0	22	24	126.4	127	124	11.4	10	7
Funk G-4224 (MSX)	24.0	22	---	92.3	98	---	17.4	11	---
Great Lakes GL-456 (2X)	24.2	---	---	105.4	---	---	31.7	---	---
Dairyland DX1004 (2X)	24.3	22	---	113.6	115	---	34.7	29	---
Wolverine W166 (2X)	24.3	---	---	95.3	---	---	28.2	---	---
Super Crost 2350 (2X)	24.4	23	24	109.9	112	113	19.5	12	9
*Farmers 4780 (2X)	24.5	---	---	120.3	---	---	6.6	---	---
Garno S-95Y (2X)	24.6	22	---	102.9	108	---	18.3	18	---
Great Lakes GL-522 (2X)	24.6	---	---	118.1	---	---	15.5	---	---
Amcorn PSX3100 (2X)	24.7	---	---	114.0	---	---	24.8	---	---
*Funk G-4256 (3X)	24.7	22	---	125.3	107	---	6.4	9	---
Andersons SSM (2X)	24.7	23	---	110.0	117	---	18.8	16	---
Great Lakes GL-477 (2X)	24.8	23	---	117.2	132	---	7.2	7	---
*DeKalb XL25A (2X)	24.8	23	---	120.3	115	---	7.9	4	---
Custom CFS 2004 (2X)	24.8	23	---	111.2	114	---	13.3	8	---
*DeKalb XL30A (2X)	24.8	---	---	123.2	---	---	4.1	---	---

Table 8

SOUTH CENTRAL MICHIGAN
Ottawa County Trial
One, Two, Three Year Averages -1981, 1980, 1979

Zone 2

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
		yr.	yr.		yr.	yr.		yr.	yr.
Rupp XR1490 (2X)	21.3	20	---	100.2	95	---	7.5	7	---
Golden Harvest Exp.745 (MSX)	21.4	---	---	105.6	---	---	16.0	---	---
Stauffer Seeds S3242 (2X)	21.5	---	---	101.1	---	---	6.3	---	---
Decatur 285G (3X)	21.6	---	---	85.0	---	---	43.0	---	---
Pioneer 3901 (2X)	22.3	21	23	116.6	111	116	21.0	13	8
Trojan T950 (2X)	22.5	---	---	104.0	---	---	18.6	---	---
Andersons SSA (2X)	22.5	21	---	83.5	89	---	16.3	12	---
Stauffer Seeds S4402 (2X)	22.5	---	---	94.3	---	---	9.2	---	---
Dairyland DX1002 (2X)	22.6	---	---	102.3	---	---	11.5	---	---
*Great Lakes GL-455 (2X)	22.6	21	---	124.5	127	---	17.0	17	---
Migro HP-277 (2X)	22.6	---	---	112.6	---	---	7.9	---	---
*Pioneer 3744 (2X)	23.0	---	---	125.3	---	---	10.8	---	---
Stauffer Seeds S4800 (2X)	23.0	---	---	94.4	---	---	11.1	---	---
Amcorn ZX5500 (2X)	23.2	21	---	101.0	109	---	21.5	15	---
Dairyland DX1003 (2X)	23.2	21	---	107.5	110	---	12.3	9	---
Rupp XR1591 (2X)	23.3	21	---	114.4	100	---	16.9	10	---
P.A.G. SX181 (2X)	23.3	---	---	104.9	---	---	14.4	---	---
Pioneer 3780 (2X)	23.4	22	24	114.3	116	117	7.2	10	7
*Amcorn ZX4500 (2X)	23.7	---	---	118.7	---	---	16.8	---	---
Dairyland DX1096 (2X)	23.7	---	---	99.4	---	---	33.1	---	---
Garno S-90 (2X)	23.7	22	23	102.4	112	113	37.4	23	15
Great Lakes GL-422 (2X)	23.8	22	---	105.6	113	---	24.4	16	---
Great Lakes GL-466 (2X)	23.9	---	---	114.1	---	---	16.3	---	---
Decatur SXG90 (2X)	23.9	---	---	83.0	---	---	51.0	---	---
*Pride 5525 (2X)	24.0	22	24	126.4	127	124	11.4	10	7
Funk G-4224 (MSX)	24.0	22	---	92.3	98	---	17.4	11	---
Great Lakes GL-456 (2X)	24.2	---	---	105.4	---	---	31.7	---	---
Dairyland DX1004 (2X)	24.3	22	---	113.6	115	---	34.7	29	---
Wolverine W166 (2X)	24.3	---	---	95.3	---	---	28.2	---	---
Super Crost 2350 (2X)	24.4	23	24	109.9	112	113	19.5	12	9
*Farmers 4780 (2X)	24.5	---	---	120.3	---	---	6.6	---	---
Garno S-95Y (2X)	24.6	22	---	102.9	108	---	18.3	18	---
Great Lakes GL-522 (2X)	24.6	---	---	118.1	---	---	15.5	---	---
Amcorn PSX3100 (2X)	24.7	---	---	114.0	---	---	24.8	---	---
*Funk G-4256 (3K)	24.7	22	---	125.3	107	---	6.4	9	---
Andersons SSM (2X)	24.7	23	---	110.0	117	---	18.8	16	---
Great Lakes GL-477 (2X)	24.8	23	---	117.2	132	---	7.2	7	---
*DeKalb XL25A (2X)	24.8	23	---	120.3	115	---	7.9	4	---
Custom CFS 2004 (2X)	24.8	23	---	111.2	114	---	13.3	8	---
DeKalb XL30A (2X)	24.8	---	---	123.2	---	---	4.1	---	---

Table 8 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
ACCO Paymaster UC1905 (2X)	24.9	22	---	85.4	92	---	17.3	16	---
*Rupp XR1624 (2X)	25.0	---	---	119.1	---	---	19.7	---	---
Stauffer Seeds S5602 (2X)	25.1	---	---	108.5	---	---	17.8	---	---
*Dairyland DX1007B (2X)	25.2	23	25	127.4	124	124	9.6	9	6
DeKalb XL32A (2X)	25.3	23	---	113.8	123	---	15.2	10	---
*Super Crost 2396 (2X)	25.4	24	---	119.3	121	---	15.5	11	---
ACCO Paymaster UC2990 (2X)	25.5	---	---	113.7	---	---	11.8	---	---
Pride 5511 (2X)	25.5	---	---	116.2	---	---	7.4	---	---
Custom CFS 1400 (2X)	25.6	23	---	110.9	120	---	10.9	7	---
Garno S-99 (2X)	25.7	---	---	99.2	---	---	4.9	---	---
Decatur SX2570 (2X)	25.8	---	---	110.5	---	---	8.9	---	---
*DeKalb XL55A (2X)	25.8	25	---	118.5	132	---	9.4	11	---
*Farmers 224A (2X)	25.9	---	---	118.8	---	---	10.8	---	---
*Great Lakes 5922 (2X)	26.0	24	25	120.9	128	124	4.6	4	3
*Migro M-2018X (2X)	26.3	23	25	127.9	130	121	9.2	8	5
Trojan T1000 (2X)	26.3	---	---	93.9	---	---	10.6	---	---
Rupp XR1625 (2X)	26.4	---	---	115.8	---	---	8.0	---	---
*O's Gold 1111 (2X)	26.4	---	---	134.0	---	---	16.7	---	---
Custom CFS 1450 (2X)	26.6	24	25	111.8	125	125	16.1	9	7
Migro HP-360 (2X)	26.6	---	---	98.6	---	---	4.3	---	---
Super Crost 2410 (2X)	26.7	---	---	111.0	---	---	11.3	---	---
Stauffer Seeds B606 (2X)	26.8	---	---	112.4	---	---	17.9	---	---
Pride 4488 (2X)	26.8	25	26	107.2	114	116	12.3	10	7
Great Lakes GL-552 (2X)	26.8	24	26	115.2	127	121	15.4	15	10
Migro HP-401 (2X)	26.9	---	---	104.4	---	---	12.0	---	---
Funk G-4323 (MSX)	27.0	24	26	101.6	113	112	12.9	12	8
Rupp XR1690 (2X)	27.3	---	---	92.2	---	---	19.7	---	---
Stauffer Seeds B606WX (2X)	27.6	25	---	109.5	117	---	24.4	19	---
Custom CFS 6007 (2X)	28.3	---	---	115.2	---	---	3.0	---	---
Custom CFS W4000 (2X)	29.3	---	---	95.3	---	---	33.1	---	---
Rupp XR1780 (2X)	31.3	---	---	94.6	---	---	6.8	---	---
Average	24.8	23	25	109.1	115	119	15.5	12	8
Range	21.3	20	23	83.0	89	112	3.0	4	3
	to	to	to	to	to	to	to	to	to
	31.3	25	26	134.0	132	125	51.0	29	15
Least Significant Difference	1.5	0.9	0.7	9.2	7	5	---	---	---

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 22	May 17	May 21
Harvested	November 5	November 13	November 21
Soil Type	Gilford and Sebeva loam	Gilford and Sebeva loam	Gilford and Sebeva loam
Previous Crop	Corn	Corn	Corn
Population	20,900	21,000	21,100
Row	30"	30"	30"
Fertilizer	109-34-34	109-34-34	106-24-24
Soil Test:	6.1	6.3	6.0
pH	160 (very high)	122 (very high)	197 (very high)
P	460 (very high)	267 (high)	316 (very high)
K			

Farm Cooperator: Gerald Gewirnk, Allendale

County Extension Director: Lawrence Stebbins, Grand Haven

Table 9

SOUTH CENTRAL MICHIGAN
Ingham County Trial - Grain
One, Two, Three Year Averages - 1981, 1980, 1979

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Payco SX620 (2X)	23.5	---	---	122.9	---	---	5.9	---	---
Super Crost 1466 (2X)	23.7	---	---	93.0	---	---	26.1	---	---
Hyland HL-2454 (2X)	24.1	---	---	115.3	---	---	13.2	---	---
Hyland HL-2428 (2X)	24.1	---	---	89.1	---	---	20.0	---	---
Dairyland DX1096 (2X)	24.4	25	---	115.8	123	---	8.3	4	---
Andersons SSA (2X)	24.4	25	---	93.8	102	---	12.9	7	---
Funk G-4141A (MSX)	24.7	25	25	110.2	111	108	1.6	1	1
Great Lakes GL-422 (2X)	24.8	27	---	113.3	121	---	28.3	15	---
Rupp XR1490 (2X)	24.9	26	---	101.9	101	---	4.7	3	---
Garno S-90 (2X)	25.0	26	25	110.6	118	113	27.4	14	10
Cargill 834 (2X)	25.1	---	---	105.2	---	---	31.4	---	---
Great Lakes GL-456 (2X)	25.4	---	---	97.7	---	---	30.2	---	---
P.A.G. SX181 (2X)	25.7	27	27	113.8	115	120	9.0	5	3
Funk Exp. 29097 (2X)	25.7	---	---	133.2	---	---	14.6	---	---
Hyland HL-2442 (2X)	25.8	26	26	111.9	111	106	14.5	8	6
Golden Harvest Exp.745 (MSX)	25.9	---	---	113.0	---	---	5.1	---	---
McKenzie 409 (2X)	26.0	---	---	94.8	---	---	35.0	---	---
Garno S-94E (2X)	26.1	---	---	124.8	---	---	9.0	---	---
P.A.G. SX189 (2X)	26.2	27	28	89.8	107	108	28.9	15	10
Payco SX619 (2X)	26.2	---	---	115.0	---	---	8.7	---	---

Table 9 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Pioneer 3901 (2X)	26.2	26	27	134.5	133	131	5.7	3	2
Gutwein 2085 (2X)	26.3	---	---	131.8	---	---	4.3	---	---
DeKalb EX1213 (2X)	26.3	---	---	120.6	---	---	5.0	---	---
Payco SX637 (2X)	26.3	27	---	110.5	131	---	37.0	19	---
DeKalb XL13 (2X)	26.3	26	---	102.0	102	---	25.6	14	---
Super Crost 1700 (2X)	26.4	28	---	104.5	109	---	5.8	3	---
Renk RK18 (2X)	26.5	28	---	115.3	129	---	5.6	3	---
Trojan T950 (2X)	26.5	---	---	126.2	---	---	3.5	---	---
Garno S-94 (2X)	26.6	28	---	107.8	119	---	1.5	1	---
Voris V2331 (2X)	26.8	---	---	144.2	---	---	3.8	---	---
Gutwein 2210 (2X)	26.9	29	---	134.9	130	---	2.7	1	---
Funk G-4256 (3X)	27.2	28	---	119.7	117	---	2.8	2	---
*Pioneer 3744 (2X)	27.2	---	---	150.9	---	---	8.1	---	---
Farm Bureau FB-S-315 (2X)	27.2	27	27	103.7	115	114	27.8	14	10
Cargill 862 (2X)	27.4	---	---	111.2	---	---	15.2	---	---
Dairyland DX1008 (2X)	27.5	30	30	136.7	137	140	6.9	4	3
*Asgrow RX511 (2X)	27.5	28	---	147.0	142	---	5.5	3	---
Gutwein 2180 (2X)	27.6	28	---	112.4	115	---	7.8	4	---
Super Crost 81060 (2X)	27.7	---	---	115.8	---	---	16.3	---	---
Great Lakes GL-477 (2X)	27.8	29	---	140.8	158	---	3.0	2	---
*Gries X415 (2X)	28.0	---	---	149.8	---	---	0.7	---	---
Gries 420A (MSX)	28.2	---	---	142.6	---	---	7.4	---	---
Low LSK117 (2X)	28.3	---	---	128.3	---	---	7.1	---	---
*Golden Harvest H-2440 (2X)	28.3	---	---	161.1	---	---	2.7	---	---
Wolverine W166 (2X)	28.4	29	29	110.3	119	121	5.3	3	2
Lynks LX4075 (2X)	28.4	---	---	128.3	---	---	19.4	---	---
*Super Crost 2350 (2X)	28.4	29	29	159.0	150	145	1.4	1	1
Stauffer Seeds S5602 (2X)	28.5	---	---	114.3	---	---	4.4	---	---
Pioneer 3780 (2X)	28.5	29	30	138.8	143	142	8.4	4	3
Garno S-95Y (2X)	28.6	29	---	128.5	138	---	13.8	7	---
*Kaltenberg KX61 (2X)	28.8	29	---	164.7	164	---	3.4	2	---
Rupp XR1624 (2X)	28.8	---	---	143.8	---	---	8.1	---	---
Rupp XR1591 (2X)	28.8	29	---	122.7	121	---	11.3	6	---
Dairyland DX1003 (2X)	28.9	29	---	121.8	123	---	24.4	13	---
Northrup King PX37 (2X)	28.9	30	30	143.7	153	145	3.5	2	1
*ACCO Paymaster UC2990 (2X)	28.9	30	---	146.1	147	---	0.7	1	---
Renk RK24 (2X)	28.9	---	---	129.8	---	---	4.5	---	---
Migro HP-277 (2X)	29.1	---	---	120.7	---	---	8.1	---	---
Farmers 4780 (2X)	29.1	---	---	125.1	---	---	7.8	---	---
Lynks LX4100 (2X)	29.2	---	---	120.1	---	---	6.2	---	---
Hyland HL-2456 (2X)	29.2	---	---	124.3	---	---	21.6	---	---
Funk G-4224 (MSX)	29.2	28	28	121.0	129	129	8.8	4	3
*Stauffer Seeds B606WX (2X)	29.2	29	---	147.8	148	---	13.7	7	---
Super Crost 1950 (2X)	29.3	29	29	110.4	114	109	6.9	3	2
*Kaltenberg KX58 (2X)	29.3	30	---	160.5	166	---	3.6	2	---
Funk G-4315 (MSX)	29.4	30	---	141.7	139	---	6.2	3	---
*Amcorn ZK6500 (2X)	29.5	29	---	154.1	150	---	1.4	1	---
*Great Lakes GL-522 (2X)	29.5	---	---	165.1	---	---	3.2	---	---
Wolverine W174A (2X)	29.5	30	31	135.2	140	139	2.9	1	1
Dairyland DX1007 (2X)	29.5	---	---	126.6	---	---	2.8	---	---
Garno S-92 (2X)	29.6	---	---	111.1	---	---	5.4	---	---
*Northrup King PX39 (2X)	29.7	30	---	170.4	172	---	12.8	6	---
Gutwein 46B (2X)	29.7	31	31	137.7	141	142	18.4	9	6
Pride 5525 (2X)	29.7	30	30	109.7	141	138	18.4	9	6
Payco SX611 (2X)	29.7	---	---	106.6	---	---	10.2	---	---
Farmers 224A (2X)	29.8	---	---	140.7	---	---	4.4	---	---
Voris V2441 (2X)	29.8	30	30	126.8	140	136	15.3	8	5
Low LSK222 (2X)	29.8	31	30	109.1	142	141	21.0	11	7
Rupp XR1690 (2X)	29.9	---	---	149.7	---	---	10.1	---	---
Stauffer Seeds B606 (2X)	29.9	---	---	143.2	---	---	3.1	---	---
Super Crost 2396 (2X)	29.9	30	---	119.7	128	---	8.5	4	---
*Super Crost 2410 (2X)	30.0	---	---	150.7	---	---	0.7	---	---
*Hyland HL-2784 (2X)	30.0	30	30	152.2	158	156	5.1	3	2
*Funk G-4315 (MSX)	30.0	31	31	150.3	156	145	0.0	0	0
Dairyland DX1007B (2X)	30.1	---	---	130.3	---	---	30.8	---	---
Pride 5511 (2X)	30.2	---	---	137.3	---	---	9.2	---	---
*Payco SX756 (2X)	30.2	31	---	146.7	149	---	0.0	0	---
*Golden Harvest H-2445 (MSX)	30.2	30	31	160.1	153	150	2.8	1	1
DeKalb XL32A (2X)	30.3	31	31	121.6	140	147	0.7	1	0
*Migro HP-401 (2X)	30.3	---	---	160.2	---	---	6.3	---	---
Golden Harvest H-2448 (2X)	30.4	31	31	142.2	149	150	10.6	5	4
DeKalb XL23 (2X)	30.4	30	30	114.9	128	131	7.0	4	2
Garno S-99 (2X)	30.4	30	---	142.5	138	---	3.5	2	---
*DeKalb XL55A (2X)	30.5	31	31	156.5	159	155	1.4	1	1
*Leader SX510 (2X)	30.6	31	---	156.2	149	---	13.2	7	---
Pioneer 3572 (2X)	30.8	31	---	131.4	135	---	0.8	0	---
Renk RK66 (2X)	30.8	31	31	129.8	136	141	15.0	8	6
Trojan T1000 (2X)	30.8	---	---	134.5	---	---	3.0	---	---
Gutwein 2440 (2X)	30.8	---	---	137.1	---	---	7.2	---	---
*Great Lakes 5922 (2X)	30.8	31	31	162.4	167	162	5.7	3	2
Kaltenberg KX68 (2X)	30.8	31	---	115.4	137	---	0.8	0	---
*Leader SX495 (2X)	30.9	---	---	167.4	---	---	2.0	---	---
*Leader SX555 (2X)	30.9	---	---	146.4	---	---	3.6	---	---
Cargill 436 (3X)	31.0	---	---	120.9	---	---	4.2	---	---
*Lynks LX4210 (2X)	31.1	---	---	160.8	---	---	2.9	---	---
Low LSK217 (2X)	31.1	31	31	119.6	129	132	6.3	3	3
*Custom CFS 1450 (2X)	31.1	---	---	162.9	---	---	5.8	---	---
Migro M-2022X (2X)	31.1	30	30	137.9	146	138	2.2	2	1
*Migro M-2018X (2X)	31.1	31	30	151.8	158	153	4.9	2	2
*Great Lakes GL-552 (2X)	31.2	31	31	149.5	150	148	9.9	5	4

Table 9 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Northrup King PX9454 (2X)	31.2	---	---	139.3	---	---	7.1	---	---
Pride 4488 (2X)	31.2	30	30	120.5	136	134	1.6	1	1
Andersons SSM (2X)	31.3	31	---	136.7	153	---	4.3	3	---
Garno S-100 (2X)	31.4	31	31	141.7	145	145	5.5	4	3
Super Crost 2470 (2X)	31.5	---	---	116.9	---	---	21.5	---	---
*Stauffer Seeds S5260 (2X)	31.6	---	---	168.5	---	---	0.0	---	---
*Amcorn PSX7480 (2X)	31.6	31	31	156.0	152	149	5.0	3	2
*Pioneer 3535 (2X)	31.6	31	32	155.9	150	144	5.0	3	2
*Custom CFS 6007 (2X)	31.7	---	---	148.1	---	---	2.1	---	---
*Stauffer Seeds S6389 (2X)	31.8	---	---	149.3	---	---	6.7	---	---
*O's Gold 6882 (2X)	31.8	---	---	150.0	---	---	2.7	---	---
Lowe LSX237 (2X)	31.8	---	---	129.4	---	---	1.5	---	---
Super Crost 3177 (2X)	32.0	---	---	141.0	---	---	2.8	---	---
Rupp XR1625 (2X)	32.2	---	---	140.2	---	---	1.5	---	---
*Migro HP-360 (2X)	32.2	---	---	146.5	---	---	2.2	---	---
Custom CFS W4000 (2X)	32.3	---	---	129.0	---	---	6.4	---	---
P.A.G. SX397 (2X)	32.3	---	---	118.0	---	---	29.2	---	---
*P.A.G. SX249 (2X)	32.5	32	---	151.1	152	---	1.4	1	---
Voris V2472 (2X)	32.5	---	---	117.9	---	---	4.3	---	---
Pioneer 3541 (2X)	32.8	33	33	137.1	154	143	0.8	0	1
Payco SX990 (2X)	32.9	---	---	116.3	---	---	2.1	---	---
Amcorn SP9000 (Sp.)	33.0	32	---	123.6	140	---	3.2	2	---
Golden Harvest H-2500 (2X)	33.2	33	34	127.8	143	147	4.7	2	2
*Voris V2491 (2X)	33.3	---	---	160.6	---	---	2.1	---	---
*O's Gold 5500A (2X)	33.9	33	34	149.5	154	155	0.7	1	0
Stauffer Seeds S6595A (2X)	34.1	---	---	136.5	---	---	8.6	---	---
Payco SX844 (2X)	34.3	33	---	132.9	150	---	7.9	4	---
Custom CFS W5410 (2X)	34.4	---	---	140.1	---	---	4.2	---	---
Dairyland DX1012 (2X)	34.7	34	---	123.7	143	---	7.7	5	---
*Renk RK77 (2X)	35.1	34	34	160.3	161	151	3.5	2	2
Rupp XR1780 (2X)	35.2	---	---	124.0	---	---	5.0	---	---
Average	29.2	29	30	131.7	134	138	8.4	4	3
Range	23.5 to 35.2	25 to 34	25 to 34	89.1 to 170.4	101 to 172	106 to 162	0.0 to 37.0	0 to 19	0 to 10
Least Significant Difference	1.6	1.0	0.7	14.1	9	6	---	---	---

