

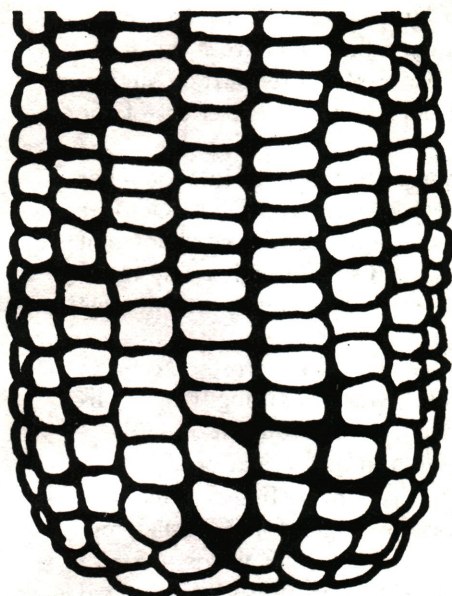
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Michigan Corn Production Hybrids Compared
Michigan State University Extension Service
E.C. Rossman, Keith Dysinger, Mervin Chamberlain, R.H. Leep, Donald Westerhof,
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Michigan Corn Production

HYBRIDS COMPARED 1983

Cooperative Extension Service
Michigan State University

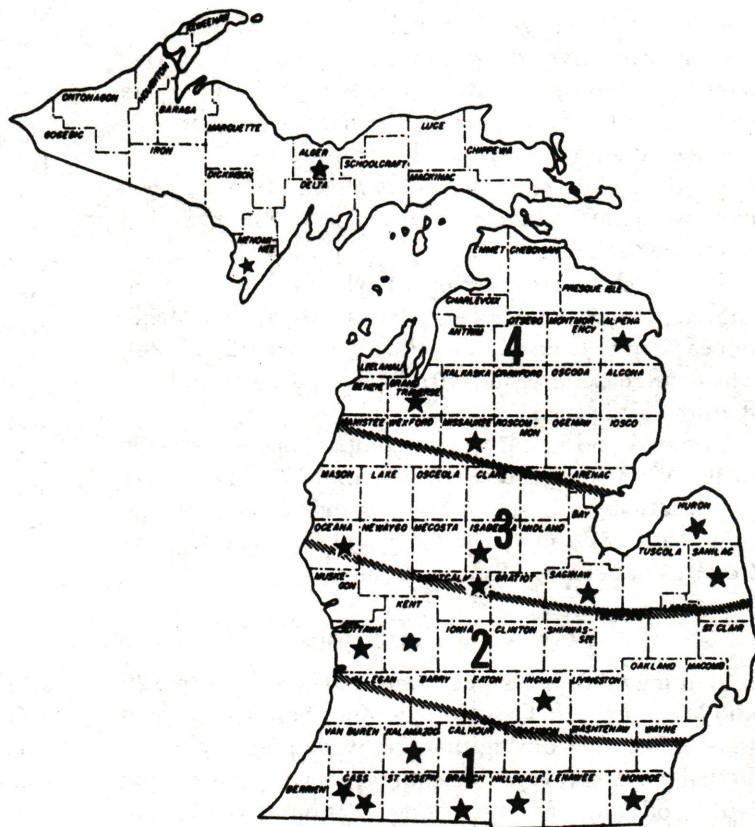
By: E. C. Rossman, Keith Dysinger, Mervin Chamberlain R. H. Leep and Donald Westerhof

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HYBRID CORN TRIALS are conducted each year by the Michigan Agricultural 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 hybrids in the 1982 trials produced 32 bushels more corn per acre than the average of 394 hybrids tested and 60 bushels more than the lowest yield hybrids tested (Table A). The respective yields were 155, 123 and 95 for the highest, average and lowest yielding hybrids at the 20 testing locations. The driest hybrids at harvest contained 5 percent less moisture than the average and 10 percent less moisture than the wettest hybrids tested. Stalk breakage averaged 24 percent, 7 percent and 1 percent 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 27 presents an index of all hybrids entered in the 1982 trials. Three hundred ninety-four (394) hybrids were tested as 2,414 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.

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

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

Stands and lodging were counted before harvest. Plots were harvested mechanically for both grain and silage yields.

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, 24, 26). 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.

Growing Conditions

Planting of all trials was completed between April 26 and May 17 except Cass County-Muck Soil trial planted June 9. Weather during planting was unusually warm so that germination and seedling emergence were rapid with good stands at most testing locations. Dry soil conditions during the last half of May resulted in erratic emergence and stands in some areas with late planting.

The growing season during June, July and early August was near optimum. Some moisture stress developed at some locations during the latter part of August. The crop was well developed so that the effect of the stress was reduced.

Adequate to more than adequate rain in September helped to reduce the effects of stress in August. October was unusually dry and favorable for rapid dry-down of grain in the field. Test weights were higher and moisture contents at harvest were lower than normal at most locations.

Most corn matured before killing frosts except in northern Michigan (Zone 4) where a killing frost occurred on August 29 and yields were reduced.

Yields were a record high in most areas of Michigan in 1982. The Michigan Crop Reporting Service estimates a record high state average of 105 bushels per acre. The previous state average high yields were 96 bushels in 1981 and 95 in 1980 and 1979. An estimated 3.15 million acres were planted to corn. Of this, 2.8 million acres were harvested for grain and the rest for silage. A record high total crop of 294 million bushels, 7 percent above 1981, is predicted.

Plant Population Trials

Five adapted hybrids at four plant populations (16,000 to 28,100 plants per acre at harvest) were grown at each of 17 locations (Table B). Hybrid $\times$ population interactions were not significant, so only the averages are reported.

The 23,900 average harvest population produced the highest yield at 10 of the 17 locations, averaging 157 to 195 bushels per acre. At the other locations where yields were lower, the 19,500 population produced the highest yield. Average yields were 132, 145, 148 and 140 bushels per acre for the four populations averaged for all locations. In other years with less favorable growing conditions, the 19,500 population has produced the highest yield at most locations without irrigation.

Moisture content of grain averaged 1 percent to 2 percent more for the highest populations. There was a marked trend toward increased stalk lodging as plant population was increased.

How to Use This Bulletin

One-, two- and three-year averages are presented for all hybrids tested during 1982, 1981 and 1980.

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 reasonable, 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. Field dry-down in 1982 was more rapid than usual and moisture content of grain at harvest may not be as reliable an indicator of relative maturity at locations with low grain moisture contents.

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 percent in the grain or 38 percent 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. Early hybrids with lower moisture content at harvest reduce drying costs and market discounts for moisture.
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. 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 late-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 1983

The following recommendations will help avoid moldy corn in 1983:

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 1983

Adequate supplies of high quality seed for most corn hybrids are available for 1983 planting. Some hybrids may be in short supply.