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 1	May 6	May 7
Harvested	October 8	October 6	October 10
Soil Type	Capac loam	Capac loam	Capac loam
Previous Crop	Corn	Corn	Corn
Population	21,000	21,700	21,300
Seeds	36"	36"	36"
Fertilizer	165-50-50	150-50-50	150-50-50
Soil Test: pH	6.5	6.4	6.4
P	119 (very high)	120 (very high)	119 (very high)
K	224 (high)	212 (high)	220 (high)

Farm Cooperator: Michigan State University, East Lansing

County Extension Director: Marvin Preston, Mason

Table 10 (continued)

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre			Dry Weight		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Super Crost 1950 (2X)	42.0	37.7	36.7	11.9	15.6	16.1	5.0	5.7	5.8
Lynks LX4100 (2X)	41.5	---	---	12.3	---	---	5.1	---	---
Pioneer 3901 (2X)	41.4	37.5	35.7	14.5	15.6	16.8	6.0	5.8	5.9
Lowe LSX117 (2X)	41.2	---	---	16.6	---	---	6.8	---	---
Renks RK24 (2X)	41.0	---	---	15.2	---	---	6.3	---	---
Lynks LX4075 (2X)	40.9	---	---	14.5	---	---	5.9	---	---
Gries 420A (MSX)	40.8	---	---	14.6	---	---	6.0	---	---
DeKalb XL13 (2X)	40.7	38.5	---	12.6	14.4	---	5.1	5.5	---
McKenzie 409 (2X)	40.5	---	---	13.8	---	---	5.6	---	---
Northrup King PX37 (2X)	40.4	36.0	34.6	17.3	19.4	20.1	6.9	6.8	6.8
Garno S-95Y (2X)	40.2	35.9	---	16.7	17.7	---	6.7	6.3	---
ACCO Paymaster UC2990 (2X)	40.2	---	---	16.8	---	---	6.6	---	---
Gutwein 2180 (2X)	40.1	38.4	---	16.7	16.3	---	6.7	6.3	---
Amcorn SX6500 (2X)	39.9	36.4	---	17.7	18.0	---	7.1	6.5	---
Gutwein 2210 (2X)	39.9	36.2	---	12.8	15.9	---	5.1	5.6	---
Andersons SSA (2X)	39.9	39.0	---	12.9	13.1	---	5.2	5.1	---
Golden Harvest H-2445 (MSX)	39.8	35.1	33.2	18.4	18.4	19.9	7.2	6.4	6.5
Dairyland DX1008 (2X)	39.6	34.5	32.5	17.5	18.3	19.3	6.9	6.3	6.2
Custom CFS 1450 (2X)	39.6	---	---	18.0	---	---	7.1	---	---
Payco SX620 (2X)	39.5	---	---	12.7	---	---	5.0	---	---
Voris V2441 (2X)	39.5	35.3	33.8	15.5	17.7	17.9	6.1	6.1	6.0
Stauffer Seeds S5602 (2X)	39.3	---	---	14.9	---	---	5.9	---	---
Pioneer 3744 (2X)	39.1	---	---	15.6	---	---	6.1	---	---
Migro HP-277 (2X)	39.0	---	---	13.8	---	---	5.4	---	---
Funk Exp. 29097 (2X)	38.7	---	---	15.9	---	---	6.1	---	---
Super Crost 2410 (2X)	38.7	---	---	17.1	---	---	6.6	---	---
Golden Harvest Exp 745 (MSX)	38.5	---	---	16.1	---	---	6.1	---	---
Rupp XR1490 (2X)	38.4	37.4	---	12.2	13.0	---	4.7	4.9	---
Pride 4488 (2X)	38.3	35.0	33.4	15.5	18.1	17.9	5.9	6.2	5.9
Leader SX510 (2X)	38.3	34.1	---	18.4	19.8	---	7.0	6.7	---
Great Lakes GL-477 (2X)	38.3	---	---	18.5	---	---	7.1	---	---
Stauffer Seeds S6389 (2X)	38.1	---	---	18.5	---	---	7.0	---	---
DeKalb XL32A (2X)	38.0	34.2	32.4	17.8	19.2	20.1	6.8	6.5	6.5
Garno S-94 (2X)	37.8	35.9	---	14.9	15.8	---	5.6	5.6	---
Super Crost 2350 (2X)	37.7	34.7	33.2	16.0	17.8	18.4	6.0	6.1	6.4
P.A.G. SX249 (2X)	37.6	33.8	---	20.0	20.0	---	7.5	6.7	---
Pride 5525 (2X)	37.5	33.3	32.2	19.2	22.6	22.6	7.2	7.3	7.1
Hyland HL-2456 (2X)	37.4	---	---	18.9	---	---	7.1	---	---
Great Lakes GL-522 (2X)	37.4	---	---	17.4	---	---	6.5	---	---
Gutwein 2440 (2X)	37.2	---	---	14.5	---	---	5.5	---	---
Gutwein 468 (2X)	37.2	33.9	32.3	20.1	20.7	21.5	7.4	7.0	6.9
Kaltenberg KX61 (2X)	37.2	34.5	---	15.2	16.8	---	5.6	5.7	---
Funk G-4315 (MSX)	37.1	33.7	---	18.0	19.2	---	6.6	6.4	---
Rupp XR1624 (2X)	37.1	---	---	16.8	---	---	6.2	---	---
Garno S-100 (2X)	37.1	33.0	32.0	18.9	21.7	22.5	7.0	7.0	7.1
Asgrow RX511 (2X)	37.0	33.5	---	17.1	18.7	---	6.3	6.2	---
Amcorn PSX7480 (2X)	36.9	32.7	31.3	19.7	20.5	20.8	7.3	6.7	6.5
Farmers 4780 (2X)	36.9	---	---	15.5	---	---	5.7	---	---
Pride 5511 (2X)	36.8	---	---	19.5	---	---	7.2	---	---
Golden Harvest H-2440 (2X)	36.7	---	---	15.4	---	---	5.5	---	---
Andersons SSM (2X)	36.7	32.5	---	18.8	21.8	---	6.9	6.9	---
Stauffer Seeds B606WX (2X)	36.7	---	---	18.8	---	---	6.9	---	---
Funks G-4256 (3X)	36.5	33.4	---	15.6	17.0	---	5.7	5.6	---
Migro M-2022X (2X)	36.5	33.4	32.3	17.2	17.8	18.7	6.3	5.9	6.0
Funk G-4224 (MSX)	36.3	35.5	34.8	15.2	17.3	18.5	5.5	6.1	6.4
Farm Bureau FB-S-315 (2X)	36.3	33.9	33.1	16.7	16.8	17.5	6.1	5.7	5.8
Super Crost 81060 (2X)	36.3	---	---	15.4	---	---	5.6	---	---
Trojan T1000 (2X)	36.2	---	---	16.0	---	---	5.8	---	---
Stauffer Seeds B606 (2X)	36.2	33.7	---	19.1	21.3	---	6.9	7.1	---
Pioneer 3572 (2X)	36.1	32.2	---	16.3	19.6	---	5.9	6.2	---
Great Lakes GL-456 (2X)	36.0	---	---	17.8	---	---	6.4	---	---
Dairyland DX1007B (2X)	36.0	---	---	17.1	---	---	6.1	---	---
Lynks LX4210 (2X)	36.0	---	---	16.5	---	---	5.9	---	---
Pioneer 3780 (2X)	36.0	33.8	33.1	16.1	17.4	18.3	5.8	5.8	6.0
Funk G-4323 (MSX)	35.8	32.0	30.5	17.3	20.8	21.2	6.2	6.5	6.4
Stauffer Seeds S5260 (2X)	35.8	---	---	17.3	---	---	6.2	---	---
Great Lakes GL-552 (2X)	35.8	32.3	31.2	19.3	21.8	22.2	6.9	6.9	6.8
Hyland HL-2784 (2X)	35.7	33.1	32.4	16.3	19.7	19.9	5.8	6.4	6.4
Rupp XR1625 (2X)	35.6	---	---	19.1	---	---	6.8	---	---
Gries X415 (2X)	35.5	---	---	18.0	---	---	6.4	---	---
Garno S-99 (2X)	35.1	31.8	---	19.0	20.9	---	6.6	6.5	---
Voris V2472 (2X)	35.1	---	---	19.6	---	---	6.9	---	---
Cargill 436 (3X)	35.0	---	---	20.2	---	---	7.0	---	---
DeKalb XL23 (2X)	34.9	33.1	32.1	17.3	18.7	20.0	6.0	6.1	6.3
Farmer's 224A (2X)	34.8	---	---	20.3	---	---	7.1	---	---
Payco SX756 (2X)	34.6	32.7	---	18.5	21.4	---	6.4	6.9	---
Migro HP-360 (2X)	34.6	---	---	17.5	---	---	5.8	---	---
Lowe LSX222 (2X)	34.5	32.1	30.9	16.3	18.6	19.3	5.6	5.9	5.9
Dairyland DX1007 (2X)	34.4	---	---	19.1	---	---	6.6	---	---
Super Crost 2396 (2X)	34.3	31.6	---	16.7	18.6	---	5.8	5.9	---
Lowe LSX237 (2X)	34.2	---	---	17.4	---	---	6.0	---	---
Renk RK66 (2X)	34.2	31.4	30.9	19.3	22.0	21.6	6.6	6.8	6.6
Northrup King PX9454 (2X)	34.1	---	---	16.9	---	---	5.7	---	---
Cargill 862 (2X)	34.0	---	---	15.2	---	---	5.1	---	---
Migro M-2018X (2X)	33.9	31.8	30.9	18.6	20.8	21.9	6.4	6.6	6.7
Rupp XR1690 (2X)	33.7	---	---	18.9	---	---	6.4	---	---
Great Lakes S922 (2X)	33.7	31.0	30.5	20.8	22.9	22.9	7.0	7.0	6.9
P.A.G. SX397 (2X)	33.7	---	---	17.4	---	---	5.8	---	---
Kaltenberg KX58 (2X)	33.5	32.0	---	18.0	21.7	---	5.9	6.8	---
Custom CFS W4000 (2X)	33.4	---	---	18.3	---	---	6.1	---	---
Hyland HL-2428 (2X)	33.2	---	---	17.2	---	---	5.7	---	---
Wolverine W174A (2X)	33.1	31.3	29.7	20.9	21.7	22.2	6.9	6.7	6.5
Kaltenberg KX68 (2X)	33.0	31.2	---	16.2	19.1	---	5.3	5.9	---
Leader SX495 (2X)	32.8	---	---	17.7	---	---	5.8	---	---
Pioneer 3541 (2X)	32.8	30.4	30.0	18.0	20.8	21.1	5.9	6.2	6.3

(continued)

Table 10

SOUTH CENTRAL MICHIGAN
Ingham County Trial - Silage
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 2

Hybrid (Brand-Variety)	% Dry Matter	
---------------------------	--------------	--

Table 10 (continued)

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre			Green Weight			Dry Weight		
	2	3		2	3		2	3		2	3	
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Stauffer Seeds S6595A (2X)	32.5	---	---	20.7	---	---	6.7	---	---	---	---	---
Payco SX844 (2X)	32.4	30.5	---	17.7	19.2	---	5.7	5.8	---	---	---	---
Leader SX555 (2X)	32.3	---	---	22.5	---	---	7.3	---	---	---	---	---
Super Crost 3177 (2X)	32.2	---	---	17.9	---	---	5.8	---	---	---	---	---
DeKalb XL55A (2X)	32.2	30.9	29.9	20.7	22.3	22.7	6.6	6.8	6.7	---	---	---
Golden Harvest H-2448 (2X)	32.2	31.4	31.1	20.7	22.0	22.1	6.6	6.8	6.8	---	---	---
Super Crost 2470 (2X)	32.1	---	---	18.6	---	---	6.0	---	---	---	---	---
Amcorn SP9000 (Sp.)	32.1	29.9	---	18.9	20.4	---	6.1	6.1	---	---	---	---
Migro HP-401 (2X)	32.1	---	---	18.5	---	---	6.0	---	---	---	---	---
Payco SX990 (2X)	31.8	---	---	22.0	---	---	7.0	---	---	---	---	---
Rupp XR1780 (2X)	31.7	---	---	18.9	---	---	6.0	---	---	---	---	---
Custom CFS W5410 (2X)	31.5	---	---	16.5	---	---	5.2	---	---	---	---	---
Northrup King PK39 (2X)	31.4	30.5	---	16.3	19.7	---	5.1	6.0	---	---	---	---
Pioneer 3535 (2X)	31.1	29.6	29.6	19.7	20.9	21.6	6.1	6.1	6.4	---	---	---
Voris V2491 (2X)	30.8	---	---	17.4	---	---	5.4	---	---	---	---	---
Custom CFS 6007 (2X)	30.2	---	---	20.4	---	---	6.2	---	---	---	---	---
Dairyland DX1012 (2X)	30.0	28.4	---	16.8	20.2	---	5.0	5.7	---	---	---	---
O's Gold 5300A (2X)	29.9	27.7	27.4	22.4	25.6	26.1	6.7	7.0	7.1	---	---	---
O's Gold 6882 (2X)	29.6	---	---	19.0	---	---	5.6	---	---	---	---	---
Golden Harvest H-2500 (2X)	28.9	27.2	26.5	21.4	24.8	25.9	6.2	6.7	6.8	---	---	---
Renk RX77 (2X)	28.4	27.9	27.4	22.4	22.2	22.9	6.3	6.1	6.2	---	---	---
Average	37.4	34.2	32.4	16.6	18.6	19.9	6.1	6.2	6.3	---	---	---
Range	28.4	27.2	26.5	11.4	13.0	14.2	4.7	4.9	5.2	---	---	---
	49.0	41.1	37.7	22.5	25.6	26.1	7.5	7.3	7.1	---	---	---
Least Significance Difference	2.8	1.8	1.2	1.5	1.2	0.8	0.5	0.4	0.4	---	---	---

	1981	1980	1979
Planted	May 1	May 6	May 7
Harvested	September 10	September 8	September 10
Soil Type	Capac loam	Capac loam	Capac loam
Previous Crop	Corn	Corn	Corn
Population	21,100	21,500	21,300
Rows	36"	36"	36"
Fertilizer	165-50-50	150-50-50	150-50-50
Soil Test: pH	6.5	6.4	6.4
P	119 (very high)	120 (very high)	119 (very high)
K	224 (high)	212 (high)	220 (high)

Farm Cooperator: Michigan State University, East Lansing

County Extension Director: Marvin Preston, Mason

Table 11

NORTH CENTRAL MICHIGAN
Sanilac County Trial - Grain
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Super Crost 1466 (2X)	23.5	---	---	108.7	---	---	7.5	---	---
Pioneer 3950 (MSX)	23.5	23	25	120.2	117	110	2.4	1	1
Funk G-4085 (3X)	23.5	21	---	98.5	94	---	4.0	5	---
Warwick W844 (MSX)	23.7	---	---	91.4	---	---	5.2	---	---
Warwick T801 (3X)	23.9	---	---	90.1	---	---	4.1	---	---
Cargill 810 (2X)	24.5	---	---	121.7	---	---	2.6	---	---
Dairyland DX1096 (2X)	25.3	---	---	111.0	---	---	12.3	---	---
Warwick TX27 (3X)	25.4	24	---	108.0	111	---	0.0	1	---
Cargill 822 (2X)	25.4	---	---	103.4	---	---	2.5	---	---
DeKalb XL13 (2X)	26.0	24	25	125.7	118	117	0.0	1	3
Funk G-4141A (2X)	26.0	24	26	117.1	117	118	1.7	1	2
Hyland HL-2428 (2X)	26.0	25	---	116.7	125	---	1.6	2	---
P.A.G. SX111 (2X)	26.2	---	---	115.2	---	---	11.9	---	---
Pioneer 3906 (2X)	26.4	25	---	131.8	129	---	0.8	0	---
Andersons SSA (2X)	26.6	24	---	114.6	119	---	0.0	0	---
Hyland HL-2454 (2X)	26.8	---	---	115.8	---	---	0.8	---	---
Pickseed 6655 (2X)	26.9	---	---	131.4	---	---	0.7	---	---
Amcorn PSX3100 (2X)	27.0	---	---	123.3	---	---	0.0	---	---
Garno S-85X (2X)	27.2	25	---	106.3	118	---	0.8	1	---
Garno S-90 (2X)	27.3	25	27	119.9	127	126	0.8	0	0
Cargill 834 (2X)	27.3	---	---	101.4	---	---	1.5	---	---
Hyland HL-2442 (2X)	27.3	24	---	115.2	114	---	0.0	0	---
*Golden Harvest Exp.745 (MSX)	27.5	---	---	139.8	---	---	0.8	---	---
DeKalb XL1213 (2X)	27.7	---	---	105.0	---	---	0.8	---	---
Pioneer 3901 (2X)	27.8	26	27	127.2	128	133	0.0	0	0
*Dairyland DX1099 (2X)	28.0	---	---	139.7	---	---	0.0	---	---
Great Lakes GL-455 (2X)	28.0	---	---	130.0	---	---	4.3	---	---
P.A.G. SX181(2X)	28.0	26	27	132.8	125	126	3.0	2	2
Amcorn ZX4500 (2X)	28.2	---	---	130.0	---	---	0.0	---	---
Pride R319 (3X)	28.2	26	---	137.7	134	---	0.0	1	---
Pickseed 6688 (2X)	28.2	---	---	113.4	---	---	0.0	---	---
Great Lakes GL-422 (2X)	28.3	26	---	122.5	131	---	1.6	1	---
Stauffer Seeds S3306 (2X)	28.3	---	---	116.2	---	---	3.8	---	---
Asgrow RX511 (2X)	28.3	26	---	122.6	125	---	4.2	4	---
Super Crost 1700 (2X)	28.4	26	---	119.6	115	---	2.4	2	---

(continued)

Table 11 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Asgrow RX40 (2X)	28.6	26	27	112.3	117	116	0.8	0	0
*Great Lakes GL-456 (2X)	28.7	---	---	139.5	---	---	0.0	---	---
P.A.G. SX177 (2X)	28.7	27	28	128.4	126	124	0.7	0	0
Funk G-4256 (3X)	29.0	26	---	118.1	119	---	0.8	0	---
Trojan T950 (2X)	29.0	---	---	120.3	---	---	0.8	---	---
Gutwein 2085 (2X)	29.5	26	---	137.0	129	---	0.0	0	---
*O's Gold 2330 (2X)	29.5	---	---	138.9	---	---	0.8	---	---
Hyland HL-2456 (2X)	29.5	---	---	131.8	---	---	0.0	---	---
Pioneer 3744 (2X)	29.5	---	---	125.2	---	---	0.0	---	---
Garno S-94E (2X)	29.5	---	---	127.5	---	---	0.0	---	---
Renk RK18 (2X)	29.6	27	---	120.0	126	---	0.0	0	---
*Voris V2381 (2X)	29.6	27	29	139.2	131	130	2.8	1	1
*Kaltenberg KX55 (2X)	29.6	27	---	142.3	140	---	2.3	2	---
Stauffer Seeds S4402 (2X)	29.6	---	---	125.6	---	---	0.0	---	---
Cargill 832 (2X)	29.8	---	---	104.5	---	---	2.3	---	---
Wolverine W166 (2X)	29.9	28	30	129.8	135	128	0.9	0	0
Funk Exp. 29097 (2X)	30.0	---	---	114.0	---	---	0.8	---	---
Cargill 426 (3X)	30.0	---	---	111.3	---	---	0.7	---	---
Garno S-95Y (2X)	30.0	28	---	124.6	120	---	1.6	2	---
DeKalb XL314 (3X)	30.1	---	---	136.0	---	---	1.5	---	---
Amcorn ZX5500 (2X)	30.2	28	---	129.9	125	---	1.6	2	---
Voris V2331 (2X)	30.2	---	---	129.6	---	---	1.6	---	---
Farmers 227 (2X)	30.3	---	---	115.1	---	---	1.5	---	---
*Gutwein 2180 (2X)	30.4	---	---	147.5	---	---	0.7	---	---
Pride 3332 (2X)	30.4	---	---	111.5	---	---	3.4	---	---
*Dairyland DX1004 (2X)	30.4	27	---	145.3	131	---	3.1	3	---
Great Lakes GL-477 (2X)	30.5	28	---	135.4	145	---	0.0	0	---
Funk G-4224 (MSX)	30.6	28	29	128.8	135	132	0.8	1	1
Dairyland DX1003 (2X)	30.7	---	---	127.6	---	---	0.0	---	---
Migro HP-277 (2X)	30.8	---	---	128.8	---	---	0.0	---	---
Stauffer Seeds S406WX (2X)	30.8	---	---	108.5	---	---	0.7	---	---
Pride 4461 (2X)	30.9	28	---	128.5	132	---	0.0	1	---
*Great Lakes 5922 (2X)	31.3	30	32	140.2	143	139	0.0	0	0
Super Crost 1950 (2X)	31.4	28	29	117.2	122	122	3.0	2	1
*Super Crost 2350 (2X)	31.6	30	30	139.1	129	127	0.0	0	0
Great Lakes GL-522 (2X)	31.9	---	---	128.7	---	---	0.8	---	---
Migro M-2022X (2X)	32.1	29	31	119.9	124	120	0.8	1	1
*DeKalb XL23 (2X)	32.5	---	---	141.0	---	---	0.0	---	---
*Super Crost 2396 (2X)	32.7	29	---	142.6	137	---	0.0	0	---
Kaltenberg KX54A (2X)	32.8	---	---	134.2	---	---	0.7	---	---
*Migro M-2018X (2X)	32.8	31	32	139.2	136	134	0.8	1	1
ACCO Paymaster UC2990 (2X)	32.9	---	---	134.3	---	---	0.0	---	---
*O's Gold 1107 (2X)	33.1	---	---	151.3	---	---	0.7	---	---
*Funk G-4323 (MSX)	33.1	---	---	147.1	---	---	0.8	---	---
*Hyland HL-2784 (2X)	33.1	---	---	143.7	---	---	0.0	---	---
Voris V2441 (2X)	33.2	---	---	119.4	---	---	0.7	---	---
Dairyland DX1008 (2X)	33.2	31	---	112.3	125	---	0.0	0	---
*Voris V2472 (2X)	33.2	---	---	152.2	---	---	1.6	---	---
*Renk RK66 (2X)	33.2	31	32	152.6	142	139	0.0	0	0
Stauffer Seeds S5602 (2X)	33.3	---	---	118.7	---	---	0.0	---	---
P.A.G. SX397 (2X)	33.3	---	---	109.7	---	---	1.5	---	---
Renk RK24 (2X)	33.4	---	---	116.4	---	---	0.0	---	---
Super Crost 3177 (2X)	33.6	---	---	138.1	---	---	0.8	---	---
*Voris V2411 (2X)	33.6	30	---	144.6	136	---	0.0	0	---
Trojan T1000 (2X)	33.6	---	---	133.0	---	---	0.0	---	---
Stauffer Seeds B606 (2X)	33.8	31	32	118.5	131	131	0.0	0	0
Andersons SSM (2X)	34.0	30	---	125.3	124	---	1.5	1	---
*Super Crost 2410 (2X)	34.1	---	---	153.4	---	---	1.4	---	---
*Stauffer Seeds Super 80 (2X)	35.1	---	---	140.2	---	---	0.0	---	---
Migro HP-360 (2X)	35.4	---	---	126.8	---	---	0.8	---	---
*Golden Harvest H-2500 (2X)	36.3	33	34	142.5	129	129	0.0	0	0
Average	29.4	27	29	125.5	127	125	1.3	1	1
Range	23.5 to 36.3	21 to 33	25 to 34	90.1 to 153.4	94 to 145	104 to 139	0.0 to 12.3	0 to 5	0 to 5
Least Significant Difference	1.6	1.0	0.7	13.4	8	5	--	--	--