Table 1

SOUTHERN MICHIGAN
Monroe County Trial
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Migro HP-277 (2X)	19.3	21	--	106.4	113	--	2.2	3	--
Migro HP-266 (2X)	19.6	--	--	118.8	--	--	2.8	--	--
Rupp XR1591 (2X)	20.0	19	19	117.9	125	116	3.9	3	3
Northrup King PX9353 (2X)	21.0	--	--	95.4	--	--	5.4	--	--
DeKalb EX-2120 (2X)	21.0	--	--	98.9	--	--	6.1	--	--
Lowe LSX117 (2X)	21.0	21	--	96.7	115	--	3.0	3	--
Pioneer 3901 (2X)	21.0	20	20	92.0	107	110	4.7	2	4
Payco SX620 (2X)	21.1	--	--	115.7	--	--	3.0	--	--
Northrup King PX9288 (2X)	21.3	--	--	107.1	--	--	8.7	--	--
*Pioneer 3747 (2X)	21.7	--	--	126.6	--	--	3.1	--	--
Pioneer 3780 (2X)	21.7	21	21	118.1	135	130	5.3	5	6
Pride 4422 N (2X)	21.7	--	--	120.9	--	--	3.2	--	--
Bo-Jac 14 (2X)	21.7	--	--	118.8	--	--	4.5	--	--
Sohigro 35 (2X)	21.7	--	--	119.1	--	--	2.3	--	--
Funk G-4315 (MSX)	22.2	22	21	105.4	115	119	6.1	5	7
Andersons SSE (2X)	22.4	22	21	88.0	104	111	9.0	17	17
Lyons LX4075 (2X)	22.5	22	--	106.2	113	--	6.1	5	--
Pioneer 3707 (2X)	22.6	--	--	121.9	--	--	2.4	--	--
*Dairyland DX1006 (2X)	22.8	--	--	131.9	--	--	6.7	--	--
O's Gold 1170A (2X)	22.9	23	--	113.7	127	--	1.5	4	--
Golden Harvest H-2440 (2X)	22.9	23	--	94.3	115	--	0.8	2	--
Super Crost 2396 (2X)	23.0	22	23	101.5	129	128	5.6	4	3
Stauffer Seeds S5602 (2X)	23.1	22	--	100.0	121	--	5.5	4	--
Leader SX510 (2X)	23.1	22	--	111.2	127	--	8.0	6	--
Rupp XR1624 (2X)	23.3	23	22	118.6	124	116	3.0	3	6
Dairyland DX1007B (2X)	23.4	23	22	107.8	117	124	2.0	3	4
Payco SX788 (2X)	23.5	24	--	96.6	105	--	6.9	7	--
Cargill 861 (2X)	23.6	--	--	121.9	--	--	5.4	--	--
*Super Crost 2406 (2X)	23.6	23	--	124.3	131	--	5.6	5	--
O's Gold 6880 (2X)	23.7	--	--	104.6	--	--	5.3	--	--
Pioneer 3744 (2X)	23.7	23	--	104.7	128	--	2.8	3	--
Leader SX490 (2X)	23.7	23	--	111.1	128	--	3.1	5	--
Jacques JX151 (2X)	23.7	--	--	116.5	--	--	3.7	--	--
Northrup King PX37 (2X)	23.8	23	22	98.3	107	121	7.2	6	9
Lyons LX4100 (2X)	23.9	23	--	98.5	110	--	6.7	4	--
Cargill 862 (2X)	23.9	23	--	111.4	108	--	2.3	8	--
Pioneer 3535 (2X)	23.9	23	23	115.2	138	145	5.4	3	3
Great Lakes GL-516 (2X)	23.9	--	--	113.9	--	--	6.3	--	--
Funk G-4342 (2X)	23.9	--	--	108.5	--	--	7.6	--	--
Paymaster 2990 (2X)	23.9	--	--	110.2	122	--	1.5	2	--
Lyons LX4315A (2X)	23.9	--	--	122.8	--	--	8.7	--	--
*Paymaster 4660 (2X)	24.0	24	--	125.8	129	--	0.8	2	--
*Stauffer Seeds S5260 (2X)	24.0	24	--	124.4	125	--	7.9	7	--
Crow's 199 (2X)	24.0	--	--	100.5	--	--	1.6	--	--
Lowe SX217 (2X)	24.1	24	22	98.6	115	121	6.2	7	6
Northrup King PX39 (2X)	24.3	23	22	99.6	120	129	4.7	6	5
Hyland HL-2727 (2X)	24.4	--	--	103.5	--	--	5.6	--	--
Migro HP-360 (2X)	24.4	23	--	103.9	105	--	5.0	6	--
Voris V2472 (2X)	24.5	--	--	116.3	--	--	2.3	--	--
*Payco SX844 (2X)	24.6	25	23	130.3	132	129	4.8	5	4
*Stauffer Seeds S6389 (2X)	24.6	24	--	123.4	137	--	1.7	2	--
Select 4700 (2X)	24.6	--	--	116.1	--	--	4.4	--	--
DeKalb TL100 (2X)	24.7	25	--	112.9	140	--	3.1	3	--
Garno S-98X (2X)	24.7	--	--	106.7	--	--	1.7	--	--
*Payco SX722 (2X)	24.8	--	--	123.7	--	--	5.4	--	--
Stauffer Seeds S5650 (2X)	24.8	--	--	114.1	--	--	5.0	--	--
Super Crost 2410 (2X)	24.9	--	--	99.0	--	--	11.2	--	--
*Crow's 555 (2X)	24.9	--	--	133.4	--	--	6.8	--	--
Super Crost 2790 (2X)	25.0	25	--	115.5	125	--	3.0	2	--
*Super Crost 3030 (2X)	25.1	--	--	132.6	--	--	4.6	--	--
Voris V2411 (2X)	25.1	--	--	113.1	--	--	4.4	--	--
Pioneer 3572 (2X)	25.2	24	23	116.4	130	132	0.0	0	0
Lowe LSX222 (2X)	25.2	24	23	97.1	117	118	6.3	6	7
Pro-Seed HL2725 (2X)	25.3	--	--	108.7	--	--	7.8	--	--
Andersons SSX (2X)	25.3	23	22	107.5	119	117	6.9	10	7
DeKalb EX-2929 (2X)	25.4	--	--	96.8	--	--	4.6	--	--
DeKalb EX-4040 (2X)	25.5	--	--	112.8	--	--	3.9	--	--
Dairyland DX1105 (2X)	25.6	--	--	90.9	--	--	8.4	--	--
Rupp XR1620 (2X)	25.7	--	--	111.9	--	--	3.9	--	--
Payco SX824 (2X)	25.7	--	--	116.5	--	--	4.4	--	--
Andersons SSM (2X)	25.7	24	23	104.0	117	122	11.9	12	10
Hyland HL-2784 (2X)	25.8	--	--	111.2	--	--	2.8	--	--
Gries GSF X500 (2X)	25.9	--	--	112.5	--	--	4.2	--	--
*Farmers FCC279 (2X)	25.9	--	--	134.2	--	--	0.0	--	--
Dairyland DX1007 (2X)	25.9	25	24	103.6	133	128	4.4	4	4
Lyons LX4225 (2X)	25.9	--	--	119.1	--	--	3.4	--	--
Cargill 872 (2X)	26.0	25	--	102.5	121	--	12.4	11	--
*Bo-Jac 432 (2X)	26.1	--	--	123.8	--	--	2.8	--	--
Pride 5511 (2X)	26.1	--	--	117.2	--	--	3.1	--	--
*Rupp XR1639 (2X)	26.1	--	--	131.9	--	--	2.3	--	--
Rupp XR1690 (2X)	26.1	26	25	114.3	127	123	4.8	4	4
Leader SX495 (2X)	26.1	25	--	111.2	123	--	7.8	6	--
Farmers FCC224A (2X)	26.2	24	23	119.1	130	130	9.6	8	9
*Agrow RX777 (2X)	26.2	26	26	131.7	146	139	8.7	9	7
Northrup King PX9454 (2X)	26.2	25	--	111.7	119	--	3.6	6	--