Table 12

NORTH CENTRAL MICHIGAN
Saginaw County Trial - Silage
One, Two, Three Year Averages -1981, 1980, 1979

Zone 3

Hybrid (Brand Variety)	% Dry Matter			Green Weight			Tons Per Acre Dry Weight		
	2 3			2 3			2 3		
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
P.A.G. SX111 (2X)	54.3	---	---	9.3	---	---	5.0	---	---
Cargill 810 (2X)	52.0	---	---	9.8	---	---	5.1	---	---
Pioneer 3950 (MSX)	51.5	46.7	42.7	7.9	10.6	13.1	4.1	4.8	5.4
Stauffer Seeds S3306 (2X)	51.2	---	---	9.3	---	---	4.8	---	---
P.A.G. SX397 (2X)	50.9	---	---	10.8	---	---	5.5	---	---
Hyland HL-2454 (2X)	50.7	---	---	10.9	---	---	5.5	---	---
Amcorn PSX 3100 (2X)	50.7	---	---	10.7	---	---	5.4	---	---
Warwick W844 (MSX)	50.4	---	---	8.5	---	---	4.3	---	---
Warwick TX27 (3X)	49.5	43.8	---	8.2	11.7	---	4.1	5.0	---
Amcorn ZX4500 (2X)	48.6	---	---	11.8	---	---	5.7	---	---
Funk G-4085 (3X)	47.5	45.4	---	8.4	10.0	---	4.0	4.5	---
Garno S-90 (2X)	47.3	45.2	40.4	11.2	13.5	16.8	5.3	6.0	6.4
Garno S-85X (2X)	47.2	45.1	---	10.4	12.4	---	4.9	5.5	---
Dairyland DX1096 (2X)	46.0	---	---	11.9	---	---	5.4	---	---
Andersons SSA (2X)	45.3	44.0	---	10.1	13.7	---	4.6	6.0	---
P.A.G. SX181	44.7	43.0	39.3	11.5	13.5	16.5	5.2	5.8	6.3
Funk G-4141A (MSX)	44.3	41.7	39.0	10.8	13.7	16.1	4.8	5.6	6.1
Pioneer 3906 (2X)	44.2	40.7	---	12.0	14.0	---	5.3	5.6	---
Cargill 834 (2X)	44.1	---	---	10.0	---	---	4.4	---	---
Great Lakes GL-422 (2X)	43.6	42.9	---	12.6	14.4	---	5.5	6.2	---
Super Crost 1466 (2X)	43.4	---	---	11.7	---	---	5.2	---	---
Gutwein 2085 (2X)	43.3	42.1	---	14.4	14.7	---	6.2	6.1	---
Golden Harvest Exp-745 (MSX)	43.0	---	---	12.1	---	---	5.3	---	---
Pride R319 (3X)	42.5	42.2	---	13.4	15.4	---	5.7	6.5	---
Gutwein 2180 (2X)	42.0	---	---	12.4	---	---	5.2	---	---
Super Crost 1700 (2X)	41.9	41.2	---	9.7	12.7	---	4.0	5.1	---
Wolverine W166 (2X)	41.7	39.4	34.5	13.8	16.0	20.4	5.7	6.2	6.5
Pride 3332 (2X)	41.6	---	---	11.3	---	---	4.7	---	---
Great Lakes GL-455 (2X)	41.6	38.9	---	13.5	17.6	---	5.6	6.7	---
Migro HP-277 (2X)	41.3	---	---	14.7	---	---	6.1	---	---
Pickseed 6655 (2X)	40.1	---	---	14.2	---	---	5.7	---	---
Dairyland DX1099 (2X)	39.6	---	---	11.1	---	---	4.4	---	---
Cargill 822 (2X)	39.5	---	---	10.2	---	---	4.1	---	---
Kaltenberg KX55 (2X)	39.1	37.8	---	12.4	15.0	---	4.9	5.6	---
Hyland HL-2442 (2X)	38.8	40.1	---	11.5	12.6	---	4.6	5.1	---
Pioneer 3901 (2X)	38.2	39.3	35.8	12.0	15.6	19.0	4.6	6.1	6.6
Trojan T950 (2X)	38.6	---	---	11.0	---	---	4.3	---	---
Stauffer Seeds S406WX (2X)	38.4	---	---	11.8	---	---	4.5	---	---
Cargill 832 (2X)	38.4	---	---	10.7	---	---	4.2	---	---
Stauffer Seeds S4402 (2X)	38.3	---	---	13.2	---	---	5.0	---	---
Hyland HL-2456 (2X)	38.1	---	---	17.1	---	---	6.3	---	---
Super Crost 1950 (2X)	37.8	36.3	32.9	13.2	16.9	19.2	5.0	6.1	6.1
Hyland HL-2428 (2X)	37.8	40.5	---	12.2	13.2	---	4.6	5.4	---
O's Gold 2330 (2X)	37.8	---	---	13.7	---	---	5.1	---	---
DeKalb EX1213 (2X)	37.8	---	---	15.0	---	---	5.7	---	---
Renk RK18 (2X)	37.4	37.1	---	11.9	14.8	---	4.4	5.5	---
Cargill 426 (3X)	37.4	---	---	12.6	---	---	4.7	---	---
Funk G-4224 (MSX)	37.2	36.9	33.7	13.1	16.7	20.5	4.8	6.1	6.6
Voris V2331 (2X)	37.1	---	---	11.1	---	---	4.1	---	---
Warwick T801 (3X)	36.8	---	---	10.9	---	---	4.0	---	---
Pioneer 3744 (2X)	36.0	---	---	11.7	---	---	4.3	---	---
Dairyland DX1004 (2X)	35.9	35.5	---	15.4	19.9	---	5.5	7.0	---
Dairyland DX1003 (2X)	35.9	---	---	13.7	---	---	4.9	---	---
Renk RK24 (2X)	35.8	---	---	18.4	---	---	6.6	---	---
Funk G-4256 (3X)	35.8	35.7	---	12.2	14.8	---	4.4	5.3	---
Farmers 227 (2X)	35.7	---	---	16.5	---	---	5.9	---	---
P.A.G. SX177 (2X)	35.2	35.2	32.9	13.6	14.7	17.5	4.8	5.1	5.6
Great Lakes GL-477 (2X)	35.2	34.7	---	18.5	22.1	---	6.5	7.6	---
Garno S-95Y (2X)	35.0	36.1	---	12.6	17.2	---	4.5	6.3	---
Dairyland DX1008 (2X)	35.0	34.6	---	15.7	18.6	---	5.5	6.4	---
Funk Exp. 29097 (2X)	34.9	---	---	17.8	---	---	6.2	---	---
Stauffer Seeds Super 80 (2X)	34.7	---	---	19.6	---	---	6.8	---	---
Asgrow RX511 (2X)	34.7	35.1	---	16.4	19.0	---	5.8	6.7	---
Trojan T1000 (2X)	34.5	---	---	15.7	---	---	5.4	---	---
DeKalb XL13 (2X)	34.5	38.8	36.3	12.2	14.3	16.8	4.2	5.6	6.0
Garno S-94E (2X)	34.5	---	---	12.5	---	---	4.3	---	---
Super Crost 2396 (2X)	34.4	33.3	---	11.6	17.1	---	4.0	5.7	---
Stauffer Seeds S5602 (2X)	34.4	---	---	16.7	---	---	5.8	---	---
Super Crost 2350 (2X)	33.6	34.5	31.7	13.1	16.1	19.2	4.4	5.6	5.9
O's Gold 1107 (2X)	33.5	---	---	20.4	---	---	6.8	---	---
Pride 4461 (2X)	33.5	32.1	---	19.4	19.4	---	6.5	6.2	---
DeKalb XL23 (2X)	33.2	---	---	13.8	---	---	4.6	---	---
Super Crost 2410 (2X)	33.0	---	---	18.0	---	---	5.9	---	---
ACCO Paymaster UL2990 (2X)	32.8	---	---	17.3	---	---	5.7	---	---
Great Lakes GL-456 (2X)	32.7	---	---	16.8	---	---	5.5	---	---
DeKalb XL 314 (3X)	32.4	---	---	14.4	---	---	4.7	---	---
Voris V2381 (2X)	32.4	36.9	34.1	13.3	15.5	18.4	4.3	5.8	6.2
Voris V2411 (2X)	32.2	33.6	---	19.4	21.3	---	6.3	7.2	---
Asgrow RX40 (2X)	32.1	35.1	32.7	14.0	16.2	17.9	4.5	5.7	5.8
Amcorn ZX5500 (2X)	31.8	34.9	---	14.2	17.0	---	4.5	6.0	---
Migro M-2018X (2X)	31.8	31.3	28.4	18.4	20.5	24.0	5.9	6.4	6.6
Andersons SSM (2X)	31.7	32.2	---	21.0	24.1	---	6.5	7.7	---
Great Lakes GL-522 (2X)	31.5	---	---	17.5	---	---	5.5	---	---
Hyland HL-2784 (2X)	31.3	---	---	15.8	---	---	4.9	---	---
Migro M-2022X (2X)	31.1	31.8	29.5	17.2	18.2	21.3	5.4	5.8	6.1
Great Lakes 5922 (2X)	31.1	31.5	29.2	19.0	23.1	25.0	5.9	7.3	7.2
Kaltenberg KX54A (2X)	31.0	---	---	13.9	---	---	4.3	---	---
Voris V2441 (2X)	30.4	---	---	18.1	---	---	5.5	---	---
Migro HP-360 (2X)	29.9	---	---	14.8	---	---	4.4	---	---
Funk G-4323 (MSX)	29.7	---	---	18.4	---	---	5.5	---	---

(continued)

Table 12 (continued)

Hybrid (Brand Variety)	% Dry Matter			Green Weight			Tons Per Acre Dry Weight		
	2 3			2 3			2 3		
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Renk RK66 (2X)	28.3	30.3	27.7	18.4	19.7	22.9	5.2	6.0	6.2
Voris V2472 (2X)	28.2	---	---	17.0	---	---	4.8	---	---
Super Crost 3177 (2X)	27.3	---	---	17.6	---	---	4.8	---	---
Stauffer Seeds B606 (2X)	27.0	30.2	27.9	17.4	20.6	22.2	4.7	6.3	6.2
Golden Harvest H-2500 (2X)	24.8	26.5	24.6	21.3	25.8	28.3	5.3	6.9	6.9
Average	36.1	37.5	33.3	13.4	16.4	19.5	5.1	6.0	6.1
Range	24.8	26.5	24.6	7.9	10.0	13.1	4.0	4.5	5.2
	54.3	46.7	42.7	21.3	25.8	28.3	6.8	7.7	7.2
Least Significant Difference	2.9	2.0	1.5	1.5	1.1	0.8	0.7	0.5	0.4

	1981	1980	1979
Planted	May 6	May 10	May 14
Harvested	September 22	September 19	September 20
Soil Type	Linwood loam and Tawas muck	Linwood loam and Tawas muck	Linwood loam and Tawas muck
Previous Crop	Corn	Corn	Corn
Population	20,600	21,300	21,400
Rows	30"	30"	30"
Fertilizer	241-207-180	204-138-80	214-138-180
Soil Test: pH	7.3	7.7	7.4
P	117 (very high)	129 (very high)	220 (very high)
K	328 (very high)	364 (very high)	366 (very high)

Farm Cooperator: Charles Cork, Peck

County Extension Director: Rex Sieting, Sandusky

Table 13

NORTH CENTRAL MICHIGAN
Saginaw County Trial
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
		yr.	yr.		yr.	yr.		yr.	yr.
Dairyland DX1085 (2X)	23.8	---	---	104.7	---	---	7.2	---	---
Pro Seed PS150 (2X)	24.5	---	---	124.8	---	---	5.6	---	---
Asgrow RX355 (3X)	24.6	---	---	131.9	---	---	15.5	---	---
P.A.G. SX157 (2X)	24.8	---	---	113.9	---	---	3.8	---	---
McKenzie 858 (2X)	24.9	---	---	117.0	---	---	4.3	---	---
Stauffer Seeds S3242 (2X)	24.9	---	---	144.0	---	---	7.8	---	---
Pickseed 6655 (2X)	25.5	---	---	131.7	---	---	1.4	---	---
Andersons SSA (2X)	25.5	24	23	135.6	133	129	6.3	5	8
Migro M-0101 (2X)	25.8	24	---	124.6	132	---	14.0	8	---
Dairyland DX1096 (2X)	26.0	26	---	152.5	147	---	3.4	3	---
Great Lakes GL-422 (2X)	26.0	25	---	140.8	139	---	4.1	2	---
Lynds LX4040 (2X)	26.0	---	---	129.2	---	---	5.8	---	---
Pioneer 3906 (2X)	26.2	---	---	123.4	---	---	2.8	---	---
Wolverine W132 (2X)	26.4	24	---	111.5	124	---	13.2	8	---
Payco SX619 (2X)	26.4	---	---	132.2	---	---	7.4	---	---
Hyland HL-2454 (2X)	26.6	---	---	140.7	---	---	2.8	---	---
Garno S-90 (2X)	26.7	25	24	142.6	137	130	2.8	2	5
Funk G-4141A (2X)	26.9	24	23	115.0	126	123	2.9	2	8
Stauffer Seeds S3306 (2X)	26.9	---	---	147.1	---	---	5.2	---	---
Hyland HL-2428 (2X)	27.1	---	---	130.2	---	---	5.1	---	---
Pickseed 6688 (2X)	27.1	---	---	124.2	---	---	4.1	---	---
Garno S-85X (2X)	27.1	---	---	128.8	---	---	6.4	---	---
Cargill 834 (2X)	27.1	---	---	125.1	---	---	4.1	---	---
Great Lakes GL-455 (2X)	27.3	26	---	143.6	148	---	7.6	4	---
McKenzie 409 (2X)	27.4	---	---	148.9	---	---	2.1	---	---
Gutwein 2085 (2X)	27.5	---	---	148.2	---	---	6.7	---	---
DeKalb EX1213 (2X)	27.6	---	---	116.2	---	---	4.8	---	---
Hyland HL-2442 (2X)	27.6	25	23	137.0	132	125	4.2	5	8
Golden Harvest Exp.745 (MSX)	27.6	---	---	145.1	---	---	0.7	---	---
P.A.G. SX181(2X)	27.7	27	---	152.0	143	---	9.2	5	---
Custom CFS W2005 (2X)	27.9	---	---	157.2	---	---	6.8	---	---
Dairyland DX1002 (2X)	27.9	25	24	136.0	120	111	3.8	3	12
Pioneer 3901 (2X)	27.9	25	23	163.7	153	142	1.4	1	4
DeKalb XL314 (3X)	28.0	---	---	141.7	---	---	3.5	---	---
Pride R319 (3X)	28.0	25	---	148.0	147	---	5.7	3	---
Garno S-95Y (2X)	28.2	26	---	132.1	143	---	9.6	6	---
Pride 3332 (2X)	28.2	---	---	129.4	---	---	2.8	---	---
Dairyland DX1004 (2X)	28.3	27	---	147.5	146	---	6.3	6	---
Payco SX637 (2X)	28.4	26	25	134.5	139	135	24.8	12	14
Asgrow RX511 (2X)	28.5	26	---	158.9	150	---	2.8	3	---
P.A.G. SX177 (2X)	28.5	---	---	129.8	---	---	7.4	---	---
Garno S-99 (2X)	28.6	---	---	151.9	---	---	0.0	---	---
Asgrow RX40 (2X)	28.6	26	---	116.5	129	---	15.9	9	---
Hyland HL-2456 (2X)	28.8	---	---	137.5	---	---	2.8	---	---
Amcorn ZX4500 (2X)	29.0	---	---	132.4	---	---	8.5	---	---
Voris V2331 (2X)	29.1	---	---	153.5	---	---	6.3	---	---
Great Lake GL-456 (2X)	29.3	---	---	149.0	---	---	9.9	---	---
P.A.G. SX189 (2X)	29.3	27	---	137.1	141	---	4.3	3	---
Payco SX620 (2X)	29.4	---	---	143.2	---	---	5.3	---	---
Funk Exp. 29097 (2X)	29.5	---	---	141.7	---	---	6.2	---	---

Table 13 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Migro HP-277 (2X)	29.7	---	---	142.8	---	---	0.7	---	---
Payco SX611 (2X)	29.9	---	---	147.3	---	---	3.5	---	---
Funk G-4224 (MSX)	30.0	27	26	134.8	130	120	2.8	1	4
Wolverine W166 (2X)	30.0	27	26	138.4	144	137	5.9	3	7
Stauffer Seeds S406WX (2X)	30.1	---	---	129.9	---	---	2.8	---	---
Gutwein 2210 (2X)	30.2	---	---	143.8	---	---	7.4	---	---
Lynks LX4075 (2X)	30.2	---	---	151.8	---	---	4.5	---	---
Amcorn ZX5500 (2X)	30.3	27	---	159.0	150	---	6.0	3	---
Voris V2381 (2X)	30.4	---	---	140.4	---	---	2.9	---	---
Great Lakes GL-466 (2X)	30.4	---	---	148.8	---	---	5.0	---	---
Great Lakes GL-477 (2X)	30.5	28	---	160.0	157	---	6.3	4	---
*Dairyland DX1003 (2X)	30.6	27	---	168.1	157	---	4.0	2	---
Pioneer 3744 (2X)	30.6	---	---	153.6	---	---	2.9	---	---
Dairyland DX1099 (2X)	30.7	---	---	135.4	---	---	14.3	---	---
Funk G-4256 (3X)	30.9	26	---	147.1	125	---	0.7	1	---
Trojan T950 (2X)	31.0	---	---	149.7	---	---	2.3	---	---
Kaltenberg KX55 (2X)	31.1	---	---	152.0	---	---	10.4	---	---
Andersons SSM (2X)	31.1	29	---	157.2	157	---	4.1	3	---
Dairyland DX1007B (2X)	31.3	29	27	151.9	155	141	0.7	1	16
Stauffer Seeds S4402 (2X)	31.4	---	---	158.1	---	---	3.6	---	---
*Pioneer 3780 (2X)	31.4	28	26	164.4	155	149	7.7	4	7
Custom CFS 4004 (2X)	31.4	---	---	154.9	---	---	3.4	---	---
DeKalb XL23 (2X)	31.4	29	27	144.1	146	140	4.5	2	8
Gries X415 (2X)	31.6	---	---	130.7	---	---	13.9	---	---
Northrup King PK49 (2X)	31.6	28	27	159.4	156	153	1.4	2	5
ACCO Paymaster UC2951 (2X)	31.7	28	26	138.8	139	135	4.4	3	7
*Great Lakes 5922 (2X)	31.7	29	28	171.6	168	162	3.3	2	5
*Amcorn PSX7480 (2X)	31.8	29	28	167.7	159	150	2.1	1	8
Amcorn ZX6500 (2X)	32.1	---	---	130.9	---	---	3.6	---	---
*DeKalb XL32A (2X)	32.2	---	---	163.5	---	---	0.7	---	---
*Great Lakes GL-522 (2X)	32.2	---	---	167.4	---	---	1.4	---	---
Gutwein 2180 (2X)	32.3	29	---	157.5	141	---	3.3	2	---
O's Gold 6880 (2X)	32.3	29	---	145.3	151	---	4.2	2	---
Funk G-4323 (MSX)	32.3	29	27	159.2	154	156	5.8	3	6
*Migro HP-360 (2X)	32.5	---	---	161.8	---	---	1.5	---	---
*Hyland HL-2784 (2X)	32.6	---	---	178.8	---	---	1.4	---	---
*Golden Harvest H-2448 (2X)	32.7	29	28	175.0	172	161	2.2	1	6
Kaltenberg KX68 (2X)	32.7	---	---	143.9	---	---	5.9	---	---
Voris V2472 (2X)	32.7	29	---	152.6	157	---	1.6	2	---
ACCO Paymaster UC2990 (2X)	32.9	31	---	155.0	146	---	3.5	2	---
Migro M-2022X (2X)	32.9	30	28	146.3	154	150	6.1	5	7
Gries X500 (2X)	33.0	---	---	146.2	---	---	1.5	---	---
Pride 4461 (2X)	33.0	---	---	150.1	---	---	4.7	---	---
Payco SX756 (2X)	33.0	---	---	146.2	---	---	4.5	---	---
*Northrup King PK39 (2X)	33.1	30	---	164.3	156	---	4.2	3	---
*Kaltenberg KX58 (2X)	33.2	28	---	166.9	156	---	12.7	13	---
O's Gold 1111 (2X)	33.3	---	---	150.0	---	---	2.9	---	---
Custom CFS W3610 (2X)	33.3	---	---	152.8	---	---	2.9	---	---
*Payco SX788 (2X)	33.3	---	---	167.5	---	---	4.5	---	---
*Farmers 224A (2X)	33.5	---	---	177.4	---	---	10.0	---	---
*Voris V2411 (2X)	33.6	30	---	166.4	157	---	2.8	1	---
*Payco SX844 (2X)	33.7	30	28	162.0	157	152	3.8	2	5
*Gries X600 (2X)	33.7	---	---	170.1	---	---	1.4	---	---
Sohigro 39 (2X)	33.9	30	28	150.5	145	147	0.8	0	4
Pro Seed PS225 (2X)	34.0	---	---	132.0	---	---	3.6	---	---
Lynks LX4100 (2X)	34.0	---	---	145.8	---	---	1.4	---	---
*Sohigro 35 (2X)	34.0	---	---	166.9	---	---	1.4	---	---
*Trojan T1000 (2X)	34.1	---	---	164.7	---	---	3.6	---	---
*Custom CFS 6007 (2X)	34.2	---	---	162.0	---	---	1.4	---	---
Golden Harvest Exp. 436 (2X)	34.4	---	---	157.3	---	---	0.8	---	---
*Payco SX860 (2X)	34.5	---	---	174.6	---	---	3.4	---	---
Farmers 4780 (2X)	34.6	---	---	139.3	---	---	0.7	---	---
Great Lakes 80103 (2X)	34.7	---	---	161.2	---	---	3.8	---	---
Average	30.0	27	26	146.5	147	140	4.9	3	8
Range	23.8	24	23	104.7	120	111	0.0	0	4
	to	to	to	to	to	to	to	to	to
	34.7	31	28	178.8	172	162	24.8	12	16

Least Significant
Difference

1.7 1.0 0.7 15.1 8 5 -- -- --

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 5-6	May 9	May 8
Harvested	October 27	November 3	November 5
Soil Type	Parkhill Loam	Parkhill-Capac Loam	Parkhill-Capac Loam
Previous Crop	Corn	Corn	Beans
Population	20,800	21,000	21,700
Rows	30"	30"	30"
Fertilizer	269-150-180	168-78-198	18-72-222
Soil Test: pH	7.6	7.6	7.2
P	103 (very high)	120 (very high)	97 (high)
K	392 (very high)	335 (very high)	220 (high)

Farm Cooperators: Reinbold Bros., Reese

County Extension Director: Harold Ferris, Saginaw

Table 14.