(continued)

Table 1 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Pride 6611 (2X)	26.3	26	--	106.6	120	--	4.4	5	--
*Hyland HL-2850 (2X)	26.3	26	--	123.6	133	--	4.5	4	--
*Pioneer 3541 (2X)	26.4	25	24	127.6	141	137	2.5	2	4
Sohigro 39 (2X)	26.4	--	--	110.2	--	--	5.6	--	--
*Bo-Jac 452 (2X)	26.5	--	--	123.5	--	--	6.4	--	--
Paymaster 4790 (2X)	26.6	--	--	103.5	--	--	0.8	--	--
*Golden Harvest H-2448 (2X)	26.6	26	--	124.0	136	--	5.1	5	--
Voris Rep. 0064 (2X)	26.8	--	--	106.2	--	--	3.1	--	--
Gries GSF X600 (2X)	26.9	26	--	120.7	123	--	3.2	4	--
Rupp XR1625 (2X)	26.9	25	24	114.5	120	123	4.7	10	10
*Dairyland DX1012 (2X)	26.9	26	--	132.5	134	--	6.3	5	--
*Golden Harvest XL-436 (2X)	26.9	--	--	117.8	--	--	2.4	--	--
Garno S-100 (2X)	26.9	25	24	113.8	128	132	2.8	7	7
*Dairyland DX1110 (2X)	27.0	--	--	126.2	--	--	3.0	--	--
Funk G-4435 (MSX)	27.0	--	--	118.0	--	--	1.6	--	--
Dairyland DX1008 (2X)	27.1	--	--	117.1	--	--	4.1	--	--
*Northrup King PX9527 (2X)	27.1	--	--	123.3	--	--	2.4	--	--
*DeKalb XL-55A (2X)	27.2	25	24	124.1	144	143	8.5	6	6
Stauffer Seeds 606WX (2X)	27.2	--	--	117.7	--	--	8.3	--	--
Migro HP-470 (2X)	27.3	28	26	110.6	130	139	8.7	6	5
Funk G-4323 (MSX)	27.4	25	24	113.1	124	130	2.4	5	5
*Golden Harvest XS-5922 (2X)	27.4	26	24	134.6	147	147	3.3	2	2
Funk G-4438 (2X)	27.4	--	--	116.2	--	--	5.8	--	--
Voris V2491 (2X)	27.4	27	--	105.1	122	--	4.4	5	--
Hyland HL-2823 (2X)	27.5	26	--	114.9	135	--	2.6	3	--
DeKalb XL-32A (2X)	27.6	--	--	119.6	--	--	7.8	--	--
*Garno S-102 (2X)	27.8	26	--	131.4	142	--	0.0	1	--
Payco SX860 (2X)	28.0	28	--	111.9	123	--	6.1	4	--
Jacques JX179 (2X)	28.0	--	--	111.8	--	--	6.6	--	--
Cargill 921 (2X)	28.1	--	--	111.7	--	--	5.0	--	--
Golden Harvest H-2535 (2X)	28.4	28	--	117.6	128	--	3.1	3	--
Select 4800 (2X)	28.4	--	--	109.7	--	--	1.5	--	--
Leader SX575 (2X)	28.6	28	--	114.1	123	--	11.3	6	--
Stauffer Seeds S6595 (2X)	28.6	--	--	105.5	--	--	3.4	--	--
Sohigro 48 (2X)	28.8	--	--	108.7	--	--	3.2	--	--
Lyons LX4315 (2X)	28.8	27	--	118.5	132	--	4.0	3	--
Sohigro Exp. 222 (2X)	28.8	--	--	105.3	--	--	3.3	--	--
O's Gold 6882 (2X)	29.1	29	--	105.3	127	--	5.7	4	--
Lyons LX4210 (2X)	29.2	27	--	105.5	120	--	1.9	2	--
Bo-Jac 5601 (2X)	29.3	--	--	120.6	--	--	3.1	--	--
Golden Harvest H-2499 (2X)	29.3	28	--	113.7	126	--	9.3	7	--
Lowe LSX317 (2X)	29.5	28	27	105.7	132	133	4.1	3	2
Leader SX555 (2X)	29.6	28	--	106.4	133	--	9.6	6	--
O's Gold 5500A (2X)	29.7	29	28	111.1	138	142	2.9	3	2
Golden Harvest H-2500 (2X)	30.2	30	28	115.0	127	130	3.5	4	4
Rupp XR1780 (2X)	30.3	28	27	108.5	126	131	1.0	2	4
*Leader SX630 (2X)	30.4	31	--	129.6	144	--	2.5	3	--
*Payco SX900 (2X)	30.4	--	--	129.8	--	--	7.1	--	--
Dairyland DX1017 (2X)	31.9	--	--	111.5	--	--	1.7	--	--
Average	25.4	25	23	112.3	125	128	4.8	5	6
Range	19.3 to 31.9	19 to 31	19 to 28	88.0 to 134.6	104 to 147	110 to 147	0.0 to 12.4	0 to 17	0 to 17
Least Significant Difference	1.6	1.0	0.7	10.8	7	5	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	April 29	May 23	May 5
Harvested	October 19	November 11	October 29
Soil Type	Pewamo clay loam	Blount silty clay loam	Pewamo clay loam
Previous Crop	Alfalfa	Corn	Corn
Population	20,200	21,100	20,900
Rows	30"	30"	30"
Fertilizer	165-101-71	150-130-223	150-102-150
Soil test: pH	6.6	6.3	6.9
P	361 (very high)	212 (very high)	209 (very high)