NORTH CENTRAL MICHIGAN
Huron County Trial - Grain
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Warwick W844 (MSX)	21.7	22	---	77.3	72	---	39.3	48	---
Lynks LX4040 (2X)	22.0	---	---	102.5	---	---	6.7	---	---
Great Lakes 81201 (2X)	22.0	---	---	80.4	---	---	25.8	---	---
Renk RK5 (2X)	22.1	---	---	84.3	---	---	5.7	---	---
Garno S-85X (2X)	22.6	23	---	89.2	95	---	31.0	36	---
Funk G-4085 (3X)	22.6	22	22	85.1	81	82	11.0	25	27
Garno S-88 (2X)	22.8	---	---	83.9	---	---	5.1	---	---
Dairyland DX1085 (2X)	22.8	21	---	77.9	76	---	33.1	35	---
Cargill 805 (2X)	23.1	---	---	68.0	---	---	70.4	---	---
Hyland HL-2428 (2X)	23.3	---	---	101.5	---	---	22.0	---	---
Pioneer 3950 (MSX)	23.5	23	22	111.8	110	105	4.3	9	6
Cargill 810 (2X)	23.6	22	22	85.0	76	78	10.5	22	16
Garno S-86 (2X)	23.7	---	---	90.3	---	---	18.4	---	---
Warwick W901 (2X)	23.8	---	---	91.6	---	---	8.8	---	---
P.A.G. SX111 (2X)	23.9	---	---	109.0	---	---	12.0	---	---
Warwick T801 (3X)	24.0	---	---	76.5	---	---	29.0	---	---
P.A.G. SX157 (2X)	24.0	---	---	76.7	---	---	14.5	---	---
Cargill 834 (2X)	24.1	---	---	102.1	---	---	5.7	---	---
Super Crost 1466 (2X)	24.4	---	---	79.1	---	---	34.8	---	---
Cargill 822 (2X)	24.4	---	---	102.4	---	---	6.7	---	---
Andersons SSA (2X)	24.5	23	24	107.1	103	104	12.6	27	18
Garno S-92 (2X)	24.5	---	---	100.2	---	---	14.3	---	---
Gutwein 2085 (2X)	24.6	24	---	110.5	109	---	15.4	22	---
Payco SX620 (2X)	24.6	---	---	103.2	---	---	10.7	---	---
Asgrow RX40 (2X)	24.9	---	---	110.9	---	---	7.6	---	---
Dairyland DX1096 (2X)	25.0	24	---	98.7	101	---	7.7	17	---
Amcorn ZX3500 (2X)	25.0	---	---	92.6	---	---	3.2	---	---
P.A.G. SX181 (2X)	25.0	24	24	103.4	101	104	10.8	10	7
Pride 3332 (2X)	25.0	---	---	113.8	---	---	8.0	---	---
Pioneer 3958 (2X)	25.0	24	24	101.5	96	93	3.7	9	6
Hyland HL-2454 (2X)	25.1	---	---	110.0	---	---	12.6	---	---
Great Lakes GL-422 (2X)	25.2	24	---	122.5	112	---	7.9	24	---
Great Lakes GL-466 (2X)	25.3	---	---	121.2	---	---	4.4	---	---
Amcorn ZX4500 (2X)	25.4	---	---	99.6	---	---	4.7	---	---
*O's Gold Exp. 23101 (2X)	25.5	---	---	123.0	---	---	4.4	---	---
Wolverine W166 (2X)	25.5	25	25	111.4	126	127	9.5	7	5
Super Crost 1700 (2X)	25.5	24	---	97.7	87	---	2.2	17	---
Pickseed 6655 (2X)	25.5	---	---	103.0	---	---	3.6	---	---
DeKalb XL13 (2X)	25.6	24	25	91.8	97	99	13.1	12	8
Stauffer Seeds S4402 (2X)	25.6	---	---	117.9	---	---	11.0	---	---
Pioneer 3906 (2X)	25.6	25	---	116.4	123	---	7.1	6	---
Stauffer Seeds S3306 (2X)	25.6	---	---	93.2	---	---	7.4	---	---
Trojan T950 (2X)	25.7	---	---	108.1	---	---	2.3	---	---
Payco SX619 (2X)	25.7	---	---	92.9	---	---	9.2	---	---
Lynks LX4075 (2X)	25.7	---	---	113.3	---	---	7.1	---	---
Pride R319 (3X)	25.8	24	25	101.3	105	109	18.8	17	11
Hyland HL-2442 (2X)	25.8	24	---	86.5	93	---	11.5	22	---
Garno S-94E (2X)	25.8	---	---	112.9	---	---	4.7	---	---
Cargill 832 (2X)	25.8	25	25	89.4	106	106	15.7	17	12
Garno S-90 (2X)	25.8	24	24	119.1	109	108	4.3	20	13
DeKalb EX1213 (2X)	25.9	---	---	92.9	---	---	12.5	---	---
P.A.G. SX189 (2X)	26.0	25	25	85.3	100	99	19.7	15	10
Northrup King PK449 (3X)	26.1	25	---	99.7	105	---	6.0	12	---
Pickseed 6688 (2X)	26.1	---	---	84.1	---	---	11.3	---	---
Gutwein 2180 (2X)	26.2	---	---	112.1	---	---	12.3	---	---
Pioneer 3901 (2X)	26.3	25	25	106.7	120	115	6.4	12	8
Dairyland DX1019 (2X)	26.3	---	---	107.1	---	---	15.7	---	---
*Pioneer 3744 (2X)	26.4	---	---	136.1	---	---	0.0	---	---
*Funk Exp. 29097 (2X)	26.4	---	---	123.9	---	---	4.3	---	---
Golden Harvest Exp. 698 (2X)	26.4	---	---	106.8	---	---	4.2	---	---
Renk RK6 (2X)	26.4	25	---	84.4	93	---	10.9	10	---
Hyland HL-2456 (2X)	26.4	---	---	111.1	---	---	12.0	---	---
*Kaltenberg KX55 (2X)	26.5	---	---	138.2	---	---	7.1	---	---
Funk G-4256 (3X)	26.6	25	---	114.0	104	---	7.1	12	---
Renk RK18 (2X)	26.6	25	---	106.6	107	---	7.0	11	---
Dairyland DX1003 (2X)	26.7	26	---	120.3	126	---	4.5	7	---
Funk G-4141A (MSX)	26.7	25	24	109.1	100	102	4.4	12	9
Migro HP-277 (2X)	27.0	---	---	115.3	---	---	5.0	---	---
Garno S-95V (2X)	27.0	25	---	110.7	123	---	14.1	15	---
*Amcorn ZX5500 (2X)	27.3	25	---	128.1	126	---	3.1	7	---
Golden Harvest Exp.745 (MSX)	27.4	---	---	111.7	---	---	6.7	---	---
*Payco SX611 (2X)	27.4	---	---	123.8	---	---	6.1	---	---
*P.A.G. SX177 (2X)	27.4	25	25	125.1	108	102	7.5	14	11
O's Gold 2330 (2X)	27.5	---	---	120.8	---	---	5.7	---	---
Dairyland DX1004 (2X)	27.7	26	---	118.7	127	---	12.9	18	---
Lynks LX4100 (2X)	27.8	---	---	121.5	---	---	5.0	---	---
Funk G-4224 (MSX)	28.0	26	26	107.9	101	104	5.1	13	9
*Payco SX637 (2X)	28.0	25	25	124.1	118	115	7.3	20	13
*Great Lakes GL-477 (2X)	28.0	27	---	135.2	137	---	5.3	9	---
Sohigro Exp. 211	28.1	---	---	114.3	---	---	7.0	---	---
Sohigro 35 (2X)	28.1	---	---	103.2	---	---	2.8	---	---
Great Lakes GL-456 (2X)	28.3	---	---	118.3	---	---	12.1	---	---
Farmers 227 (2X)	28.4	---	---	119.6	---	---	4.2	---	---
*Stauffers Seeds S5602 (2X)	28.4	---	---	126.9	---	---	5.3	---	---
*Renk RK24 (2X)	28.5	---	---	136.6	---	---	3.5	---	---
*Trojan T1000 (2X)	28.5	---	---	134.9	---	---	12.8	---	---
Super Crost 1950 (2X)	29.0	26	26	108.3	114	113	5.3	14	10
O's Gold 6880 (2X)	29.0	---	---	108.9	---	---	9.4	---	---
*Renk RK66 (2X)	29.3	28	---	128.2	122	---	1.5	7	---
*DeKalb XL25A (2X)	29.5	27	---	126.5	118	---	1.6	14	---

Table 14 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Garno S-99 (2X)	29.5	---	---	103.2	---	---	2.2	---	---
Super Crost 2410 (2X)	29.6	---	---	111.1	---	---	5.6	---	---
Stauffer Seeds S406WX (2X)	29.7	---	---	107.0	---	---	7.9	---	---
*Super Crost 2396 (2X)	29.8	27	---	127.2	122	---	9.0	9	---
*Northrup King PX39 (2X)	29.8	28	---	139.0	136	---	3.1	4	---
Great Lakes GL-522 (2X)	30.1	---	---	122.4	---	---	7.7	---	---
*Payco SX788 (2X)	30.1	---	---	123.6	---	---	0.0	---	---
*Golden Harvest H-2445 (MSX)	30.2	28	29	128.9	121	127	5.8	7	5
Wolverine W168 (2X)	30.5	28	---	115.9	120	---	7.2	17	---
Super Crost 2350 (2X)	30.5	28	27	114.2	117	117	1.5	5	3
Golden Harvest H-2448 (2X)	30.5	28	30	120.3	129	130	8.4	8	5
*DeKalb XL32A (2X)	30.9	---	---	132.1	---	---	1.4	---	---
ACCO Paymaster UC2990 (2X)	31.0	---	---	112.5	---	---	6.9	---	---
*Great Lakes 5922 (2X)	31.1	29	29	144.4	141	140	2.5	9	6
*Sohigro 39 (2X)	31.1	29	29	130.3	130	129	0.7	3	2
*ACCO Paymaster UC4660 (2X)	31.3	---	---	147.9	---	---	7.6	---	---
Super Crost 3177 (2X)	31.3	---	---	107.9	---	---	2.2	---	---
Kaltenberg KX68 (2X)	31.6	29	---	106.4	109	---	0.8	4	---
Kaltenberg KX54A (2X)	31.9	---	---	117.5	---	---	3.6	---	---
Migro HP-360 (2X)	32.0	---	---	122.6	---	---	5.9	---	---
*Kaltenberg KX58 (2X)	32.0	29	27	129.4	129	126	6.3	18	13
Migro M-2022X (2X)	32.0	29	29	113.4	119	116	2.7	7	5
*Pride 4488 (2X)	32.4	29	---	132.9	139	---	5.6	5	---
Wolverine W174A (2X)	32.6	29	30	120.3	128	129	2.1	6	4
Payco SX756 (2X)	32.6	29	---	113.4	125	---	2.3	8	---
Migro HP-23R (2X)	33.1	30	30	114.3	120	120	7.7	8	5
*Andersons SSM (2X)	33.3	29	---	135.2	137	---	9.0	14	---
*Northrup King PX9454 (2X)	33.7	---	---	132.7	---	---	3.6	---	---
Sohigro 57	35.0	---	---	116.3	---	---	3.5	---	---
*Golden Harvest H-2500 (2X)	35.3	33	34	131.6	136	129	0.0	10	6
Average	27.2	26	26	110.3	112	112	8.9	14	9
Range	21.7	21	22	68.0	72	78	0.0	3	2
	to	to	to	to	to	to	to	to	to
	35.3	33	34	147.9	141	140	70.4	48	18
Least Significant Difference	1.6	1.1	0.8	12.7	9	6	---	---	---

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 8	May 7	May 15
Harvested	November 4	November 7	November 9
Soil Type	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
Previous Crop	Corn	Corn	Corn
Population	21,400	21,200	21,000
Rows	30"	30"	30"
Fertilizer	133-140-72	188-95-195	195-95-204
Soil Test: pH	6.9	7.2	7.7
P	119 (very high)	149 (very high)	82 (high)
K	224 (high)	440 (very high)	228 (high)

Farm Cooperator: William McCrea, Bad Axe

Extension Livestock Agent: Lee Warschefsky, Bad Axe

Table 15

NORTH CENTRAL MICHIGAN
Huron County Trial - Silage
One, Two, Three Year Averages - 1981, 1980, 1979

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre			Green Weight			Dry Weight		
	1981	2	3	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Warwick W844 (MSX)	51.2	49.9	---	12.7	11.7	---	6.5	5.9	---	---	---	---
P.A.G. SX157 (2X)	50.0	---	---	12.2	---	---	6.1	---	---	---	---	---
Garno S-88 (2X)	48.7	---	---	14.6	---	---	7.1	---	---	---	---	---
Dairyland DX1096 (2X)	48.5	47.8	---	15.1	13.8	---	7.3	6.6	---	---	---	---
Pioneer 3958 (2X)	48.0	47.8	46.3	14.2	13.0	13.0	6.8	6.2	6.0	---	---	---
Super Crost 1466 (2X)	46.7	---	---	15.0	---	---	7.0	---	---	---	---	---
Stauffer Seeds S3306 (2X)	46.3	---	---	15.3	---	---	7.1	---	---	---	---	---
Renk RK5 (2X)	46.2	---	---	13.1	---	---	6.0	---	---	---	---	---
Northrup King PX449 (2X)	45.9	44.5	---	16.7	15.7	---	7.6	7.0	---	---	---	---
Asgrow RK40 (2X)	45.1	---	---	15.1	---	---	6.8	---	---	---	---	---
Pioneer 3906 (2X)	45.0	39.5	---	14.8	16.1	---	6.7	6.3	---	---	---	---
P.A.G. SX181 (2X)	44.8	39.9	38.8	15.1	15.8	16.6	6.7	6.2	6.3	---	---	---
P.A.G. SX11 (2X)	44.7	---	---	13.1	---	---	5.8	---	---	---	---	---
Cargill 822 (2X)	44.6	---	---	17.0	---	---	7.6	---	---	---	---	---
Hyland HL-2454 (2X)	44.5	---	---	15.0	---	---	6.6	---	---	---	---	---
Payco SX619 (2X)	44.2	---	---	15.3	---	---	6.8	---	---	---	---	---
Dairyland DX1019 (2X)	43.9	---	---	18.1	---	---	8.0	---	---	---	---	---
Gutwein 2085 (2X)	43.8	43.6	---	14.6	13.4	---	6.4	5.8	---	---	---	---
O's Gold Exp. 23101 (2X)	43.8	---	---	17.2	---	---	7.5	---	---	---	---	---
Dairyland DX1085 (2X)	43.1	39.1	---	13.9	12.2	---	6.0	5.4	---	---	---	---
Pride 3332 (2X)	42.8	---	---	14.6	---	---	6.3	---	---	---	---	---
Garno S-85 (2X)	42.8	43.9	---	11.9	12.1	---	5.1	5.3	---	---	---	---
Hyland HL-2428 (2X)	42.8	---	---	17.3	---	---	7.4	---	---	---	---	---
Funk G-4224 (MSX)	42.7	40.6	38.7	17.5	17.6	18.5	7.5	7.1	7.1	---	---	---
Renk RK6 (2X)	42.6	39.8	---	12.4	13.9	---	5.3	5.5	---	---	---	---

(continued)

Table 15 (continued)