Table 2

SOUTHERN MICHIGAN
Hillsdale County Trial
One, Two, Three Years - 1982, 1981, 1980

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.
O's Gold 6880 (2X)	16.0	--	--	132.8	---	---	2.2	--	--
Lowe LSX117 (2X)	16.1	19	--	133.9	124	---	1.5	2	--
Rupp XRL1591 (2X)	16.2	19	20	130.9	124	124	11.3	7	5
Andersons SSE (2X)	16.6	19	21	138.6	133	132	3.8	4	3
Great Lakes GL-466 (2X)	17.0	--	--	146.7	---	---	5.1	--	--
Pioneer 3780 (2X)	17.3	20	21	158.6	146	142	3.1	4	4
Super Crost 2410 (2X)	17.5	21	--	140.1	132	---	9.6	6	--
Pride 4422N (2X)	17.6	--	--	134.9	---	---	2.2	--	--
*Pioneer 3747 (2X)	17.6	--	--	164.0	---	---	7.1	--	--
Cargill 872 (2X)	17.6	21	22	146.0	134	133	3.8	5	4
Garno S-98X (2X)	17.7	--	--	130.1	---	---	2.2	--	--
*Moliverine W174A (2X)	17.7	21	--	164.3	146	---	0.0	3	--
Payco SX620 (2X)	17.7	--	--	141.1	---	---	4.5	--	--
Pioneer 3744 (2X)	17.7	20	--	157.3	143	---	5.9	6	--
Super Crost 3030 (2X)	17.7	--	--	134.4	---	---	13.4	--	--
Cargill 862 (2X)	17.7	21	--	130.5	125	---	7.5	10	--
Lowe LSX 217 (2X)	17.8	21	--	130.3	115	---	9.4	6	--
*Cargill 861 (2X)	17.8	--	--	164.5	---	---	1.5	--	--
Pioneer 3901 (2X)	17.8	20	21	148.8	130	122	10.1	6	5
Super Crost 2350 (2X)	17.9	21	22	131.1	127	119	7.0	5	4
Beck's 40X (2X)	18.0	21	--	148.9	135	---	6.7	4	--
Rupp XRL1624 (2X)	18.0	21	22	156.5	142	134	3.0	2	2
*Stauffer Seeds S6389 (2X)	18.0	21	--	175.8	148	---	6.7	2	--
Select 3222 (2X)	18.1	21	--	142.0	129	---	1.4	3	--
Leader SX495 (2X)	18.1	21	--	130.1	131	---	3.0	2	--
Funk G-4315 (MSX)	18.1	--	--	131.0	---	---	7.1	--	--
Dairyland DX1006 (2X)	18.3	--	--	147.7	---	---	4.0	--	--
Payco SX788 (2X)	18.3	21	--	146.1	130	---	6.6	6	--
Dairyland DX1008 (2X)	18.3	21	22	144.9	136	134	10.7	9	6
DeKalb XL-32A (2X)	18.3	22	--	149.4	149	---	0.7	2	--
Pioneer 3541 (2X)	18.4	22	24	140.8	135	140	2.3	4	3
Cargill 436 (3X)	18.4	21	22	151.9	143	140	2.9	5	4
Lowe LSX237 (2X)	18.5	21	--	131.1	121	---	5.3	5	--
Jacques JX151 (2X)	18.5	--	--	144.8	---	---	5.2	--	--
Great Lakes GL-516 (2X)	18.5	21	--	147.9	135	---	3.7	4	--
Funk G-4342 (2X)	18.5	--	--	145.9	---	---	6.8	--	--
Gries GSF X600 (2X)	18.5	--	--	141.3	---	---	0.7	--	--
Stauffer Seeds S5260 (2X)	18.5	21	--	149.7	140	---	3.1	3	--
Rupp XRL1620 (2X)	18.5	--	--	137.8	---	---	1.5	--	--
Leader SX490 (2X)	18.6	20	--	131.3	127	---	17.2	10	--
Beck's 45X (2X)	18.6	--	--	141.8	---	---	0.0	--	--
DeKalb EX-2929 (2X)	18.6	--	--	151.7	---	---	3.8	--	--
Hyland HL-2727 (2X)	18.6	--	--	140.3	---	---	3.6	--	--
*Paymaster 4660 (2X)	18.7	--	--	163.6	---	---	3.0	--	--
Super Crost 2396 (2X)	18.7	21	23	137.8	136	137	3.0	5	4
Stauffer Seeds S5602 (2X)	18.7	21	--	135.2	127	---	6.9	4	--
DeKalb T-Exp. 1056 (2X)	18.7	--	--	149.0	---	---	2.3	--	--
Bo-Jac 214 (2X)	18.8	--	--	142.1	---	---	1.5	--	--
DeKalb EX-2120 (2X)	18.8	--	--	130.5	---	---	0.8	--	--
Golden Harvest H-2440 (2X)	18.9	21	--	134.9	128	---	7.8	8	--
Payco SX722 (2X)	18.9	--	--	134.4	---	---	5.3	--	--
Paymaster 2990 (2X)	18.9	21	--	138.5	136	---	5.9	5	--
*Pioneer 3707 (2X)	19.0	--	--	184.1	---	---	0.7	--	--
*O's Gold 1170A (2X)	19.0	--	--	164.5	---	---	0.8	--	--
Funk G-4323 (MSX)	19.1	23	23	148.5	142	146	0.0	2	1
Pioneer 3572 (2X)	19.2	22	23	157.3	146	148	3.9	4	3
Great Lakes GL-522 (2X)	19.2	--	--	159.1	---	---	0.0	--	--
Super Crost 2790 (2X)	19.3	22	--	160.8	141	---	5.5	3	--
Select 4700 (2X)	19.3	22	23	158.4	143	140	2.9	3	3
Rupp XRL1690 (2X)	19.4	23	24	150.9	135	136	5.9	5	3
Rupp XRL1639 (2X)	19.4	--	--	159.7	---	---	2.9	--	--
Great Lakes GL-477 (2X)	19.4	21	22	158.7	149	149	3.4	3	3
Pride 5525 (2X)	19.4	21	22	150.3	139	144	3.1	4	3
Farmers FCC 279 (2X)	19.6	--	--	148.2	---	---	8.1	--	--
Stauffer Seeds S5650 (2X)	19.6	--	--	159.7	---	---	2.3	--	--
Leader SX510 (2X)	19.6	--	--	143.1	---	---	3.7	--	--
*Garno S-100 (2X)	19.7	22	23	168.4	154	152	3.0	4	3
Farmers FCC 224A (2X)	19.8	22	23	129.2	125	123	8.0	8	7
Paymaster 4790 (2X)	19.8	--	--	144.7	---	---	9.8	--	--
*Pioneer 3535 (2X)	19.8	24	25	175.7	164	161	0.0	2	1
*Great Lakes GL-552 (2X)	19.9	22	23	164.4	153	153	5.3	3	3
*DeKalb XL-55A (2X)	19.9	23	24	163.5	155	157	12.8	8	6
Payco SX844 (2X)	19.9	23	23	151.2	138	139	8.1	6	4
O's Gold 6882 (2X)	19.9	--	--	147.1	---	---	3.1	--	--
Stauffer Seeds 606WX (2X)	19.9	22	--	144.7	148	---	2.9	3	--
Andersons SSM (2X)	20.0	22	23	131.9	126	131	7.7	8	8
Dairyland DX 1007 (2X)	20.0	23	--	153.2	144	---	2.8	5	--
DeKalb EX-4040 (2X)	20.0	--	--	142.4	---	---	3.8	--	--
*Rupp XRL1625 (2X)	20.0	24	24	165.5	147	146	3.9	4	4
Hyland HL-2784 (2X)	20.1	--	--	153.4	---	---	5.1	--	--
Golden Harvest H-2448 (2X)	20.1	22	23	151.2	139	138	0.0	1	1
Pro-Seed HL-2725 (2X)	20.1	--	--	145.5	---	---	2.2	--	--
*Great Lakes GL-5922 (2X)	20.1	23	23	176.0	159	160	3.7	3	2
Pride 5511 (2X)	20.1	22	--	157.5	148	---	3.2	3	--

(continued)

Table 2 (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 HP-470 (2X)	20.2	22	24	151.8	147	152	4.6	4	3
*Dairyland DX1105 (2X)	20.2	--	--	174.0	---	---	3.1	--	--
Hyland HL-2823 (2X)	20.3	--	--	141.4	---	---	2.3	--	--
Lowe LSX222 (2X)	20.3	22	--	131.3	120	---	8.7	9	--
Gries GSF X500 (2X)	20.4	--	--	153.6	---	---	0.0	--	--
*Garno S-102 (2X)	20.4	23	--	173.9	158	---	2.2	4	--
*Select 3300 (2X)	20.4	22	23	170.3	142	142	2.2	2	2
Andersons SSX (2X)	20.5	22	23	145.8	133	140	5.3	6	5
Payco SX860 (2X)	20.7	24	--	149.7	142	---	5.4	3	--
Leader SX575 (2X)	20.7	24	--	151.0	139	---	9.0	8	--
DeKalb TL100 (2X)	20.8	24	--	157.8	141	---	0.7	0	--
Leader SX555 (2X)	20.8	23	--	134.2	132	---	5.9	8	--
*Golden Harvest H-2499 (2X)	20.8	24	--	169.5	152	---	0.8	2	--
Bo-Jac 370 (2X)	20.9	--	--	146.9	---	---	2.3	--	--
Hyland HL-2850 (2X)	21.0	--	--	159.3	---	---	3.2	--	--
P.A.G. SX277 (2X)	21.0	--	--	134.3	---	---	8.3	--	--
Beck's 60X (2X)	21.1	24	--	150.9	144	---	3.1	2	--
*Stauffer Seeds S6595 (2X)	21.2	--	--	176.7	---	---	3.6	--	--
*Rupp XRL780 (2X)	21.3	24	26	164.4	152	158	0.7	1	2
Stauffer Seeds S6596 (2X)	21.5	--	--	133.4	---	---	5.2	--	--
Golden Harvest XS-436 (2X)	21.6	24	--	137.3	130	---	4.4	4	--
Dairyland DX1110 (2X)	21.6	--	--	148.7	---	---	6.6	--	--
*Payco SX824 (2X)	21.7	--	--	175.5	---	---	3.2	--	--
Cargill 924 (2X)	21.8	25	--	159.9	156	---	2.3	3	--
*Funk G-4438 (2X)	21.9	--	--	167.9	---	---	3.1	--	--
Bo-Jac 452 (2X)	22.0	--	--	138.2	---	---	1.5	--	--
Cargill 921 (2X)	22.0	25	26	156.3	155	161	14.1	7	5
P.A.G. SX397 (2X)	22.1	24	25	154.2	145	141	8.8	8	7
Asgrow RX777 (2X)	22.5	24	25	151.8	140	140	0.0	2	2
*Payco SX900 (2X)	22.6	--	--	171.5	---	---	3.6	--	--
Golden Harvest H-2500 (2X)	22.6	26	27	153.2	138	141	6.9	6	4
Jacques 7780 (2X)	22.7	--	--	149.9	---	---	1.5	--	--
*Migro HP-555 (2X)	22.8	--	--	174.1	---	---	3.6	--	--
Dairyland DX1016 (2X)	23.4	26	26	142.4	132	143	3.7	2	2
*Dairyland DX1017 (2X)	23.8	--	--	177.9	---	---	3.7	--	--
Average	19.5	22	23	149.9	139	142	4.4	4	4
Range	16.0 to 23.8	19 to 26	20 to 27	129.2 to 184.1	115 to 164	119 to 161	0.0 to 17.2	0 to 10	1 to 8
Least Significant Difference	1.3	1.0	0.8	13.4	8	5	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	May 3	May 9	May 6
Harvested	October 19	October 27	October 28
Soil type	Sibewa- Matherton loam	Sibewa- Matherton loam	Sibewa- Matherton loam
Previous crop	Corn	Corn	Corn
Population	21,900	21,100	21,400
Rows	30"	30"	30"
Fertilizer	185-60-180	180-80-190	150-80-80
Soil test: pH	6.5	6.1	6.7
P	56 (medium)	74 (high)	48 (medium)
K	233 (high)	312 (very high)	252 (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 - 1982, 1981, 1980

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1981	2 yr.	3 yr.
Pride 4422 N (2X)	17.3	--	--	152.5	---	---	1.5	--	--
Gold Tag GT1822 (2X)	17.4	--	--	142.6	---	---	2.8	--	--
Gold Tag GT1090 (MSX)	17.5	20	--	140.8	127	---	2.8	4	--
Payco SX620 (2X)	17.6	--	--	143.0	---	---	2.3	--	--
Pioneer 3901 (2X)	17.6	21	20	149.8	128	113	3.4	3	4
Stauffer Seeds S4402 (2X)	18.0	--	--	151.0	---	---	2.9	--	--
DeKalb XL-25A (2X)	18.1	23	23	145.7	138	133	1.6	1	1
Northrup King PK9353 (2X)	18.1	--	--	147.5	---	---	3.0	--	--
Northrup King PK9288 (2X)	18.2	--	--	146.0	---	---	6.8	--	--
Lynds LX4075 (2X)	18.3	23	--	147.7	126	---	2.9	3	--