Hybrid (Brand-Variety)	% Dry Matter			Green Weight			Tons Per Acre			Dry Weight		
	1981	2	3	1981	2	3	1981	2	3	1981	2	3
		yr.	yr.		yr.	yr.		yr.	yr.		yr.	yr.
P.A.G. SX189 (2X)	42.6	41.8	38.3	13.9	15.2	16.7	5.9	6.3	6.3			
Amcorn ZX4500 (2X)	42.3	---	---	17.3	---	---	7.3	---	---			
Great Lakes GL-422 (2X)	42.3	43.7	---	14.2	14.8	---	6.0	6.5	---			
Payco SX620 (2X)	41.8	---	---	16.1	---	---	6.7	---	---			
Pride R319 (3X)	41.8	41.9	39.9	19.0	17.8	17.1	7.9	7.4	6.8			
Pioneer 3950 (MSX)	41.7	41.1	43.1	16.7	15.8	14.7	7.0	6.5	6.3			
DeKalb XL13 (2X)	41.6	43.7	41.5	19.7	17.2	16.7	8.2	7.4	6.9			
Funk G-4085 (3X)	41.5	41.3	42.5	12.7	12.7	12.1	5.3	5.3	5.1			
Pioneer 3901 (2X)	41.5	39.7	38.2	16.9	17.8	18.5	7.0	7.1	7.0			
Wolverine W168 (2X)	41.3	39.4	---	16.5	18.0	---	6.8	7.0	---			
Warwick T801 (3X)	41.2	---	---	13.2	---	---	5.4	---	---			
DeKalb EX1213 (2X)	41.1	---	---	17.2	---	---	7.1	---	---			
Cargill 810 (2X)	40.9	46.7	46.9	14.4	13.2	12.5	5.9	6.1	5.8			
Cargill 834 (2X)	40.8	---	---	17.3	---	---	7.0	---	---			
Garno S-86 (2X)	40.7	---	---	16.0	---	---	6.5	---	---			
Amcorn ZX3500 (2X)	40.5	---	---	14.2	---	---	5.8	---	---			
Andersons SSA (2X)	40.2	41.3	40.6	14.8	15.0	15.5	5.9	6.2	6.2			
Payco SX637 (2X)	40.2	39.0	37.5	21.1	19.8	19.2	8.5	7.7	7.2			
Great Lakes GL-466 (2X)	40.2	---	---	19.7	---	---	7.9	---	---			
Lynks LX4040 (2X)	40.1	---	---	18.1	---	---	7.3	---	---			
Garno S-90 (2X)	39.9	42.5	40.1	15.5	15.3	16.6	6.2	6.5	6.6			
P.A.G. SX177 (2X)	39.9	40.1	38.2	21.2	18.9	17.4	8.4	7.5	6.7			
Cargill 805 (2X)	39.8	---	---	13.3	---	---	5.3	---	---			
Pickseed 6655 (2X)	39.6	---	---	14.5	---	---	5.7	---	---			
Super Crost 1700 (2X)	39.5	40.7	---	17.2	15.6	---	6.8	6.3	---			
Stauffer Seeds S4402 (2X)	39.2	---	---	17.8	---	---	7.0	---	---			
Pickseed 6688 (2X)	38.9	---	---	19.5	---	---	7.5	---	---			
Payco SX611 (2X)	38.5	---	---	19.8	---	---	7.6	---	---			
Warwick W901 (2X)	38.4	---	---	16.2	---	---	6.3	---	---			
Kaltenberg KX55 (2X)	38.4	---	---	20.4	---	---	7.8	---	---			
Gutwein 2180 (2X)	38.4	---	---	19.3	---	---	7.4	---	---			
Funk G-4256 (3X)	38.4	37.4	---	16.7	16.7	---	6.4	6.2	---			
Garno S-92 (2X)	38.1	---	---	17.2	---	---	6.6	---	---			
Trojan T950 (2X)	37.6	---	---	17.0	---	---	6.4	---	---			
Pioneer 3744 (2X)	37.6	---	---	17.8	---	---	6.6	---	---			
Wolverine W166 (2X)	37.5	37.2	35.0	21.1	19.8	19.6	7.9	7.4	6.9			
Hyland HL-2442 (2X)	37.4	39.3	---	17.1	16.1	---	6.3	6.2	---			
Amcorn ZX5500 (2X)	37.2	36.9	---	18.8	18.1	---	7.0	6.7	---			
Lynks LX4075 (2X)	37.2	---	---	17.5	---	---	6.5	---	---			
Great Lakes 81201 (2X)	36.7	---	---	15.5	---	---	5.7	---	---			
Garno S-94E (2X)	36.7	---	---	24.3	---	---	8.9	---	---			
Renks RK18 (2X)	36.3	35.1	---	13.7	15.2	---	5.0	5.3	---			
Funk G-4141A (MSX)	36.1	38.4	38.1	16.1	15.7	16.6	5.8	6.0	6.3			
Golden Harvest Exp. 698 (2X)	36.1	---	---	21.0	---	---	7.6	---	---			
Dairyland DX1003 (2X)	35.9	35.4	---	19.7	19.0	---	7.1	6.7	---			
Super Crost 1950 (2X)	35.7	34.6	34.5	17.9	18.1	17.9	6.4	6.3	6.2			
Sohigro 35 (2X)	35.7	---	---	19.0	---	---	6.8	---	---			
Cargill 832 (2X)	35.6	36.2	36.0	15.9	15.4	14.9	5.6	5.5	5.3			
O's Gold 2330 (2X)	35.4	---	---	22.6	---	---	8.0	---	---			
Great Lakes GL-477 (2X)	35.4	35.7	---	24.0	23.7	---	8.5	8.5	---			
Hyland HL-2456 (2X)	35.2	---	---	23.3	---	---	8.2	---	---			
O's Gold 6880 (2X)	35.2	---	---	23.2	---	---	8.1	---	---			
Golden Harvest Exp. 745 (2X)	35.2	---	---	18.1	---	---	6.3	---	---			
Stauffer Seeds S406WX (2X)	35.1	---	---	20.0	---	---	7.0	---	---			
Garno S-95Y (2X)	35.1	34.3	---	19.8	20.2	---	6.8	6.8	---			
Farmers 227 (2X)	35.0	---	---	23.3	---	---	8.1	---	---			
Kaltenberg KX58 (2X)	34.8	34.6	33.0	24.3	23.9	23.7	8.4	8.2	7.8			
Renk RK24 (2X)	34.6	---	---	22.1	---	---	7.6	---	---			
Golden Harvest H-2448 (2X)	34.3	31.8	30.8	25.9	27.0	25.6	8.9	8.6	7.9			
Northrup King PX39 (2X)	34.2	33.3	---	26.3	24.7	---	9.0	8.2	---			
Funk Exp. 29097 (2X)	34.2	---	---	21.9	---	---	7.5	---	---			
Garno S-99 (2X)	34.1	---	---	18.0	---	---	6.1	---	---			
Super Crost 2410 (2X)	33.6	---	---	22.6	---	---	7.6	---	---			
Lynks LX4100 (2X)	33.3	---	---	19.7	---	---	6.5	---	---			
Payco SX788 (2X)	33.2	---	---	21.7	---	---	7.2	---	---			
Trojan T1000 (2X)	33.1	---	---	20.5	---	---	6.8	---	---			
Migro HP-277 (2X)	33.1	---	---	18.6	---	---	6.2	---	---			
DeKalb XL25A (2X)	33.0	33.6	---	21.2	19.9	---	7.0	6.7	---			
ACCO Paymaster UC2990 (2X)	32.8	---	---	22.8	---	---	7.4	---	---			
Super Crost 2396 (2X)	32.7	33.6	---	23.1	19.9	---	7.5	6.6	---			
Great Lakes 5922 (2X)	32.7	32.6	32.0	26.3	25.8	24.5	8.6	8.4	7.8			
Stauffer Seeds S5602 (2X)	32.6	---	---	21.9	---	---	7.1	---	---			
Kaltenberg KX68 (2X)	32.3	31.6	---	21.2	20.4	---	6.8	6.4	---			
Super Crost 2350 (2X)	32.2	32.7	33.4	22.4	19.9	20.0	7.2	6.5	6.6			
Kaltenberg KX54A (2X)	32.1	---	---	23.7	---	---	7.5	---	---			
Sohigro Exp. 211	31.6	---	---	21.2	---	---	6.7	---	---			
Sohigro 39 (2X)	31.5	30.9	29.4	26.0	23.6	23.0	8.1	7.2	6.7			
Andersons SSM (2X)	31.4	32.7	---	26.0	23.3	---	8.2	7.6	---			
Great Lakes GL-522 (2X)	31.1	---	---	24.7	---	---	7.6	---	---			
Dairyland DX1004 (2X)	30.9	32.5	---	19.3	20.5	---	5.9	6.6	---			
Wolverine W174A (2X)	30.9	31.8	30.8	24.6	23.9	23.0	7.6	7.6	7.1			
ACCO Paymaster UC4660 (2X)	30.6	---	---	26.4	---	---	8.0	---	---			
Northrup King PX9454 (2X)	30.4	---	---	25.6	---	---	7.6	---	---			
Payco SX756 (2X)	30.3	31.2	---	21.8	22.9	---	6.6	7.1	---			
DeKalb XL32A (2X)	30.2	---	---	25.2	---	---	7.6	---	---			
Super Crost 3177 (2X)	30.1	---	---	21.3	---	---	6.4	---	---			
Migro HP-360 (2X)	29.9	---	---	20.8	---	---	6.2	---	---			
Pride 4488 (2X)	29.7	31.5	---	26.3	23.4	---	7.8	7.3	---			
Migro M-2022X (2X)	29.5	30.4	30.5	20.0	22.1	21.3	6.0	6.8	6.5			
Great Lakes GL-456 (2X)	29.4	---	---	22.5	---	---	6.6	---	---			

Table 15 (continued)

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre					
				Green Weight			Dry Weight		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Renk RK66 (2X)	28.9	31.1	---	24.6	23.5	---	7.1	7.3	---
Migro HP-23R (2X)	28.3	29.7	29.5	23.0	23.7	22.5	6.5	7.0	6.6
Golden Harvest H-2445 (MSX)	28.0	28.8	28.6	21.7	22.2	21.5	6.1	6.4	6.2
Golden Harvest H-2500 (2X)	25.5	27.3	26.9	28.0	27.3	25.8	7.1	7.4	6.9
Sohigro 57	24.5	---	---	25.7	---	---	6.3	---	---
Average	37.5	37.4	36.3	18.9	18.5	18.8	7.0	6.7	6.6
Range	24.5	27.3	26.9	11.9	11.7	12.1	5.1	5.3	5.1
	to	to	to	to	to	to	to	to	to
	51.2	49.9	46.9	28.0	27.3	25.8	9.0	8.6	7.9
Least Significant Difference	3.2	1.9	1.4	1.8	1.5	1.0	0.8	0.6	0.5

Planted	1981	1980	1979
Harvested	May 7	May 7	May 15
Soil Type	September 22	September 19	September 20
Previous Crop	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
Population	Corn	Corn	Corn
Rows	21,600	21,400	21,500
Fertilizer	30"	30"	30"
Soil Test: pH	185-218-214	188-95-195	195-95-204
P	7.2	7.2	7.7
K	106 (very high)	149 (very high)	82 (high)
	432 (very high)	440 (very high)	228 (high)

Farm Cooperator: William McCrea, Bad Axe

Extension Livestock Agent: Lee Warschefsky, Bad Axe

Table 16

NORTH CENTRAL MICHIGAN
Isabella County Trial
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
McKenzie 707 (3X)	19.7	---	---	86.0	---	---	10.0	---	---
Sohigro 15A (2X)	21.1	---	---	87.2	---	---	8.4	---	---
Asgrow RK355 (3X)	21.6	---	---	90.2	---	---	13.0	---	---
Renk RK5 (2X)	21.9	---	---	98.6	---	---	4.0	---	---
Funk G-4085 (3X)	21.9	23	23	103.2	99	89	4.2	5	6
Renk RK3 (2X)	21.9	---	---	100.5	---	---	8.1	---	---
Pioneer 3950 (2X)	22.1	23	23	106.6	114	102	1.4	1	1
Great Lakes 81201 (2X)	22.4	---	---	118.8	---	---	2.1	---	---
McKenzie 858 (2X)	22.5	---	---	103.8	---	---	3.6	---	---
Dairyland DX1090 (2X)	22.7	23	23	100.6	102	91	3.6	5	5
Sohigro 23 (2X)	22.7	---	---	105.7	---	---	10.1	---	---
Migro M-0101 (2X)	22.8	23	23	102.6	114	101	7.0	4	4
Super Crost 1466 (2X)	22.9	---	---	111.3	---	---	4.7	---	---
Wolverine W132 (2X)	23.0	23	---	119.3	121	---	0.7	1	---
Dairyland DX1085 (2X)	23.0	23	---	86.0	88	---	10.2	8	---
P.A.G. SX157 (2X)	23.2	---	---	99.1	---	---	1.4	---	---
Northrup King PX9252 (2X)	23.3	---	---	109.9	---	---	0.7	---	---
Sohigro 22 (2X)	23.4	26	---	95.1	101	---	4.2	5	---
Garno S-85X (2X)	23.4	---	---	105.8	---	---	7.0	---	---
Lynks LX4040 (2X)	23.6	---	---	114.7	---	---	3.4	---	---
Pickseed 6655 (2X)	23.8	---	---	92.8	---	---	1.5	---	---
McKenzie 927 (MSX)	23.8	---	---	118.9	---	---	4.9	---	---
McKenzie 901 (3X)	24.1	24	24	97.3	107	99	6.2	5	5
Migro HP-201 (2X)	24.4	---	---	96.5	---	---	2.2	---	---
Renk RK6 (2X)	24.4	---	---	102.0	---	---	0.7	---	---
Funk G414A (MSX)	24.4	25	24	102.3	102	89	2.1	7	5
*Amcorn ZX4500 (2X)	24.7	---	---	123.5	---	---	0.7	---	---
*Kaltenberg KX55 (2X)	24.7	---	---	127.2	---	---	2.9	---	---
Dairyland DX1003 (2X)	24.7	26	---	110.3	122	---	2.7	3	---
*Garno S-90 (2X)	24.8	26	25	125.4	132	116	3.1	2	2
Funk Exp. 29097 (2X)	24.8	---	---	111.8	---	---	2.8	---	---
Farmers 227 (2X)	24.9	---	---	120.1	---	---	3.5	---	---
*Pioneer 3901 (2X)	24.9	25	25	129.1	137	122	1.4	1	2
McKenzie 987 (2X)	24.9	27	---	104.4	122	---	4.9	5	---
Migro HP-277 (2X)	24.9	---	---	104.9	---	---	0.0	---	---
Hyland HL-2454 (2X)	25.0	---	---	112.1	---	---	1.5	---	---
Stauffer Seeds S3306 (2X)	25.1	---	---	117.9	---	---	3.5	---	---
*Great Lakes GL-455 (2X)	25.1	25	---	124.5	130	---	0.7	3	---
Pioneer 3958 (2X)	25.1	25	24	107.6	108	96	4.1	4	3
Super Crost 1700 (2X)	25.2	25	---	105.3	109	---	1.4	3	---
Pride 3332 (2X)	25.2	---	---	99.8	---	---	7.4	---	---
Stauffer Seeds S4402 (2X)	25.3	---	---	118.5	---	---	2.7	---	---
Renk RK18 (2X)	25.3	---	---	113.6	---	---	1.4	---	---
Northrup King PX9288 (2X)	25.3	---	---	100.6	---	---	2.9	---	---
DeKalb XL14AA (2X)	25.3	25	---	112.4	115	---	2.7	3	---
Lynks LX4075 (2X)	25.4	---	---	108.0	---	---	2.7	---	---
Trojan T950 (2X)	25.4	---	---	104.2	---	---	2.1	---	---
*Great Lakes GL-422 (2X)	25.4	26	---	124.1	131	---	2.1	3	---
*Pioneer 3780 (2X)	25.5	27	27	122.9	126	110	4.1	4	4
P.A.G. SX181 (2X)	25.5	---	---	118.8	---	---	7.2	---	---

Table 16 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.	1981	2 yr.	3 yr.
Pickseed 6688 (2X)	25.6	---	---	101.2	---	---	1.6	---	---
Voris V2331 (2X)	25.7	---	---	121.4	---	---	2.7	---	---
Great Lakes GL-456 (2X)	25.7	---	---	114.4	---	---	6.5	---	---
Northrup King PX485 (3X)	25.9	26	---	113.7	125	---	8.5	6	---
Pride R319 (3X)	25.9	26	26	106.8	120	106	4.7	4	3
Amcorn ZX5500 (2X)	26.0	27	---	120.7	131	---	1.4	2	---
Amcorn ZX3100 (2X)	26.0	---	---	116.8	---	---	1.4	---	---
*Dairyland DX1096 (2X)	26.1	26	---	123.9	126	---	3.4	6	---
McKenzie 904 (2X)	26.1	---	---	114.4	---	---	0.7	---	---
Dairyland DX1002 (2X)	26.3	---	---	102.1	---	---	5.7	---	---
DeKalb EX1213 (2X)	26.5	---	---	105.5	---	---	0.7	---	---
O's Gold 2330 (2X)	26.6	---	---	108.0	---	---	4.9	---	---
Wolverine W168 (2X)	26.6	27	---	114.5	129	---	0.7	1	---
Dairyland DX1004 (2X)	26.6	26	---	108.7	120	---	4.8	7	---
Great Lakes GL-466 (2X)	27.0	---	---	117.8	---	---	2.1	---	---
*Garno S-99 (2X)	27.1	---	---	123.0	---	---	2.8	---	---
Funk G-4256 (3X)	27.1	26	---	107.3	107	---	2.1	7	---
Super Crost 1950 (2X)	27.2	27	---	110.6	117	---	3.5	3	---
DeKalb XL314 (3X)	27.3	---	---	108.8	---	---	4.2	---	---
*Voriss V2381 (2X)	27.4	27	27	122.9	126	112	1.4	2	2
DeKalb XL23 (2X)	27.4	---	---	116.2	---	---	4.3	---	---
*Great Lakes GL-477 (2X)	27.4	28	---	130.8	145	---	2.4	3	---
Funk G-4224 (MSX)	27.5	27	27	106.3	115	101	7.6	5	4
*Voriss V2411 (2X)	27.8	29	---	123.3	133	---	2.7	3	---
*O's Gold 6880 (2X)	28.0	29	---	129.3	133	---	2.1	2	---
Gries X415 (2X)	28.4	---	---	101.5	---	---	2.1	---	---
Migro M-2018X (2X)	28.5	30	30	115.1	132	113	2.1	2	2
McKenzie 409 (2X)	28.5	---	---	107.8	---	---	1.5	---	---
Stauffer Seeds B507 (2X)	28.5	28	28	106.7	119	99	2.8	3	2
Trojan T1000 (2X)	28.8	---	---	102.0	---	---	4.3	---	---
Lynks LX4100 (2X)	29.0	---	---	105.8	---	---	2.1	---	---
Garno S-95Y (2X)	29.2	---	---	109.4	---	---	5.0	---	---
*Kaltenberg KX61 (2X)	29.4	---	---	128.4	---	---	6.9	---	---
Super Crost 2350 (2X)	29.5	---	---	113.2	---	---	4.4	---	---
*Stauffer Seeds S5602 (2X)	29.6	---	---	124.0	---	---	4.0	---	---
Great Lakes GL-522 (2X)	30.3	---	---	114.0	---	---	0.7	---	---
Gries 420A (MSX)	30.7	---	---	100.7	---	---	2.8	---	---
Kaltenberg KX54A (2X)	30.8	---	---	113.5	---	---	0.0	---	---
*Stauffer Seeds B606 (2X)	31.0	30	---	136.0	147	---	2.1	2	---
Migro HP-360 (2X)	31.9	---	---	100.8	---	---	6.8	---	---
DeKalb XL32A (2X)	32.5	32	31	120.3	128	117	0.7	1	1
Average	25.6	26	26	110.2	121	104	3.5	4	3
Range	19.7	23	23	86.0	88	89	0.0	1	1
	to	to	to	to	to	to	to	to	to
	32.5	32	31	136.0	147	122	13.0	8	6
Least Significant Difference	1.5	0.9	0.7	12.3	8	5	---	---	---

*Significantly better than average yield in 1981.

Planted	1981	1980	1979
Harvested	May 22	May 21	May 21
Soil Type	November 7	November 10	November 19
	Isabella loam	Parkhill loam and	Parkhill loam and
		Metamora sandy	Metamora sandy
		Loam	Loam
Previous Crop	Alfalfa	Corn	Corn
Population	21,300	21,100	20,600
Rows	38"	38"	38"
Fertilizer	127-100-132	140-80-130	146-156-152
Soil Test: pH	6.5	7.1	7.4
P	87 (high)	72 (high)	80 (high)
K	284 (high)	114 (low)	140 (low)

Farm Cooperator: Floyd Hauch, Rosebush

County Extension Director: Lyle Thompson, Mt. Pleasant

(continued)

Table 17

NORTH CENTRAL MICHIGAN
Montcalm County Trial - Irrigated vs. Not Irrigated
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre						% Stalk Lodging					
	1981	2	3	1981		2 Years		3 Years		1981	2 Years		3 Years		
		yrs.	yrs.	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig
McKenzie 858 (2X)	20.2	--	--	102.6	74.8	--	--	--	--	1.5	3.3	--	--	--	--
Asgrow RX355 (3X)	20.7	--	--	103.4	68.6	--	--	--	--	16.8	15.9	--	--	--	--
Stauffer Seeds S2202 (2X)	21.2	--	--	92.8	64.8	--	--	--	--	6.2	12.3	--	--	--	--
Great Lakes 81201 (2X)	21.5	--	--	87.5	65.1	--	--	--	--	7.7	10.9	--	--	--	--
P.A.G. SX157 (2X)	21.6	--	--	98.1	66.9	--	--	--	--	7.3	19.4	--	--	--	--
Stauffer Seeds S3306 (2X)	21.8	--	--	118.7	95.1	--	--	--	--	2.9	4.9	--	--	--	--
Migro HP-201 (2X)	21.8	--	--	91.2	70.3	--	--	--	--	9.8	5.2	--	--	--	--
Wolverine W126 (2X)	21.9	23	--	86.6	64.5	102	82	--	--	17.8	19.3	13	14	--	--
Great Lakes GL-422 (2X)	22.0	23	--	125.1	95.0	128	106	--	--	5.2	3.9	8	10	--	--
Warwick W901 (2X)	22.1	22	--	108.2	80.1	108	86	--	--	10.5	16.0	14	20	--	--
Garno S-88 (2X)	22.1	--	--	105.3	73.3	--	--	--	--	6.8	1.8	--	--	--	--
Garno S-85X (2X)	22.3	--	--	107.2	84.1	--	--	--	--	12.2	13.2	--	--	--	--
DeKalb XL14AA (2X)	22.3	23	--	118.8	91.5	125	111	--	--	6.3	7.2	9	7	--	--
Migro M-0101 (2X)	22.3	23	23	103.8	77.0	109	91	107	82	7.8	19.0	10	16	10	14
Garno S-86 (2X)	22.4	--	--	94.9	70.1	--	--	--	--	4.1	5.8	--	--	--	--
Great Lakes GL-456 (2X)	22.5	--	--	111.8	87.7	--	--	--	--	7.5	13.8	--	--	--	--
+*Pioneer 3901 (2X)	22.5	23	23	128.9	97.0	141	118	139	110	0.7	2.0	5	5	5	5
Hyland HL-2456 (2X)	22.5	--	--	104.6	81.8	--	--	--	--	9.4	8.1	--	--	--	--
DeKalb XL13 (2X)	22.6	--	--	102.7	62.2	--	--	--	--	16.3	36.7	--	--	--	--
Payco SX637 (2X)	22.7	--	--	114.1	89.6	--	--	--	--	5.8	7.7	--	--	--	--
Pioneer 3958 (2X)	22.8	23	24	101.4	69.0	101	83	104	80	7.9	19.9	7	17	7	14
+Dairyland DX1096 (2X)	22.8	23	--	122.1	100.5	130	117	--	--	11.3	14.4	11	13	--	--
Garno S-90 (2X)	22.9	23	23	120.3	93.3	122	107	122	102	3.0	3.8	10	9	11	9
Pride 3332 (2X)	23.0	--	--	90.1	77.4	--	--	--	--	15.8	15.4	--	--	--	--
Gutwein 2085 (2X)	23.0	--	--	114.2	92.6	--	--	--	--	5.1	8.0	--	--	--	--
+*Pioneer 3906 (2X)	23.1	--	--	130.4	97.6	--	--	--	--	2.3	6.6	--	--	--	--
McKenzie 927 (MSX)	23.1	--	--	88.8	68.8	--	--	--	--	6.4	5.8	--	--	--	--
Amcorn PSX3100 (2X)	23.1	--	--	119.1	90.2	--	--	--	--	5.8	5.1	--	--	--	--
Custom CFS. 1450 (2X)	23.2	--	--	114.5	88.5	--	--	--	--	3.3	5.5	--	--	--	--
Payco SX619 (2X)	23.2	--	--	98.2	81.5	--	--	--	--	7.4	7.0	--	--	--	--
+*Amcorn ZX5500 (2X)	23.2	24	--	132.8	97.7	136	111	--	--	6.3	5.6	9	9	--	--
+*Dairyland DX1004 (2X)	23.2	24	--	138.9	111.4	136	117	--	--	5.9	12.7	14	16	--	--
Garno S-92 (2X)	23.2	--	--	110.3	77.7	--	--	--	--	2.9	12.2	--	--	--	--
Migro HP-277 (2X)	23.3	--	--	114.4	82.4	--	--	--	--	2.1	1.1	--	--	--	--
+*Great Lakes GL-455 (2X)	23.4	24	--	127.9	97.6	140	116	--	--	8.6	12.9	14	18	--	--
Funk G-4256 (3X)	23.5	24	--	114.2	87.6	109	91	--	--	1.5	10.0	12	15	--	--
Stauffer Seeds S4402 (2X)	23.6	--	--	122.6	84.9	--	--	--	--	5.0	12.0	--	--	--	--
Great Lakes GL-466 (2X)	23.6	--	--	118.0	83.8	--	--	--	--	2.5	9.0	--	--	--	--
P.A.G. SX181(2X)	23.7	25	--	124.4	93.7	128	107	--	--	3.8	17.8	13	21	--	--
Pioneer 3780 (2X)	23.7	25	25	119.5	90.6	130	111	127	104	5.1	11.8	6	10	10	9
Gutwein 2210 (2X)	23.8	--	--	113.1	94.8	--	--	--	--	5.3	11.4	--	--	--	--
Garno S-95Y (2X)	23.8	--	--	123.7	89.0	--	--	--	--	8.1	11.5	--	--	--	--
+*Pride 4461 (2X)	23.8	--	--	129.7	97.9	--	--	--	--	1.8	7.0	--	--	--	--
Payco SX620 (2X)	23.9	--	--	121.6	92.7	--	--	--	--	7.1	3.3	--	--	--	--
Wolverine W166 (2X)	24.0	24	--	110.7	91.6	126	113	--	--	5.8	11.4	6	11	--	--
Dairyland DX1099 (2X)	24.0	25	25	115.9	76.5	111	84	109	78	3.6	11.6	10	14	15	14
+*Pioneer 3744 (2X)	24.0	--	--	129.0	107.8	--	--	--	--	3.1	4.7	--	--	--	--
Pickseed 6688 (2X)	24.0	--	--	85.0	73.6	--	--	--	--	13.5	16.1	--	--	--	--
Payco SX611 (2X)	24.1	--	--	125.4	88.2	--	--	--	--	4.3	10.2	--	--	--	--
DeKalb EX1213 (2X)	24.1	--	--	103.8	85.7	--	--	--	--	8.9	8.7	--	--	--	--
Trojan T950 (2X)	24.1	--	--	95.6	68.4	--	--	--	--	4.1	3.0	--	--	--	--
Stauffer Seeds S4800 (2X)	24.1	--	--	113.2	90.2	--	--	--	--	2.8	5.3	--	--	--	--
+Dairyland DX1003 (2X)	24.1	25	--	122.8	99.1	125	110	--	--	6.9	3.7	7	7	--	--
Garno S-94E (2X)	24.4	--	--	116.1	91.6	--	--	--	--	7.5	8.8	--	--	--	--
+*Super Crost 2350 (2X)	24.7	25	25	140.6	100.6	141	119	136	104	4.5	11.0	5	8	7	7