Table 3 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	yr.	yr.	1982	yr.	yr.	1981	yr.	yr.
Great Lakes GL-466 (2X)	18.3	--	--	151.4	---	---	2.9	--	--
Migro HP-266 (2X)	18.4	--	--	151.7	---	---	2.0	--	--
Voris V2411 (2X)	18.6	--	--	154.7	---	---	2.9	--	--
Migro HP-277 (2X)	18.6	21	--	143.8	137	---	1.8	1	--
Decatur 2570 (2X)	18.7	24	--	165.6	153	---	3.0	3	--
P.A.G. SX181 (2X)	18.8	--	--	140.2	---	---	3.1	--	--
Farmers FCC224A (2X)	18.9	23	22	165.6	151	139	6.1	4	6
Cargill 861 (2X)	18.9	--	--	163.5	---	---	6.2	--	--
Cargill 862 (2X)	19.0	--	--	171.6	---	---	8.1	--	--
Payco SX788 (2X)	19.0	--	--	141.6	---	---	4.9	--	--
Bo-Jac 14 (2X)	19.0	--	--	165.9	---	---	2.3	--	--
Pioneer 3747 (2X)	19.1	--	--	169.3	---	---	3.4	--	--
Golden Harvest H-2440 (2X)	19.1	24	--	144.4	138	---	9.5	5	--
Bayless SX440 (2X)	19.2	--	--	172.4	---	---	5.2	--	--
Northrup King PX9415 (2X)	19.3	--	--	173.5	---	---	5.2	--	--
Pioneer 3780 (2X)	19.3	22	21	152.3	136	130	3.5	2	2
Dairyland DX1007B (2X)	19.3	23	--	156.5	141	---	1.5	3	--
Farm Bureau FBS 3330 (MSX)	19.3	24	23	153.9	146	137	3.6	3	2
Migro HP-360 (2X)	19.3	24	--	146.7	135	---	1.4	1	--
Northrup King PX39 (2X)	19.3	23	23	182.0	166	157	0.7	1	1
Cargill 872 (2X)	19.4	--	--	177.6	---	---	5.6	--	--
Leader SX490 (2X)	19.5	--	--	151.9	---	---	1.6	--	--
*Stauffer Seeds S5260 (2X)	19.5	--	--	188.0	---	---	1.5	--	--
*Leader SX555 (2X)	19.5	25	--	190.2	173	---	2.2	2	--
Renk RK24 (2X)	19.5	24	--	154.4	139	---	4.4	3	--
Rupp XR1624 (2X)	19.5	24	23	152.6	142	127	2.1	2	6
Gries GSF X60 (2X)	19.5	--	--	160.2	---	---	0.8	--	--
Great Lakes GL-477 (2X)	19.5	24	22	178.0	159	154	3.7	3	4
Select 4700 (2X)	19.5	25	24	179.3	162	157	0.7	1	1
Cargill 436 (3X)	19.6	--	--	157.1	---	---	9.9	--	--
DeKalb EX-2120 (2X)	19.6	--	--	146.7	---	---	0.8	--	--
Leader SX510 (2X)	19.6	--	--	151.5	---	---	3.6	--	--
Custom CFS 4003 (2X)	19.7	--	--	141.8	---	---	3.9	--	--
Gold Tag GT2006 (2X)	19.7	23	23	141.5	134	127	5.7	4	3
Farm Bureau FBS 355 (2X)	19.7	--	--	150.9	---	---	3.6	--	--
Jacques JX151 (2X)	19.7	--	--	149.9	---	---	1.4	--	--
Paymaster 2990 (2X)	19.7	--	--	159.9	---	---	3.6	--	--
Decatur 2775 (2X)	19.7	--	--	152.2	---	---	0.8	--	--
Great Lakes GL-516 (2X)	19.8	24	--	181.1	161	---	1.5	2	--
*Funk G-4323 (MSX)	19.8	23	23	188.6	169	154	1.5	1	2
DeKalb T-Exp. 1056 (2X)	19.8	--	--	158.8	---	---	1.5	--	--
Lynds LX4100 (2X)	19.8	24	--	141.8	139	---	1.5	2	--
Pride 5511 (2X)	19.8	25	24	168.1	148	149	3.5	3	2
Pioneer 3535 (2X)	19.9	25	24	176.3	170	162	0.0	1	1
Rupp XR1690 (2X)	19.9	25	24	164.9	144	134	2.8	3	4
Andersons SSX (2X)	19.9	26	23	163.5	144	132	4.3	3	2
Andersons SSM (2X)	19.9	23	22	179.3	148	139	9.7	6	6
Lynds LX4210 (2X)	19.9	24	--	163.4	152	---	2.9	3	--
Beck's 45X (2X)	20.0	--	--	154.6	---	---	3.8	--	--
Stauffer Seeds 606WX (2X)	20.0	24	--	157.8	151	---	3.6	3	--
Pioneer 3707 (2X)	20.1	--	--	181.3	---	---	0.7	--	--
Rupp XR1591 (2X)	20.1	23	22	155.3	142	131	0.0	0	2
*DeKalb EX-4040 (2X)	20.1	--	--	199.3	---	---	2.1	--	--
Paymaster 4660 (2X)	20.1	24	--	177.1	163	---	0.7	1	--
Payco SX722 (2X)	20.2	--	--	165.0	---	---	4.5	--	--
Hyland HL-2727 (2X)	20.2	--	--	164.4	---	---	4.4	--	--
*Pioneer 3541 (2X)	20.2	26	25	187.1	168	157	0.8	1	2
Golden Harvest XS-436 (2X)	20.3	26	--	165.5	159	---	0.8	1	--
Leader SX495 (2X)	20.3	24	--	145.3	132	---	0.8	1	--
Rupp XR1620 (2X)	20.3	--	--	148.4	---	---	3.9	--	--
Funk G-4315 (MSX)	20.3	--	--	148.0	---	---	6.9	--	--
Pioneer 3572 (2X)	20.3	25	24	157.6	147	144	0.7	0	1
Super Crost 2396 (2X)	20.3	24	23	158.3	150	143	1.4	1	2
Golden Harvest H-2448 (2X)	20.3	24	24	178.8	157	151	2.2	1	2
*DeKalb XL-55A (2X)	20.4	25	24	188.9	171	163	8.3	5	5
DeKalb EX-2929 (2X)	20.5	--	--	176.7	---	---	5.2	--	--
Pioneer 3744 (2X)	20.5	23	--	159.4	147	---	1.4	2	--
P.A.G. SX249 (2X)	20.6	25	--	162.9	149	---	1.5	2	--
Rupp XR1625 (2X)	20.6	24	23	154.8	145	139	0.7	1	1
Dairyland DX1007 (2X)	20.6	25	--	170.2	156	---	0.9	1	--
P.A.G. SX397 (2X)	20.7	25	24	181.4	168	150	5.0	3	5
Voris Exp. 0064 (2X)	20.7	--	--	168.2	---	---	2.9	--	--
Custom CFS E96001 (2X)	20.7	--	--	166.5	---	---	2.8	--	--
Payco SX844 (2X)	20.7	25	--	168.1	144	---	8.5	5	--
Anderson SSE (2X)	20.8	23	22	168.8	144	129	7.1	4	5
Stauffer Seeds S5650 (2X)	20.8	--	--	172.1	---	---	3.5	--	--
Stauffer Seeds S6389 (2X)	20.9	--	--	169.1	---	---	1.5	--	--
Great Lakes GL-522 (2X)	20.9	--	--	171.5	---	---	2.2	--	--
Custom CFS 1450 (2X)	20.9	--	--	160.1	---	---	3.5	--	--
Renk RK66 (2X)	21.0	25	24	174.5	154	148	5.0	3	3

(continued)

Table 3 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1981	2 yr.	3 yr.
*O's Gold 6882 (2X)	21.1	--	--	191.6	---	---	1.5	--	--
Parker 32 (2X)	21.1	25	--	150.9	141	---	3.5	4	--
Asgrow RX610 (2X)	21.1	--	--	172.8	---	---	1.6	--	--
Garno S-100 (2X)	21.1	25	24	177.9	154	149	0.0	2	2
*Stauffer Seeds S6595 (2X)	21.1	--	--	214.2	---	---	2.8	--	--
Voris V2472 (2X)	21.1	25	24	159.3	145	140	1.4	1	1
Dairyland DX1105 (2X)	21.2	--	--	155.3	---	---	3.5	--	--
Custom CFS W6420 (2X)	21.2	--	--	176.0	---	---	2.2	--	--
*Paymaster 4790 (2X)	21.2	--	--	190.1	---	---	2.3	--	--
Garno S-98X (2X)	21.2	--	--	161.7	---	---	0.7	--	--
DeKalb T1100 (2X)	21.3	27	--	181.3	155	---	0.7	1	--
Stauffer Seeds S5602 (2X)	21.3	25	--	154.1	144	---	0.8	2	--
Bo-Jac 432 (2X)	21.3	--	--	170.1	---	---	2.3	--	--
Pride 4488 (2X)	21.4	25	24	181.2	153	151	1.5	2	2
Parker 52 (2X)	21.4	--	--	163.9	---	---	4.3	--	--
*Great Lakes GL-5922 (2X)	21.4	25	24	194.6	170	167	3.7	2	3
*Payco SX860 (2X)	21.4	27	--	201.2	178	---	2.7	1	--
*Lynks LX4315 (2X)	21.4	27	--	193.4	171	---	3.1	2	--
Lynks LX4315A (2X)	21.4	--	--	174.4	---	---	3.9	--	--
Gries GSF X500 (2X)	21.5	--	--	176.9	---	---	7.3	--	--
*Rupp XR1780 (2X)	21.5	27	25	200.3	177	165	2.1	1	2
*Select 4800 (2X)	21.5	27	--	188.6	164	---	2.2	1	--
O's Gold 1170A (2X)	21.5	--	--	161.5	---	---	0.8	--	--
Asgrow RX622 (2X)	21.6	--	--	161.1	---	---	2.1	--	--
*Garno S-102 (2X)	21.6	25	--	191.3	163	---	2.1	2	--
Select 3300 (2X)	21.7	26	25	174.3	168	155	0.7	2	2
Super Crost 4337 (2X)	21.8	--	--	168.5	---	---	0.7	--	--
*Payco SX824 (2X)	21.9	--	--	204.5	---	---	0.0	--	--
*Paymaster 5990 (2X)	21.9	27	--	191.2	171	---	4.4	3	--
Dairyland DX1006 (2X)	21.9	--	--	160.5	---	---	3.8	--	--
*Stauffer Seeds S6596 (2X)	21.9	--	--	189.6	---	---	2.9	--	--
*Hyland HL-2823 (2X)	22.0	--	--	189.3	---	---	0.7	--	--
Dairyland DX1110 (2X)	22.0	--	--	179.1	---	---	4.3	--	--
Pro-Seed HL-2725 (2X)	22.0	--	--	173.8	---	---	0.7	--	--
Bo-Jac 452 (2X)	22.2	--	--	162.4	---	---	1.5	--	--
Northrup King PX9527 (2X)	22.2	--	--	177.9	---	---	2.2	--	--
Warwick T1055 (MSX)	22.3	--	--	158.6	---	---	2.3	--	--
Lynks LX4225 (2X)	22.3	--	--	169.4	---	---	1.4	--	--
*Farmer FCC279 (2X)	22.3	--	--	186.4	---	---	3.7	--	--
*Leader SX575 (2X)	22.4	--	--	187.5	---	---	2.2	--	--
Super Crost 2790 (2X)	22.4	25	--	156.4	152	---	0.7	1	--
Hyland HL-2850 (2X)	22.4	--	--	157.9	---	---	4.2	--	--
Hyland HL-2784 (2X)	22.5	--	--	173.0	---	---	2.2	--	--
*Bayless SX622 (2X)	22.5	27	--	196.5	160	---	0.0	1	--
Cargill 921 (2X)	22.6	--	--	175.8	---	---	2.1	--	--
*Asgrow RX777 (2X)	22.6	27	26	197.1	173	171	0.7	1	0
*Funk G-4438 (2X)	22.7	--	--	193.4	---	---	3.0	--	--
*Voris V2491 (2X)	22.7	27	--	198.7	174	---	1.4	1	--
*Rupp XR1639 (2X)	22.8	--	--	186.4	---	---	2.2	--	--
Funk G-4342 (2X)	23.0	--	--	169.7	---	---	3.1	--	--
Super Crost 3030 (2X)	23.2	--	--	157.9	---	---	5.6	--	--
Bayless SX627 (2X)	23.2	--	--	181.7	---	---	1.5	--	--
Northrup King PX9454 (2X)	23.3	27	--	157.6	152	---	0.7	1	--
*Dairyland DX1016 (2X)	23.4	28	26	214.9	177	169	0.0	0	1
*Renk RK77 (2X)	23.5	28	26	212.3	187	174	1.4	2	2
*Dairyland DX1017 (2X)	23.5	--	--	214.1	---	---	0.0	--	--
Renk RK75 (2X)	23.6	--	--	164.9	---	---	0.7	--	--
Garno S-104X (2X)	23.7	--	--	178.0	---	---	1.6	--	--
*Bayless SX637 (2X)	23.8	29	27	202.0	177	172	2.2	1	1
*Northrup King PX74 (2X)	23.8	27	27	214.8	189	180	2.1	2	1
Migro HP-470 (2X)	23.9	29	26	163.1	152	151	0.0	0	0
*Golden Harvest H-2500 (2X)	23.9	28	--	210.5	169	---	1.4	1	--
*Select 5188 (2X)	24.4	--	--	213.2	---	---	0.7	--	--
Beck's 65XS (2X)	24.5	28	--	176.8	162	---	2.3	2	--
*Payco SX900 (2X)	24.7	--	--	219.6	---	---	2.3	--	--
*Bo-Jac 5601 (2X)	25.0	--	--	212.3	---	---	2.1	--	--
Jacques JX179 (2X)	25.1	--	--	176.8	---	---	1.6	--	--
Average	20.9	25	24	170.0	155	148	2.9	2	2
Range	17.3 to 25.1	20 to 29	20 to 27	140.2 to 219.6	126 to 189	113 to 180	0.0 to 9.9	0 to 6	0 to 6
Least Significant Difference	1.3	0.9	0.9	15.9	9	6	--	--	--