(continued)

Table 17 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre						% Stalk Lodging					
	1981	2	3	1981	2 Years		3 Years			1981	2 Years		3 Years		
		yrs.	yrs.	Irrig	Not Irrig	Irrig	Not Irrig	Not Irrig		Irrig	Not Irrig	Irrig	Not Irrig	Not Irrig	
Custom CFS 4004 (2X)	24.7	--	--	121.1	94.9	--	--	--	--	4.5	9.2	--	--	--	--
DeKalb XL23 (2X)	24.8	27	27	115.1	93.1	125	108	124	96	2.4	10.6	8	12	7	10
Stauffer Seeds B507 (2X)	24.8	26	26	116.0	95.0	130	113	129	101	9.6	3.7	11	9	11	9
+*Great Lakes GL-477 (2X)	24.8	25	--	132.0	99.0	143	122	--	--	7.5	10.8	8	11	--	--
Funk G-4224 (MSX)	24.9	25	25	110.6	89.0	110	96	110	84	4.6	6.3	13	14	10	13
Kaltenberg KX54A (2X)	24.9	--	--	119.8	91.8	--	--	--	--	3.2	1.5	--	--	--	--
Pickseed 6655 (2X)	24.9	--	--	102.4	70.4	--	--	--	--	4.8	7.6	--	--	--	--
Pride 4488 (2X)	25.2	26	27	122.4	89.5	135	114	134	101	3.6	1.9	5	2	4	1
Gutwein 2190 (2X)	25.2	--	--	99.4	74.4	--	--	--	--	10.3	12.9	--	--	--	--
Payco SX756 (2X)	25.5	--	--	99.4	74.5	--	--	--	--	4.3	5.2	--	--	--	--
+*Great Lakes GL-522 (2X)	25.6	--	--	128.8	102.4	--	--	--	--	0.8	2.4	--	--	--	--
Stauffer Seeds S5602 (2X)	25.7	--	--	122.5	88.8	--	--	--	--	3.6	11.6	--	--	--	--
Payco SX844 (2X)	25.8	--	--	125.2	83.9	--	--	--	--	2.4	5.6	--	--	--	--
*McKenzie 409 (2X)	25.9	--	--	128.3	93.6	--	--	--	--	4.2	13.3	--	--	--	--
Hyland HL-2454 (2X)	26.0	--	--	119.4	86.4	--	--	--	--	8.7	9.9	--	--	--	--
Garno S-99 (2X)	26.1	--	--	108.6	87.8	--	--	--	--	3.4	2.4	--	--	--	--
Kaltenberg KX55 (2X)	26.3	--	--	117.0	83.9	--	--	--	--	8.4	6.9	--	--	--	--
Migro HP-23R (2X)	26.3	27	27	110.8	86.6	130	108	125	93	3.6	1.7	9	6	10	6
+*Super Crost 2410 (2X)	26.4	--	--	130.6	98.2	--	--	--	--	6.9	4.1	--	--	--	--
Custom CFS W3610 (2X)	26.5	--	--	124.4	92.6	--	--	--	--	4.3	17.3	--	--	--	--
+*Super Crost 2396 (2X)	26.5	27	--	130.9	101.6	132	108	--	--	3.8	9.7	8	12	--	--
+*Payco SX788 (2X)	26.5	--	--	131.8	101.4	--	--	--	--	8.5	13.1	--	--	--	--
Gutwein 2180 (2X)	26.7	--	--	107.5	85.7	--	--	--	--	7.5	9.3	--	--	--	--
Golden Harvest Exp.436 (2X)	27.0	--	--	113.3	89.4	--	--	--	--	8.5	5.3	--	--	--	--
Trojan T1000 (2X)	27.2	--	--	122.1	89.6	--	--	--	--	4.5	9.1	--	--	--	--
+*Stauffer Seeds B606 (2X)	27.3	27	28	134.8	105.2	150	128	147	114	6.8	2.4	8	6	6	4
Kaltenberg KX68 (2X)	27.9	--	--	126.2	95.9	--	--	--	--	4.6	0.8	--	--	--	--
+DeKalb XL32A (2X)	28.1	--	--	125.0	97.0	--	--	--	--	3.9	5.6	--	--	--	--
+*Migro M-2018X (2X)	28.1	29	29	134.0	107.9	145	124	140	111	3.1	1.5	4	5	5	4
+*Custom CFS 6007 (2X)	28.1	--	--	128.2	108.7	--	--	--	--	3.1	0.0	--	--	--	--
Stauffer Seeds S5260 (2X)	28.2	--	--	107.2	84.7	--	--	--	--	2.0	5.1	--	--	--	--
Migro HP-360 (2X)	28.4	--	--	101.7	80.1	--	--	--	--	2.6	8.3	--	--	--	--
Amcorn PSX7480 (2X)	29.1	--	--	122.7	95.2	--	--	--	--	9.1	20.5	--	--	--	--
*Custom CFS W4000 (2X)	29.3	--	--	128.0	95.6	--	--	--	--	3.1	6.8	--	--	--	--
Payco SX860 (2X)	32.3	--	--	113.7	90.5	--	--	--	--	1.5	6.9	--	--	--	--
Average	24.5	25	25	115.4	87.4	127	107	124	96	5.9	8.6	9	11	8	8
Range	20.2 to 32.3	22 to 29	23 to 29	85.0 to 140.6	62.2 to 111.4	101 to 150	82 to 128	104 to 147	78 to 114	0.7 to 17.8	0.0 to 36.7	4 to 14	2 to 21	4 to 15	1 to 14

(continued)

Table 17 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre						% Stalk Lodging					
	1981	2	3	1981	2 Years	3 Years	1981	2 Years	3 Years	1981	2 Years	3 Years	1981	2 Years	3 Years
	yr.	yr.	yr.	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig Not Irrig
Least Significant Difference	1.6	1.0	0.7	12.3	9.3	9	7	6	5	--	--	--	--	--	--

*Significantly better than average yield, irrigated, in 1981.

+Significantly better than average yield, not irrigated, in 1981.

	1981	1980	1979
Planted	May 2	May 12	May 19
Harvested	November 6	November 11	November 19
Soil Type	Montcalm-McBride sandy loam	Montcalm-McBride sandy loam	Montcalm-McBride sandy loam
Previous Crop	Alfalfa	Alfalfa	Alfalfa
Population	20,850	20,700	20,800
Rows	30"	30"	30"
Fertilizer	323-143-143	315-155-155	213-80-80
Irrigation	4 inches	3 inches	6 inches
Soil Type: pH	5.9	6.9	5.4
P	512 (very high)	528 (very high)	493 (very high)
K	284 (high)	290 (high)	336 (very high)

Farm Cooperator: Theron Comden, Montcalm Experimental Farm, Lakeview

County Extension Director: James Crosby, Stanton

Table 18

NORTH CENTRAL MICHIGAN
Oceana County Trial
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Warwick T778 (MSX)	18.1	---	---	74.9	---	---	24.8	---	---
Warwick T801 (3X)	18.5	---	---	75.9	---	---	21.5	---	---
Migro M-0101 (2X)	18.7	21	22	88.1	95	99	16.8	11	8
Pioneer 3950 (MSX)	19.2	20	22	99.0	94	99	26.5	15	10
Garno S-85X (2X)	19.2	21	---	97.6	108	---	24.5	15	---
Pride 2206 (2X)	19.3	23	23	93.6	101	101	9.2	5	5
Garno S-73 (2X)	19.4	---	---	85.1	---	---	13.2	---	---
Great Lakes 81201 (2X)	19.8	---	---	92.2	---	---	12.6	---	---
Asgrow RX355 (3X)	20.1	---	---	85.8	---	---	30.1	---	---
Pride 2211 (2X)	20.1	---	---	89.3	---	---	28.2	---	---
Golden Harvest Exp.745 (MSX)	20.2	---	---	120.6	---	---	12.2	---	---
*Stauffer Seeds S3306 (2X)	20.2	---	---	128.9	---	---	13.6	---	---
Pioneer 3906 (2X)	20.2	---	---	118.4	---	---	8.8	---	---
P.A.G. SX157 (2X)	20.2	---	---	90.0	---	---	14.5	---	---
*Pioneer 3901 (2X)	20.3	22	23	124.9	119	121	5.7	3	3
Garno S-86 (2X)	20.3	---	---	112.8	---	---	12.0	---	---
DeKalb XL14AA (2X)	20.4	22	---	116.4	121	---	7.7	5	---
Garno S-92 (2X)	20.5	---	---	114.2	---	---	8.5	---	---
Funk G-4141A (MSX)	20.6	22	23	99.0	110	108	6.4	5	4
Great Lakes GL-283 (3X)	20.6	---	---	112.2	---	---	18.9	---	---
Trojan T950 (2X)	20.7	---	---	110.2	---	---	11.2	---	---
*Great Lakes GL-422 (2X)	20.7	22	---	134.4	123	---	9.4	8	---
Pioneer 3958 (2X)	20.8	22	24	96.7	96	97	17.3	11	8
Migro HP-201 (2X)	20.9	---	---	118.1	---	---	12.5	---	---
*Funk G-4224 (MSX)	20.9	---	---	128.8	---	---	12.1	---	---
Garno S-86 (2X)	20.9	---	---	97.9	---	---	8.3	---	---
*Great Lakes GL-456 (2X)	21.0	---	---	125.4	---	---	6.6	---	---
*Amcorn ZX4500 (2X)	21.0	---	---	131.5	---	---	10.1	---	---
Pickseed 6688 (2X)	21.0	---	---	109.0	---	---	17.3	---	---
*Funk Exp. 29097 (2X)	21.1	---	---	123.1	---	---	12.4	---	---
Migro HP-277 (2X)	21.1	---	---	118.0	---	---	3.5	---	---
*Garno S-90 (2X)	21.1	22	24	129.8	120	119	7.4	5	5
Great Lakes GL-455 (2X)	21.2	23	---	121.2	128	---	26.1	16	---
*Amcorn PSX3100 (2X)	21.2	---	---	138.2	---	---	14.4	---	---
Pickseed 6655 (2X)	21.2	---	---	99.1	---	---	10.9	---	---
Amcorn ZX5500 (2X)	21.4	24	---	122.4	125	---	16.4	10	---
Garno S-95Y (2X)	21.5	---	---	124.1	---	---	31.0	---	---
Great Lakes GL-477 (2X)	21.6	23	---	129.9	134	---	8.1	7	---
*Stauffer Seeds S4402 (2X)	21.7	---	---	132.7	---	---	9.5	---	---
O's Gold 2330 (2X)	21.8	---	---	121.9	---	---	9.4	---	---

Table 18 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
DeKalb XL314 (3X)	22.1	---	---	108.7	---	---	17.6	---	---
Funk G-4256 (3X)	22.2	22	---	108.7	101	---	6.3	5	---
DeKalb EX1213 (2X)	22.3	---	---	120.0	---	---	21.6	---	---
Migro M-2022X (2X)	22.9	25	27	105.2	116	117	10.9	6	5
DeKalb XL23 (2X)	23.1	24	---	116.8	120	---	21.4	13	---
Trojan T1000 (2X)	23.4	---	---	113.7	---	---	23.9	---	---
O's Gold 6880 (2X)	23.6	---	---	115.8	---	---	23.8	---	---
*Migro HP-23R (2X)	24.2	25	27	130.2	130	124	7.7	4	3
*Great Lakes GL-522 (2X)	24.3	---	---	125.9	---	---	17.3	---	---
DeKalb XL32A (2X)	24.6	---	---	119.0	---	---	13.0	---	---
Average	20.9	22	24	110.3	114	109	14.5	8	6
Range	18.1	20	22	74.9	94	97	3.5	3	3
	to	to	to	to	to	to	to	to	to
	24.6	25	27	138.2	134	124	31.0	16	10
Least Significant Difference	1.4	0.9	0.7	12.1	7	5	--	--	--

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 4	May 13	May 10
Harvested	November 13	November 15	November 14
Soil Type	Arenac and Iosco Loamy sand	Arenac and Iosco Loamy sand	Arenac and Iosco Loamy sand
Previous Crop	Corn	Corn	Corn seeded to rye
Population	20,900	21,100	20,900
Rows	30"	30"	30"
Fertilizer	245-144-111	220-52-127 + 1% Zn	220-52-172 + 2% Zn
Irrigation	6 times @ 1"=6 in.	3 times @ 1"=3 in.	8 times @ 1"=8 in.
Soil Test: pH	6.3	6.9	6.0
P	282 (very high)	237 (very high)	404 (very high)
K	360 (very high)	286 (high)	219 (high)

Farm Cooperator: Elmer Gowell, Rothbury

County Extension Director: Ed Strong, Hart

(continued)

Table 19

NORTHERN MICHIGAN
Grand Traverse County Trial
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 4

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Pickseed 3255A (2X)	19.5	---	---	73.9	---	---	12.7	---	---
Warwick T778 (MSX)	19.8	---	---	88.2	---	---	8.3	---	---
Farm Bureau FB-S259 (2X)	20.0	21	24	82.8	83	81	8.9	11	8
Funk G-4065 (MSX)	20.3	22	25	79.4	74	69	11.6	12	11
Garno S-69 (2X)	20.4	21	25	83.8	83	72	14.3	18	15
Garno S-73 (2X)	20.8	22	---	82.7	82	---	8.0	10	---
DeKalb DK24 (3X)	21.0	22	25	70.3	78	79	17.2	20	16
Great Lakes 81203 (2X)	21.2	---	---	90.4	---	---	6.7	---	---
Pride 1169 (2X)	21.6	---	---	92.8	---	---	11.4	---	---
Great Lakes GL-203 (3X)	21.9	---	---	88.8	---	---	6.8	---	---
Farm Bureau FB-2610 (MSX)	22.3	---	---	91.0	---	---	11.6	---	---
Trojan TX85 (3X)	22.6	23	---	72.5	71	---	9.3	10	---
Pride 1131 (2X)	22.9	23	---	74.5	84	---	3.8	6	---
Funk G-4085 (3X)	22.9	24	27	75.2	84	74	14.3	10	8
Garno S-85X (2X)	23.1	24	---	91.0	101	---	7.8	8	---
McKenzie 707 (3X)	23.3	---	---	84.0	---	---	6.4	---	---
Pickseed 2333 (2X)	23.3	---	---	74.4	---	---	9.3	---	---
Farm Bureau FB-S265 (2X)	23.4	24	---	86.6	89	---	6.2	10	---
DeKalb XL11 (2X)	23.5	---	27	74.1	---	78	7.1	---	7
*Pioneer 3950 (MSX)	23.6	24	27	93.8	103	96	2.4	3	2
Stauffer Seeds B101 (2X)	23.6	24	---	76.0	86	---	6.7	9	---
*McKenzie 858 (2X)	23.7	---	---	96.2	---	---	13.6	---	---
Migro M-0101 (2X)	23.8	24	28	74.0	95	90	11.9	9	7
*Northrup King PK14 (2X)	24.1	24	26	94.0	94	91	8.3	6	5
Hyland HL-2428 (2X)	24.1	---	---	83.3	---	---	10.1	---	---
Great Lakes GL-283 (3X)	24.2	---	---	91.0	---	---	10.9	---	---
Funk G-4042 (MSX)	24.5	24	---	82.4	84	---	7.3	8	---
*Pride 2211 (2X)	25.1	---	---	102.9	---	---	9.6	---	---
Pride 2206 (2X)	25.1	25	28	93.2	100	92	5.1	6	4
Stauffer Seeds S2202 (2X)	25.1	---	---	88.2	---	---	16.7	---	---
Trojan TX90 (3X)	25.2	26	29	81.4	80	78	1.5	4	4
Great Lakes 81201 (2X)	25.4	---	---	82.6	---	---	7.0	---	---
*Pioneer 3958 (2X)	25.6	27	30	100.0	109	91	4.4	3	3
Amcorn ZX3500 (2X)	25.7	---	---	78.9	---	---	5.1	---	---
DeKalb XL8 (2X)	25.9	---	---	88.5	---	---	0.0	---	---
Hyland HL-2442 (2X)	26.2	26	---	82.3	95	---	7.3	6	---
Northrup King PK9199 (2X)	26.4	---	---	85.4	---	---	3.5	---	---
Garno S-86 (2X)	26.5	---	---	80.7	---	---	5.4	---	---
Farm Bureau FB-M-279 (MSX)	26.7	---	---	85.4	---	---	5.3	---	---
Migro HP-201 (2X)	27.1	---	---	77.8	---	---	3.5	---	---
Northrup King PK9252 (2X)	27.2	---	---	75.6	---	---	2.9	---	---
*Amcorn ZX4500 (2X)	27.3	---	---	107.3	---	---	4.9	---	---
McKenzie 901 (3X)	27.5	---	---	78.1	---	---	12.0	---	---
Kaltenberg KX39 (2X)	27.5	---	---	91.4	---	---	5.1	---	---
*Garno S-90 (2X)	27.8	29	31	94.4	108	102	3.1	5	3
*McKenzie 409 (2X)	27.8	---	---	99.0	---	---	5.1	---	---
McKenzie 927 (MSX)	28.2	---	---	84.0	---	---	8.0	---	---
DeKalb EX1213 (2X)	28.5	---	---	88.0	---	---	3.7	---	---
*Great Lakes GL-422 (2X)	28.6	---	---	94.9	---	---	7.5	---	---
*Pioneer 3901 (2X)	28.7	28	30	109.1	120	109	3.5	2	2
*McKenzie 987 (2X)	29.9	---	---	98.5	---	---	6.4	---	---
Kaltenberg KX55 (2X)	30.4	---	---	76.4	---	---	5.8	---	---
DeKalb XL314 (3X)	32.2	---	---	79.6	---	---	8.3	---	---
Great Lakes GL-456 (2X)	32.3	---	---	79.6	---	---	5.2	---	---
Average	25.2	24	27	84.2	91	86	7.9	8	7
Range	19.5	21	24	70.3	71	69	0.0	2	2
	32.3	29	31	109.1	120	109	17.2	20	16
Least Significant Difference	1.5	1.0	0.8	9.6	7	5	---	---	---

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 13	May 16	May 18
Harvested	November 12	November 6	November 17
Soil Type	Coventry-Newaygo Loam	Coventry-Newaygo Loam	Coventry-Newaygo Loam
Previous Crop	Corn	Corn	Corn
Population	21,000	20,700	20,900
Rows	30"	36"	36"
Fertilizer	125-64-60	126-92-60, manure	136-92-36
Soil Test: pH	6.6	6.3	6.6
P	512 (very high)	603 (very high)	514 (very high)
K	492 (very high)	554 (very high)	536 (very high)

Farm Cooperator: George Svec, Buckley

County Extension Director: George McManus, Traverse City

Table 20

NORTHERN MICHIGAN
Missaukee County Trial - Silage
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 4

Hybrid (Brand-Variety)	% Dry Matter			Green Weight			Tons Per Acre		
	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Pickseed 2333 (2X)	34.6	---	---	12.7	---	---	4.4	---	---
Warwick T778 (MSX)	33.2	---	---	13.6	---	---	4.5	---	---
Trojan TX85 (2X)	33.0	30.6	29.6	11.4	11.7	13.2	3.8	3.6	3.8
Funk G-4065 (MSX)	32.3	30.8	---	14.4	12.9	---	4.6	4.0	---
Pride 1131 (2X)	31.7	30.2	---	15.9	15.2	---	5.0	4.6	---
DeKalb XL6 (2X)	31.2	29.9	---	15.3	14.6	---	4.8	4.4	---
Dairyland DX1082 (2X)	30.8	---	---	15.4	---	---	4.8	---	---
Garno S-73 (2X)	30.6	29.1	---	15.4	14.5	---	4.7	4.2	---
Pickseed 2555A (2X)	30.5	---	---	17.1	---	---	5.2	---	---
Dairyland DX285 (3X)	30.5	---	---	15.2	---	---	4.6	---	---
Pioneer 3950 (2X)	29.7	27.5	26.5	16.4	15.8	16.2	4.9	4.4	4.3
Pride 1169 (2X)	29.0	---	---	16.8	---	---	4.9	---	---
Garno S-85X (2X)	28.9	27.0	---	17.5	16.6	---	5.0	4.5	---
Pioneer 3958 (2X)	28.8	26.2	25.7	17.9	16.9	17.9	5.2	4.5	4.6
Funk G-4085 (3X)	28.6	27.9	27.3	15.0	14.4	15.1	4.3	4.0	4.1
Dairyland DX1085 (2X)	28.0	---	---	16.7	---	---	4.7	---	---
O's Gold Exp. 23101 (2X)	27.8	---	---	18.6	---	---	5.2	---	---
DeKalb XL11 (2X)	27.8	26.5	26.0	16.7	16.9	16.8	4.7	4.5	4.3
DeKalb XL13 (2X)	26.9	25.4	24.7	18.9	16.2	17.7	5.1	4.1	4.4
Great Lakes GL-283 (3X)	26.2	---	---	20.2	---	---	5.3	---	---
Golden Harvest Exp 809 (MSX)	26.2	---	---	15.3	---	---	4.0	---	---
Dairyland DX1096 (2X)	26.1	---	---	17.7	---	---	4.6	---	---
DeKalb XL8 (2X)	25.8	---	---	18.0	---	---	4.7	---	---
Farm Bureau FB-M-279 (MSX)	25.7	24.5	---	17.7	17.4	---	4.5	4.2	---
O's Gold 2330 (2X)	25.0	---	---	17.4	---	---	4.3	---	---
Pioneer 3901 (2X)	24.7	24.0	23.3	21.6	20.2	20.2	5.3	4.8	4.7
Pride 2211 (2X)	24.3	---	---	18.3	---	---	4.5	---	---
Garno S-90 (2X)	24.3	23.8	---	18.7	17.8	---	4.6	4.2	---
DeKalb EX1213 (2X)	24.3	---	---	16.6	---	---	4.0	---	---
Funk G-4042 (MSX)	24.3	24.1	---	16.9	16.5	---	4.1	4.0	---
Average	28.0	27.1	26.1	16.6	15.8	16.7	4.6	4.2	4.3
Range	24.3	23.8	23.3	11.4	11.7	13.2	3.8	3.6	3.8
	34.6	30.8	29.6	21.6	20.2	20.2	5.3	4.8	4.7
Least Significant Difference	2.5	1.7	1.2	1.8	1.4	1.0	0.5	0.4	0.3

	1981	1980	1979
Planted	May 16	May 17	May 17
Harvested	September 21	September 18	September 21
Soil Type	Marlette sandy Loam	Marlette sandy Loam	Marlette sandy Loam
Previous Crop	Corn	Corn	Corn
Population	20,100	20,200	19,900
Rows	30"	30"	30"
Fertilizer	128-32-137	123-30-145	109-36-36
Soil Test: pH	6.2	6.4	5.3
P	98 (high)	85 (high)	73 (high)
K	268 (high)	128 (medium)	128 (low)

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

County Extension Director: Vern VandePol, Lake City

Table 21

NORTHERN MICHIGAN
Alpena County Trial - Grain
One and Two Year Averages - 1981, 1980 (No Results In 1979)

Zone 4

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
*Great Lakes 81203 (2X)	22.7	23	---	102.1	97	---	11.1	27	---
*Farm Bureau FB-S259 (2X)	23.4	---	---	102.6	---	---	10.1	---	---
Warwick T778 (MSX)	23.6	23	---	80.0	72	---	8.3	19	---
Pride 1122 (2X)	23.7	---	---	100.6	---	---	3.2	---	---
Funk G-4042 (MSX)	23.8	23	---	80.9	72	---	14.0	14	---
Garno S-73 (2X)	23.8	23	---	94.0	90	---	11.9	18	---
Farm Bureau FB-2610 (MSX)	24.0	---	---	100.2	---	---	7.1	---	---
Funk G-4065 (MSX)	24.1	24	---	96.2	78	---	17.3	36	---
DeKalb XL11 (2X)	24.1	---	---	84.8	---	---	9.0	---	---
*Warwick W844 (MSX)	25.0	25	---	103.6	94	---	22.5	28	---
Great Lakes GL-203 (3X)	25.1	---	---	97.3	---	---	6.7	---	---
Pickseed 2555A (2X)	25.4	---	---	79.3	---	---	13.0	---	---
Garno S-69 (2X)	25.5	24	---	97.8	91	---	14.5	23	---
Funk G-4085 (3X)	25.5	---	---	92.4	---	---	6.6	---	---
*Stauffer Seeds S2101WX (2X)	25.5	---	---	107.0	---	---	10.6	---	---
Pickseed 2333 (2X)	25.6	---	---	83.1	---	---	13.1	---	---
Stauffer Seeds S2184 (2X)	25.7	---	---	97.4	---	---	10.0	---	---
Northrup King PK14 (2X)	26.0	25	---	95.3	94	---	10.5	15	---
*Great Lakes GL-283 (3X)	26.1	---	---	108.7	---	---	7.4	---	---
ACCO Paymaster UC1108 (2X)	26.5	24	---	90.3	90	---	6.8	15	---
*Pride R141 (3X)	26.9	25	---	110.9	99	---	3.4	9	---
ACCO Paymaster UC1124 (2X)	27.7	26	---	96.3	80	---	11.2	18	---
DeKalb XL6 (2X)	27.9	26	---	91.4	82	---	2.8	14	---
Voris V2301 (2X)	28.4	---	---	97.0	---	---	3.7	---	---
Great Lakes 81201 (2X)	28.4	---	---	91.2	---	---	19.1	---	---

Table 21 (continued)

Hybrid (Brand-Variety)	% Moisture		Bushels Per Acre		% Stalk Lodging	
	1981	2 yr.	1981	2 yr.	1981	2 yr.
Garno S-85X (2X)	28.5	28	97.9	81	8.0	18
DeKalb XL13 (2X)	28.6	29	98.0	88	11.3	13
*Pioneer 3950 (MSX)	29.0	28	115.9	98	3.0	6
Garno S-82E (2X)	29.8	30	93.3	84	3.3	10
Stauffer Seeds B302 (2X)	30.5	--	98.9	--	3.1	--
Pride 1132 (2X)	30.5	--	81.4	--	5.5	--
Northrup King PX9252 (2X)	30.7	--	94.6	--	10.9	--
Hyland HL-2428 (2X)	31.5	--	98.1	--	14.7	--
DeKalb XL8 (2X)	31.5	--	92.9	--	1.5	--
Voris VX291 (2X)	32.2	--	98.7	--	8.9	--
Stauffer Seeds Exp.2100WX (2X)	32.6	--	84.4	--	20.9	--
*Golden Harvest Exp.745 (MSX)	32.6	--	102.0	--	1.4	--
Trojan TX90 (3X)	32.9	29	81.0	78	5.4	15
Garno S-86 (2X)	33.1	--	83.5	--	3.1	--
*Stauffer Seeds S3306 (2X)	33.2	--	108.2	--	8.2	--
*Pioneer 3901 (2X)	33.3	32	106.6	93	1.4	7
Stauffer Seeds S2202 (2X)	33.4	--	88.3	--	2.3	--
*Garno S-90 (2X)	33.5	33	109.3	99	5.3	8
*Great Lakes GL-422 (2X)	33.6	33	105.1	97	2.1	4
Northrup King PX9199 (2X)	33.9	--	83.7	--	1.5	--
Voris V2331 (2X)	34.1	--	85.0	--	3.0	--
Pioneer 3958 (2X)	34.7	32	82.9	79	2.9	8
Stauffer Seeds S4402 (2X)	34.9	--	92.3	--	2.3	--
Golden Harvest Exp.809 (MSX)	35.0	--	80.9	--	2.6	--
*DeKalb EX1213 (2X)	35.4	--	109.4	--	5.9	--
Average	29.1	27	93.0	87	8.3	15
Range	22.7 to 35.4	23 to 33	79.3 to 115.9	72 to 99	1.4 to 22.5	4 to 36
Least Significant Difference	1.7	1.2	8.8	7	--	--

*Significantly better than average yield in 1981.

	1981	1980	1979
Planted	May 21	May 16	May 17
Harvested	November 10	November 7	October 20
Soil Type	Onaway fine sandy loam	Onaway sandy loam	Bohemian very fine sandy loam
Previous Crop	Sunflowers	Corn	Corn
Population	21,000	21,200	19,100
Rows	30"	28"	28"
Fertilizer	156-84-84, manure	46-46-46, chicken manure	138-38-38, manure
Soil Test: pH	6.5	7.5	7.2
P	43 (medium)	602 (very high)	56 (medium)
K	300 (high)	756 (very high)	122 (low)

Farm Cooperator: Steve Gonyea, Ossineke (1981); Robert Cornell, Posen (1980 and 1979)

County Extension Director: Roger Manning, Alpena

Table 22

NORTHERN MICHIGAN
Alpena County Trial - Silage
One and Two Year Averages - 1981, 1980 (No 1979 Data)

Zone 4

Hybrid (Brand-Variety)	% Dry Matter		Green Weight		Tons Per Acre Dry Weight	
	1981	2 yr.	1981	2 yr.	1981	2 yr.
Warwick T778 (MSX)	32.4	35.6	18.7	16.1	6.0	5.6
Pickseed 2333 (2X)	31.8	--	18.7	--	6.0	--
Farm Bureau FB-S-259 (2X)	30.8	33.7	18.8	17.1	5.8	5.7
Garno S-69 (2X)	30.5	33.6	21.0	17.9	6.4	5.9
Garno S-82E (2X)	29.9	29.6	20.8	20.1	6.2	5.9
Pride R 141 (3X)	29.9	32.1	19.7	18.6	5.9	6.0
Farm Bureau FB-2610 (MSX)	29.9	--	23.8	--	7.1	--
Funk G-4065 (MSX)	29.5	31.7	21.4	18.4	6.2	5.7
ACCO Paymaster UC1108 (2X)	28.7	30.8	22.8	20.0	6.6	6.1
DeKalb XL11 (2X)	28.6	--	22.8	--	6.5	--
Stauffer Seeds S2184 (2X)	28.3	--	19.9	--	5.6	--
Garno S-85X (2X)	28.3	28.6	21.7	21.2	6.1	6.0
Pride 1132 (2X)	28.1	--	21.4	--	6.0	--
Great Lakes GL-203 (3X)	28.0	30.5	22.1	20.2	6.2	6.1
Stauffer Seeds B302 (2X)	28.0	--	21.5	--	6.0	--
DeKalb XL6 (2X)	27.9	30.3	23.1	20.3	6.5	6.1
Great Lakes 81203 (2X)	27.8	--	20.2	--	5.6	--
Funk G-4085 (3X)	27.8	--	22.8	--	6.3	--
Pioneer 3958 (2X)	27.6	28.4	22.1	19.7	6.1	5.6
Warwick W844 (2X)	27.1	31.7	21.8	19.4	6.0	6.0
Pride 1122 (2X)	27.1	--	22.3	--	6.0	--
Hyland HL-2428 (2X)	27.1	--	25.3	--	6.8	--
Northrup King PX14 (2X)	26.9	29.6	21.5	20.1	5.8	5.9
Garno S-73 (2X)	26.7	29.4	22.0	19.2	5.9	5.6
ACCO Paymaster UC1124 (2X)	26.6	29.0	23.6	21.6	6.3	6.2
DeKalb XL13 (2X)	26.6	26.8	25.9	25.9	6.9	6.9

(continued)

Table 22 (continued)

Hybrid (Brand-Variety)	% Dry Matter		Green Weight		Tons Per Acre Dry Weight	
	1981	2 yr.	1981	2 yr.	1981	2 yr.
Golden Harvest Exp.809 (MSX)	26.6	---	20.4	---	5.4	---
Garno S-86 (2X)	26.2	---	20.9	---	5.5	---
Stauffer Seeds Exp.2100WX (2X)	26.2	---	24.0	---	6.3	---
Great Lakes GL-283 (3X)	26.2	28.4	26.0	23.8	6.8	6.7
Voris VX291 (2X)	26.0	---	24.8	---	6.4	---
Stauffer Seeds S2101WX (2X)	25.9	---	22.5	---	5.8	---
DeKalb EX1213 (2X)	25.8	---	25.4	---	6.5	---
Pickseed 2555A (2X)	25.7	---	25.8	---	6.6	---
Stauffer Seeds S3306 (2X)	25.7	---	26.1	---	6.7	---
Pioneer 3950 (MSX)	25.3	27.9	21.7	21.2	5.5	5.9
DeKalb XL8 (2X)	25.2	---	23.9	---	6.0	---
Stauffer Seeds S4402 (2X)	25.2	---	25.3	---	6.4	---
Voris V2331 (2X)	25.0	---	26.3	---	6.6	---
Garno S-90 (2X)	24.8	25.3	26.2	25.8	6.5	6.5
Great Lakes GL-422 (2X)	24.7	25.1	25.9	25.6	6.4	6.4
Stauffer Seeds S2202 (2X)	24.6	---	23.7	---	5.8	---
Northrup King PX9199 (2X)	24.4	---	26.8	---	6.6	---
Golden Harvest Exp.745 (MSX)	23.9	---	25.7	---	6.2	---
Funk G-4042 (MSX)	23.9	25.8	24.8	22.1	5.8	5.6
Pioneer 3901 (2X)	23.6	24.4	27.6	25.7	6.5	6.2
Great Lakes 81201 (2X)	23.5	---	23.6	---	5.6	---
Trojan TX90 (3X)	23.5	26.2	23.2	20.2	5.5	5.2
Voris V2301 (2X)	22.9	---	26.9	---	6.1	---
Northrup King PX9252 (2X)	22.9	---	30.1	---	6.9	---
Average	26.4	29.1	23.2	20.9	6.2	5.9
Range	22.9 to 32.4	24.4 to 35.6	18.7 to 30.1	16.1 to 25.9	5.4 to 7.1	5.2 to 6.9
Least Significant Difference	1.9	1.5	1.5	1.1	0.8	0.6

	1981	1980
Planted	May 21	May 16
Harvested	September 21	September 18
Soil Type	Onaway fine sandy loam	Onaway sandy loam
Previous Crop	Sunflowers	Corn
Population	22,100	21,700
Rows	30"	28"
Fertilizer	156-84-84, manure	46-46-46, chicken manure
Soil Test: pH	6.5	7.5
P	43 (medium)	602 (very high)
K	300 (high)	756 (very high)

Farm Cooperators: Steve Gonyea, Ossineke (1981); Robert Cornell, Posen (1980)

County Extension Director: Roger Manning, Alpena

Table 23

NORTHERN MICHIGAN
Alger County Trial - Silage
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 4

Hybrid (Brand-Variety)	% Dry Matter		Green Weight		Tons Per Acre Dry Weight	
	1981	2 yr.	1981	2 yr.	1981	2 yr.
Warwick T778 (MSX)	42.0	---	13.7	---	5.8	---
Funk G-4065 (MSX)	41.7	39.1 34.9	14.0	16.5 16.2	5.8	6.3 5.6
DeKalb DK24F (3X)	40.2	---	14.4	---	5.7	---
DeKalb DK24 (3X)	38.8	36.2 34.2	10.8	13.8 14.5	4.2	4.9 4.9
DeKalb XL11 (2X)	38.1	37.9	13.6	17.2	5.2	6.5
Kaltenberg KK28 (2X)	38.1	---	14.0	---	5.4	---
DeKalb XL6 (2X)	38.0	35.0	14.7	17.7	5.6	6.1
Garno S-82E (2X)	37.7	---	13.1	---	4.9	---
Pride 1132 (2X)	37.4	---	12.7	---	4.7	---
Warwick T801 (3X)	37.2	---	13.4	---	5.0	---
Pioneer 3950 (MSX)	36.8	34.9 31.6	14.3	18.0 18.8	5.2	6.2 5.8
Garno S-73 (2X)	36.6	---	14.3	---	5.2	---
Kaltenberg KK221 (MSX)	36.3	---	14.1	---	5.1	---
Funk G-4042 (MSX)	35.4	34.3	14.7	17.9	5.2	6.1
Great Lakes GL-203 (3X)	34.9	---	11.8	---	4.1	---
Pride 1122 (2X)	34.8	---	15.7	---	5.5	---
Pioneer 3958 (2X)	34.1	32.1 29.2	15.0	17.5 17.9	5.1	5.5 5.1
Pride R141 (3X)	34.0	---	13.8	---	4.7	---
DeKalb XL8 (2X)	32.9	---	15.4	---	5.1	---
DeKalb XL13 (2X)	32.7	---	16.6	---	5.4	---
Kaltenberg KK31 (2X)	32.7	---	14.2	---	4.7	---
Midland 488 (MSX)	31.8	---	14.5	---	4.5	---
Great Lakes GL-283 (3X)	31.3	---	15.9	---	5.0	---
Pioneer 3901 (2X)	30.7	31.1 28.1	17.9	20.7 21.1	5.5	6.4 5.9
DeKalb EX1213 (2X)	29.9	---	14.8	---	4.4	---
Average	35.8	34.8 31.6	14.3	17.3 17.7	5.1	5.9 5.5
Range	29.9 to 42.0	31.1 to 39.1 28.1 to 34.9	10.8 to 17.9	13.8 to 21.1	4.1 to 5.8	4.9 to 6.5 4.9 to 5.9
Least Significant Difference	2.3	1.5 1.0	1.5	1.3 1.0	0.8	0.7 0.6

(continued) 23

Table 23 (continued)

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre					
				Green Weight			Dry Weight		
	1981	2	3	1981	2	3	1981	2	3
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Planted	May 14			May 2			May 10		
Harvested	October 13			September 14			October 10		
Soil Type	Chatham stoney loam			Chatham stoney loam			Chatham stoney loam		
Previous Crop	Oats			Sunflowers			Corn		
Population	20,800			19,700			21,300		
Rows	36"			36"			36"		
Fertilizer	108-75-75			115-75-75			100-75-75		
Soil Test: pH	7.7			---			---		
P	152 (very high)			---			---		
K	168 (medium)			---			---		

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

Table 24

NORTHERN MICHIGAN
Menominee County Trial - Grain
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 4

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Northrup King PX9040 (2X)	21.6	---	---	44.5	---	---	32	---	---
Warwick W777 (2X)	22.3	24	24	69.3	103	104	40	13	9
Pride 1122 (2X)	22.4	---	---	74.4	---	---	27	---	---
Warwick T778 (MSX)	22.4	24	---	62.4	90	---	22	18	---
Kaltenberg KX28 (2X)	23.7	---	---	56.6	---	---	38	---	---
Pickseed 2277	23.8	---	---	77.9	---	---	34	---	---
DeKalb DK24F (3X)	24.9	---	---	65.2	---	---	14	---	---
Pickseed 2555	25.0	---	---	58.7	---	---	20	---	---
Funk G-4065 (MSX)	25.5	26	25	82.4	109	102	22	17	12
Garno S-69 (2X)	25.6	---	---	69.5	---	---	16	---	---
Garno S-73 (2X)	25.9	---	---	65.7	---	---	12	---	---
McKenzie 707 (3X)	26.3	---	---	80.8	---	---	28	---	---
Hyland HL-2219 (2X)	27.1	---	---	70.6	---	---	28	---	---
*Warwick W8308 (3X)	27.9	---	---	100.4	---	---	31	---	---
ACCO Paymaster UC1108 (2X)	28.0	27	---	67.3	105	---	23	9	---
DeKalb XL6 (2X)	28.3	28	---	69.2	95	---	37	13	---
Funk G-4085 (3X)	28.7	31	31	79.7	92	92	11	12	8
Midland M180 (2X)	28.7	32	---	53.4	93	---	17	8	---
Kaltenberg KX221 (MSX)	28.9	---	---	61.6	---	---	12	---	---
Northrup King PX11 (2X)	29.2	29	27	79.5	114	114	16	12	8
DeKalb DK24 (3X)	29.2	---	---	61.7	---	---	18	---	---
Stauffer Seeds S2184 (2X)	29.6	---	---	74.9	---	---	27	---	---
McKenzie 858 (2X)	29.9	---	---	82.6	---	---	9	---	---
Pride 1131 (2X)	30.1	28	---	67.4	107	---	18	10	---
Kaltenberg KX31 (2X)	30.9	---	---	69.4	---	---	26	---	---
*Pride 1169 (2X)	31.2	---	---	100.5	---	---	11	---	---
Northrup King PX7 (2X)	31.5	30	30	72.3	105	105	9	10	6
Pride 1132 (2X)	31.9	---	---	78.8	---	---	9	---	---
Pioneer 3950 (MSX)	32.2	31	31	81.9	111	111	7	2	2
Northrup King PX14 (2X)	33.5	31	---	80.7	113	---	15	7	---
DeKalb XL11 (2X)	33.9	33	---	82.1	110	---	3	6	---
*Pioneer 3958 (2X)	34.0	35	35	93.1	113	112	15	6	4
Stauffer Seeds S2101WX (2X)	34.0	---	---	65.7	---	---	15	---	---
Funk G-4042 (MSX)	34.3	32	---	73.3	100	---	5	9	---
*Stauffer Seeds Exp. 2100WX (2X)	35.9	---	---	98.5	---	---	16	---	---
Midland M393 (3X)	35.9	---	---	68.7	---	---	5	---	---
*Jung 2300 (2X)	36.0	33	---	100.7	119	---	9	7	---
Stauffer Seeds B302WX (2X)	36.3	35	35	80.3	111	106	18	8	5
Hyland HL-2428 (2X)	36.8	---	---	72.5	---	---	20	---	---
Garno S-85X (2X)	37.1	---	---	80.0	---	---	12	---	---
Jung 2390 (2X)	37.3	---	---	75.0	---	---	8	---	---
Pride 2206 (2X)	37.7	37	---	83.6	112	---	5	4	---
*Pride 2211 (2X)	37.9	---	---	99.3	---	---	8	---	---
*Pioneer 3906 (2X)	38.2	38	---	106.0	134	---	12	2	---
Jung 2404 (2X)	38.3	---	---	75.4	---	---	4	---	---
DeKalb EX1213 (2X)	38.7	---	---	75.9	---	---	3	---	---
*DeKalb XL8 (2X)	38.8	---	---	103.4	---	---	1	---	---
Midland M193 (2X)	39.1	36	---	81.7	110	---	9	3	---
DeKalb XL13 (2X)	39.1	38	---	65.3	113	---	11	7	---
Stauffer Seeds S2202 (2X)	40.2	---	---	80.7	---	---	12	---	---
*Stauffer Seeds S3306 (2X)	40.3	---	---	92.2	---	---	3	---	---
*Pioneer 3901 (2X)	40.6	39	39	129.5	154	145	7	5	3
*Garno S-90 (2X)	41.2	---	---	94.6	---	---	6	---	---
*Jung 2525 (2X)	42.4	---	---	91.0	---	---	13	---	---
Stauffer Seeds S4402 (2X)	44.8	---	---	86.8	---	---	13	---	---

(continued)

Table 24 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1981	2	3	1981	2	3	1981	2	3
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Average	32.3	32	31	78.0	110	110	16	8	6
Range	21.6	24	24	44.5	90	92	1	2	2
	to	to	to	to	to	to	to	to	to
	44.8	39	39	129.5	154	145	40	18	12
Least Significant Difference	3.0	2.3	2.0	10.2	11	9	---	---	---
*Significantly better than average yield in 1981.									
Planted	1981			1980			1979		
Harvested	May 1			April 30			May 16		
Soil Type	October 7			September 29			October 18		
	Onaway loam			Onaway loam - sandy loam			Onaway loam - sandy loam		
Previous Crop	Corn			Corn			Corn		
Population	18,000			21,000			21,200		
Rows	30"			30"			30"		
Fertilizer	145-55-55			122-77-77, 15 tons manure			200-92-132 + 22 lbs sulfur		
Soil Test: pH	7.4			---			---		
P	53 (medium)			---			---		
K	288 (high)			---			---		

Farm Cooperator: Nick Thoney, Daggett

County Extension Director: Richard A. Breyer, Stephenson

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

Table 25

NORTHERN MICHIGAN
Menominee County Trial - Silage
One, Two, Three Year Averages - 1981, 1980, 1979

Zone 4

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre					
				Green Weight			Dry Weight		
	1981	2	3	1981	2	3	1981	2	3
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Kaltenberg KX28 (2X)	56	---	---	8.0	---	---	4.5	---	---
Midland M180 (2X)	54	49	---	8.7	13.1	---	4.8	6.2	---
Pickseed 2277	52	---	---	10.5	---	---	5.3	---	---
Warwick T778 (MSX)	51	51	---	9.4	12.7	---	4.8	6.5	---
Stauffer Seeds S2184 (2X)	50	---	---	10.1	---	---	4.9	---	---
Northrup King PX11 (2X)	50	48	44	9.2	13.7	14.0	4.7	6.5	6.1
DeKalb DK24F (3X)	49	---	---	12.1	---	---	5.5	---	---
Midland M193	49	45	---	10.8	13.5	---	5.2	5.9	---
Northrup King PX14 (2X)	49	48	---	10.4	14.7	---	4.6	6.7	---
McKenzie 707 (3X)	48	---	---	9.1	---	---	4.3	---	---
Northrup King PX7 (2X)	48	45	41	8.5	12.6	14.3	4.0	5.5	5.5
Pride 1131 (2X)	47	47	---	11.8	14.9	---	5.5	7.0	---
Garno S-73 (2X)	47	---	---	11.9	---	---	5.4	---	---
ACCO Paymaster UC1108 (2X)	47	51	---	10.8	15.6	---	4.9	8.1	---
Funk G-4065 (MSX)	47	47	42	10.4	12.9	13.9	4.9	6.0	5.7
Kaltenberg KX31 (2X)	47	---	---	10.2	---	---	4.6	---	---
Jung 2300 (2X)	46	48	---	13.0	17.0	---	5.9	8.1	---
McKenzie 858 (2X)	46	---	---	12.1	---	---	5.5	---	---
Kaltenberg KX221 (MSX)	46	---	---	11.0	---	---	5.1	---	---
Pride 2206 (2X)	46	43	---	10.9	15.9	---	4.8	6.5	---
DeKalb EX1213 (2X)	46	---	---	11.0	---	---	4.7	---	---
Garno S-69 (2X)	46	---	---	9.9	---	---	4.6	---	---
Funk G-4085 (3X)	46	43	39	9.8	13.1	14.0	4.5	5.5	5.3
DeKalb XL6 (2X)	45	46	---	12.1	13.8	---	5.5	6.3	---
Pioneer 3958 (2X)	45	44	40	11.0	15.1	15.5	4.9	6.6	6.1
Pioneer 3906 (2X)	45	49	---	10.6	18.0	---	4.6	9.1	---
Pioneer 3950 (MSX)	45	47	43	9.9	14.5	14.4	4.3	6.8	4.3
Hyland HL-2219 (2X)	45	---	---	9.5	---	---	4.3	---	---
Stauffer Seeds S2101WX (2X)	45	---	---	8.5	---	---	3.9	---	---
DeKalb XL8 (2X)	45	---	---	9.1	---	---	3.8	---	---
Garno S-90 (2X)	44	---	---	15.8	---	---	6.6	---	---
DeKalb XL13 (2X)	44	41	---	13.6	18.9	---	5.8	7.5	---
DeKalb DK24 (3X)	44	---	---	11.8	---	---	5.1	---	---
Jung 2404 (2X)	44	---	---	11.5	---	---	4.8	---	---
DeKalb XL11 (2X)	44	43	---	11.3	14.8	---	4.8	6.3	---
Pride 1132 (2X)	44	---	---	10.3	---	---	4.5	---	---
Stauffer Seeds S3306 (2X)	43	---	---	15.7	---	---	6.1	---	---
Stauffer Seeds S4402 (2X)	43	---	---	14.6	---	---	6.1	---	---
Funk G-4042 (MSX)	43	45	---	12.0	15.8	---	5.2	7.3	---
Stauffer Seeds S2202 (2X)	42	---	---	14.0	---	---	5.7	---	---

(continued)

Table 25 (continued)

Hybrid (Brand-Variety)	1 Dry Matter			Green Weight			Tons Per Acre Dry Weight		
	2	3		2	3		2	3	
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Pride 1122 (2X)	42	---	---	11.9	---	---	4.9	--	--
Jung 2390 (2X)	42	---	---	11.3	---	---	4.7	--	--
Pickseed 2555	42	---	---	11.2	---	---	4.5	--	--
Pride 1169 (2X)	42	---	---	11.5	---	---	3.9	--	--
Jung 2525 (2X)	41	---	---	12.9	---	---	5.1	--	--
Northrup King PX9040 (2X)	41	---	---	8.9	---	---	3.7	--	--
Stauffer Seeds Exp. 2100WX (2X)	40	---	---	15.1	---	---	6.0	--	--
Pride 2211 (2X)	40	---	---	13.6	---	---	5.1	--	--
Stauffer Seeds B302WX (2X)	40	41	39	12.5	16.2	17.3	5.0	6.7	6.6
Garno S-85X (2X)	40	---	---	11.9	---	---	4.7	--	--
Hyland HL-2428 (2X)	39	---	---	15.1	---	---	5.8	--	--
Warwick W777 (2X)	39	42	41	11.2	13.7	14.2	4.3	5.9	5.8
Warwick W8308	37	---	---	12.2	---	---	4.6	--	--
Pioneer 3994	37	---	---	11.4	---	---	4.2	--	--
Midland M393 (3X)	36	---	---	11.9	---	---	4.1	--	--
Pioneer 3901 (2X)	35	38	35	13.3	18.2	17.4	4.6	7.0	6.2
Average	45	46	40	11.4	14.9	15.2	4.8	6.6	5.9
Range	35	38	35	8.0	12.6	13.9	3.7	5.5	5.3
	to	to	to	to	to	to	to	to	to
	56	51	44	15.8	18.9	17.8	6.6	9.1	6.6

(continued)

Table 25 (continued)

Hybrid (Brand-Variety)	1 Dry Matter			Green Weight			Tons Per Acre Dry Weight		
	2	3		2	3		2	3	
	1981	yr.	yr.	1981	yr.	yr.	1981	yr.	yr.
Least Significant Difference	4	3	2	1.7	1.5	1.2	0.9	0.9	0.7
Planted	1981			1980			1979		
Harvested	May 1			April 30			May 16		
Soil Type	September 16			September 19			September 19		
	Onaway loam			Onaway loam -			Onaway loam -		
				sandy loam			sandy loam		
Previous Crop	Corn			Corn			Corn		
Population	18,000			21,000			21,200		
Rows	30"			30"			30"		
Fertilizer	145-55-55			122-77-77, 15 tons			200-92-132 +		
				manure			22 lbs sulfur		
Soil Test: pH	7.4			---			---		
P	53 (medium)			---			---		
K	288 (high)			---			---		
Farm Cooperator:	Nick Thoney, Daggett								
County Extension Director:	Richard A. Breyer, Stephenson								
Cooperator:	Dr. Richard Leep, Department of Crop and Soil Sciences, Michigan State University, Marquette								

Index for 403 hybrids entered as 2, 228 entries in the 1981 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.

ACCO Paymaster, Belmond, Iowa 50421	ACCO Paymaster UC2124 (2X) (21,22,24,25)	ACCO Paymaster UC2990 (2X) (1,2,4,5,6,7,8,9,10,11,12,13,14,15)	ACCO Paymaster UC4660 (2X) (1,2,3,14,15)	ACCO Paymaster UC5990 (2X) (3)	ACCO Paymaster X94790 (2X) (1,3,4)	Andersons, Maunee, 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)	Asgrow Seed Co., Kalamazoo, Michigan 49001	Asgrow RK40 (2X) (11,12,13,14,15)	Asgrow RK355 (3X) (13,16,17,18)	Bayless Hybrids, Inc., Bluffton, Indiana 46714	Bayless SX622 (2X) (3)	Beck's Hybrids, Atlanta, Indiana 46031	Beck's 40X (2X) (2,5,6)	Beck's 45X (2X) (5,6)	Beck's 49X (2X) (4)	Cargill Seeds, Minneapolis, Minnesota 55440	Cargill 426 (3X) (11,12)	Cargill 436 (3X) (2,5,6,9,10)	Cargill 805 (2X) (14,15)	Cargill 810 (2X) (11,12,14,15)	Cargill 822 (2X) (11,12,14,15)	Cargill 832 (2X) (11,12,14,15)	Conbell Seeds, Inc., Bradley, Michigan 49348	Amcorn PSX3100 (2X) (2,3,4,7,8,11,12,16,17,18)	Amcorn ZX3500 (2X) (14,15,19)	Amcorn ZX4500 (2X) (6,8,11,12,13,14,15,16,18,19)	Custom Farm Seed, Mokenca, Illinois 60954	CFS 1400 (2X) (5,8)	CFS 1450 (2X) (1,5,8,9,10,17)	CFS 2004 (2X) (1,8)	CFS W2005 (2X) (7,13)	CFS W5610 (2X) (3,7,13,17)	Dairyland Seed Co., West Bend, Wisconsin 53095	Dairyland DX285 (3X) (20)	Dairyland DX1002 (2X) (7,8,13,16)	Dairyland DX1003 (2X) (5,6,7,8,9,10,11,12,13,14,15,16,17)	Dairyland DX1004 (2X) (4,6,7,8,11,12,13,14,15,16,17)	Dairyland DX1007 (2X) (1,2,3,4,5,9,10)	Dairyland DX1007B (2X) (1,3,4,7,8,9,10,13)	Dairyland DX1008 (2X) (2,4,5,6,7,9,10,11,12)	Decatur Seed & Supply Co., Decatur, Michigan 49045	Decatur C90 (2X) (8)	Decatur 219 (3X) (3)	Decatur 252 (3X) (2,5)	Decatur 285G (3X) (8)	DeKalb AgResearch, Inc., DeKalb, Illinois 60115	DeKalb XL6 (2X) (20,21,22,23,24,25)	DeKalb XL8 (2X) (19,20,21,22,23,24,25)	DeKalb XL11 (2X) (19,20,21,22,23,24,25)	DeKalb XL13 (2X) (9,10,11,12,14,15,17,20,21,22,24,25)	DeKalb XL14AA (2X) (16,17,18)	DeKalb XL123 (2X) (5,6,9,10,11,12,13,16,17,18)	DeKalb DX24 (3X) (19,23,24,25)	DeKalb DX24F (3X) (23,24,25)	Farm Bureau Services, Inc., Lansing, Michigan 48909	Farm Bureau FB-S-259 (2X) (19,21,22)	Farm Bureau FB-S-265 (2X) (19)	Bureau FB-M-279 (MSX) (19,20)	Farm Bureau FB-S-315 (2X) (9,10)	Leader Seeds, Inc., Celina, Ohio 45822	Leader SX475 (2X) (1)	Leader SX480A (2X) (1)	Leader SX490 (2X) (1,2)	Leader SX495 (2X) (1,2,3,9,10)	Leader SX500A (2X) (1)	Leader SX510 (2X) (1,2,3,7,9,10)	Lowe Seed Co., Kankakee, Illinois 60901	Lowe LSX117 (2X) (1,2,5,9,10)	Lowe LSX217 (2X) (1,2,5,9,10)	Lowe LSX222 (2X) (1,2,5,9,10)	Lynks Seeds, Marshalltown, Iowa 50158	Lynks LX4040 (2X) (13,14,15,16)	Lynks LX4075 (2X) (1,3,5,6,7,9,10,13,14,15,16)	Lynks LX4100 (2X) (1,3,5,6,7,9,10,13,14,15,16)	McKenzie Seed Farm, Breckenridge, Michigan 48615	McKenzie 409 (2X) (9,10,13,16,17,19)	McKenzie 707 (3X) (16,19,24,25)	McKenzie 858 (2X) (13,16,17,19,24,25)	McKenzie 901 (3X) (16,19)	Michigan Hybrid Seed Co., Mason, Michigan 48854	Wolverine W126 (2X) (17)	Wolverine W132 (2X) (13,16)	Wolverine W166 (2X) (4,7,8,9,10,11,12,13,14,15,17)	Midland Cooperative, Minneapolis, Minnesota	Midland M80 (2X) (24,25)	Midland M93 (2X) (24,25)	North American Plant Breeders, Migro Division, Kansas 66201	Migro HP-23R (2X) (3,14,15,17,18)	Migro M-0101 (2X) (13,16,17,18,19)	Migro HP-201 (2X) (16,17,18,19)	Migro HP-277 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)	Migro HP-360 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)	Northrup King Co., New Hope, Minnesota 55427	Northrup King PX7 (2X) (24,25)	Northrup King PX11 (2X) (24,25)	Northrup King PX14 (2X) (19,21,22,24,25)	Northrup King PX37 (2X) (1,7,9,10)	Northrup King PX39 (2X) (1,3,5,7,9,10,13,14,15)	Northrup King PX49 (2X) (7,13)	Northrup King PX59 (2X) (1,7)	Northrup King PX74 (2X) (3,5)	O's Gold Seed Co., Parkersburg, Iowa 50665	O's Gold 1107 (2X) (3,4,11,12)	O's Gold 1111 (2X) (8,13)	O's Gold 1170A (2X) (1,6)	O's Gold 2330 (2X) (11,12,14,15,16,18,20)	O's Gold 5500A (2X) (1,3,9,10)	P.A.G. Seeds, Minneapolis, Minnesota 55440	P.A.G. SX111 (2X) (11,12,14,15)	P.A.G. SX157 (2X) (11,12,13,14,15,16,17,18)	P.A.G. SX177 (2X) (11,12,13,14,15)	P.A.G. SX181 (2X) (4,5,6,7,8,9,10,11,12,13,14,15,16,17)	Roy W. Parker & Sons, Inc., Kimmell, Indiana 46760	Parker 29 (2X) (5)	Parker 32 (2X) (3)	Payco Seeds, Dassel, Minnesota 55325	Payco SX555 (2X) (3,5)	Payco SX611 (2X) (1,2,3,4,7,9,10,13,14,15,17)	Payco SX619 (2X) (1,2,4,6,7,9,10,13,14,15,17)	Payco SX620 (2X) (1,2,3,4,6,7,9,10,13,14,15,17)	Payco SX637 (2X) (1,2,4,7,9,10,13,14,15,17)	Pfizer Genetics, Windfall, Indiana 46076	Trojan TX85 (3X) (19,20)	Trojan TX90 (3X) (19,21,22)	Trojan TX90 (3X) (7,8,9,10,11,12,13,14,15,16,17,18)	Leader SX535 (2X) (1,2,3,5,7,9,10)	Leader SX575 (2X) (1,2)	Leader SX610 (2X) (1,2,3,5)	Leader SX630 (2X) (1,2)	Leader SX3550 (3X) (1)	Lowe LSX237 (2X) (2,9,10)	Lowe LSX317 (2X) (1,5)	Lynks LX4210 (2X) (1,3,5,6,7,9,10)	Lynks LX4305 (2X) (1,3,5,6)	Lynks LX4315 (2X) (1,3,5,6)	McKenzie 904 (2X) (16)	McKenzie 927 (MSX) (16,17,19)	McKenzie 987 (2X) (16,19)	Wolverine W168 (2X) (4,14,15,16)	Wolverine W174A (2X) (2,9,10,14,15)	Midland M393 (3X) (24,25)	Midland 488 (MSX) (23)	Migro HP-401 (2X) (1,2,3,4,5,6,7,8,9,10)	Migro HP-470 (2X) (1,2,3,4,5,6,7)	Migro M-0505 (2X) (2)	Migro M-2018X (2X) (2,4,7,8,9,10,11,12,16,17)	Migro M-2022X (2X) (1,5,6,9,10,11,12,13,14,15,18)	O's Gold 6880 (2X) (5,7,13,14,15,16,18)	O's Gold 6882 (2X) (1,3,4,5,6,7,9,10)	O's Gold Exp. 23101 (2X) (14,15,20)	O's Gold Exp. 24501 (2X) (4,5,6)	P.A.G. SX189 (2X) (6,9,10,13,14,15)	P.A.G. SX249 (2X) (1,3,5,6,9,10)	P.A.G. SX277 (2X) (5)	P.A.G. SX397 (2X) (1,2,3,4,5,6,9,10)	Parker 60 (2X) (3)	Parker 60A (2X) (5)	Payco SX756 (2X) (1,2,3,4,7,9,10,13,14,15,17)	Payco SX788 (2X) (1,2,4,5,13,14,15,17)	Payco SX844 (2X) (1,2,3,4,5,6,7,9,10,13,17)	Payco SX860 (2X) (1,2,3,4,5,6,7,9,10,13,17)	Payco SX990 (2X) (1,2,3,4,5)	Trojan T1000 (2X) (1,2,3,4,5,7,8,9,10,11,12,13,14,15,16,17,18)	Trojan T1100 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
-------------------------------------	--	--	--	--------------------------------	------------------------------------	-------------------------------	--	------------------------------	----------------------------	--	-----------------------------------	---------------------------------	--	------------------------	--	-------------------------	-----------------------	---------------------	---	--------------------------	-------------------------------	--------------------------	--------------------------------	--------------------------------	--------------------------------	--	--	-------------------------------	--	---	---------------------	-------------------------------	---------------------	-----------------------	----------------------------	--	---------------------------	-----------------------------------	---	--	--	--	--	--	----------------------	----------------------	------------------------	-----------------------	---	-------------------------------------	--	---	---	-------------------------------	--	--------------------------------	------------------------------	---	--------------------------------------	--------------------------------	-------------------------------	----------------------------------	--	-----------------------	------------------------	-------------------------	--------------------------------	------------------------	----------------------------------	---	-------------------------------	-------------------------------	-------------------------------	---------------------------------------	---------------------------------	--	--	--	--------------------------------------	---------------------------------	---------------------------------------	---------------------------	---	--------------------------	-----------------------------	--	---	--------------------------	--------------------------	---	-----------------------------------	------------------------------------	---------------------------------	--	---	--	--------------------------------	---------------------------------	--	------------------------------------	---	--------------------------------	-------------------------------	-------------------------------	--	--------------------------------	---------------------------	---------------------------	---	--------------------------------	--	---------------------------------	---	------------------------------------	---	--	--------------------	--------------------	--------------------------------------	------------------------	---	---	---	---	--	--------------------------	-----------------------------	---	------------------------------------	-------------------------	-----------------------------	-------------------------	------------------------	---------------------------	------------------------	------------------------------------	-----------------------------	-----------------------------	------------------------	-------------------------------	---------------------------	----------------------------------	-------------------------------------	---------------------------	------------------------	--	-----------------------------------	-----------------------	---	---	---	---------------------------------------	-------------------------------------	----------------------------------	-------------------------------------	----------------------------------	-----------------------	--------------------------------------	--------------------	---------------------	---	--	---	---	------------------------------	--	--

V

Voris Seeds, Inc., Windfall, Indiana 46076

Voris VX291 (2X) (21,22)
Voriss VX2301 (2X) (21,22)
Voriss V2331 (2X) (6,9,10,11,12,13,16,
21,22)
Voriss V2381 (2X) (6,11,12,13,16)

W

Wyffels Hybrids, Atkinson, Illinois 61235

Wyffel W17 (4)
Wyffel W19 (4)
Wyffel W26 (4)
Wyffel W21 (4)

Voris V2411 (2X) (7,11,12,13,16)
Voriss V2441 (2X) (1,3,5,9,10,11,12)
Voriss V2472 (2X) (3,5,6,7,9,10,11,12,13)
Voriss V2491 (2X) (1,3,5,6,7,9,10)
Voriss V2521 (2X) (1,3)

MICHIGAN STATE UNIVERSITY



COOPERATIVE
EXTENSION
SERVICE

MSU is an Affirmative Action/Equal Opportunity Institution. Cooperative Extension Service programs are open to all without regard to race, color, national origin, or sex.

Issued in furtherance of cooperative extension work in agriculture and home economics, acts of May 8, and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Gordon E. Guyer, Director, Cooperative Extension Service, Michigan State University, E. Lansing, MI 48824.

This information is for educational purposes only. Reference to commercial products or trade names does not imply endorsement by the Cooperative Extension Service or bias against those not mentioned. This bulletin becomes public property upon publication and may be reprinted verbatim as a separate or within another publication with credit to MSU. Reprinting cannot be used to endorse or advertise a commercial product or company.

1P-17R-1:82-6.5M-KMF-ST, Price 40 cents