Table 3(continued)

Previous Crop	Corn	Corn	Corn
Rows	30"	30"	30"
Population	21,200	20,700	20,800
Fertilizer	177-69-60	185-64-0	185-64-0
Soil test: pH	6.8	6.5	7.7
P	264 (very high)	310 (very high)	288 (very high)
K	276 (high)	272 (high)	327 (very high)

Farm Cooperator: George Matthews, Union City

County Extension Director: Ray Fast, Coldwater

Table 4

SOUTHERN MICHIGAN
Kalamazoo County Trial
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 1

Hybrid (Brand-Variety)	% Moisture		Bushels Per Acre			% Stalk Lodging		
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.
Rupp XR1591 (2X)	17.1	21	21	138.5	123	118	2.8	7 6
Stauffer Seeds S4402 (2X)	17.1	21	--	142.4	124	---	0.7	5 --
Northrup King PX9144 (2X)	17.1	--	--	106.0	---	---	9.7	-- --
Migro HP-266 (2X)	17.6	--	--	130.0	---	---	2.8	-- --
Pioneer 3901 (2X)	17.7	21	21	145.3	122	127	5.1	7 5
Pride 4422N (2X)	17.8	--	--	116.0	---	---	2.1	-- --
Migro HP-277 (2X)	17.8	21	--	132.3	120	---	3.6	6 --
Super Crost 2396 (2X)	17.9	22	22	126.3	114	127	6.7	5 4
Crow's 199 (2X)	17.9	--	--	124.4	---	---	5.2	-- --
Golden Harvest H-2380 (2X)	17.9	--	--	144.4	---	---	7.0	-- --
Cargill 834 (2X)	18.0	--	--	110.9	---	---	1.5	-- --
Pioneer 3780 (2X)	18.0	22	22	143.0	127	129	5.1	7 6
Payco SX620 (2X)	18.1	--	--	145.6	---	---	1.4	-- --
Pioneer 3744 (2X)	18.1	21	--	145.3	132	---	4.2	6 --
Migro HP-360 (2X)	18.1	22	--	138.2	119	---	7.6	8 --
Wolverine W166 (2X)	18.3	21	22	127.6	111	120	6.5	14 11
Select 3222 (2X)	18.3	23	--	126.5	125	---	4.9	7 --
Rupp XR1624 (2X)	18.3	22	22	129.6	120	123	5.7	7 7
Garno S-98X (2X)	18.4	--	--	128.3	---	---	5.2	-- --
Migro HP-401 (2X)	18.4	24	--	137.9	129	---	4.1	4 --
Cargill 862 (2X)	18.4	22	--	140.6	123	---	3.4	9 --
Stauffer Seeds S5260 (2X)	18.5	23	--	148.9	127	---	0.7	1 --
*Dairyland DX1008 (2X)	18.5	23	--	155.9	135	---	5.0	9 --
Payco SX788 (2X)	18.5	22	--	129.6	131	---	5.0	6 --
Dairyland DX1006 (2X)	18.6	--	--	142.3	---	---	7.4	-- --
Paymaster 2990 (2X)	18.7	22	--	138.4	128	---	7.9	10 --
Lynks LX4100 (2X)	18.7	--	--	142.4	---	---	6.3	-- --
Stauffer Seeds S5602 (2X)	18.8	23	--	122.1	119	---	6.3	5 --
Bo-Jac 214 (2X)	18.8	--	--	150.7	---	---	3.5	-- --
Northrup King PX37 (2X)	18.8	--	--	145.2	---	---	6.5	-- --
Cargill 436 (3X)	18.8	--	--	117.6	---	---	11.1	-- --
Payco SX722 (2X)	18.9	--	--	146.0	---	---	4.2	-- --
Northrup King PX9415 (2X)	18.9	--	--	135.2	---	---	4.2	-- --
Kaltenberg KX67 (2X)	18.9	23	--	127.1	125	---	1.4	3 --
DeKalb EX-2929 (2X)	18.9	--	--	137.3	---	---	5.4	-- --
Pioneer 3707 (2X)	18.9	--	--	145.4	---	---	6.9	-- --
Beck's 45X (2X)	19.0	--	--	135.1	---	---	5.0	-- --
Great Lakes GL-516 (2X)	19.0	--	--	139.8	---	---	12.3	-- --
DeKalb XL-324 (2X)	19.0	23	--	145.2	129	---	4.8	5 --
Funk G-4315 (MSX)	19.0	--	--	130.5	---	---	5.6	-- --
Hyland HL-2727 (2X)	19.0	--	--	137.1	---	---	7.6	-- --
Select 3300 (2X)	19.0	23	23	135.2	120	129	1.4	5 4
P.A.G. SX181 (2X)	19.1	22	22	131.4	109	117	4.2	6 4
Golden Harvest H-2448 (2X)	19.1	23	23	143.9	129	139	8.7	7 5
Funk G-4224 (MSX)	19.1	21	21	138.4	126	126	5.7	12 10
Cargill 861 (2X)	19.2	--	--	127.3	---	---	7.1	-- --
Farmers FOC224A (2X)	19.2	23	--	133.9	134	---	10.3	12 --
Super Crost 3030 (2X)	19.2	--	--	143.7	---	---	9.0	-- --
Dairyland DX1007B (2X)	19.2	23	23	140.7	124	133	7.0	6 6
Voris V2411 (2X)	19.2	--	--	125.9	---	---	4.3	-- --
Paymaster 4660 (2X)	19.2	--	--	132.6	---	---	3.6	-- --
Kaltenberg KX61 (2X)	19.3	23	--	126.8	117	---	8.5	8 --
*Rupp XR1690 (2X)	19.3	24	--	153.2	133	---	2.9	4 --
DeKalb T-Exp. 1056 (2X)	19.3	--	--	125.6	---	---	7.2	-- --
Custom CFS 4003 (2X)	19.3	23	23	127.9	131	132	5.6	5 6
Jacques JX151 (2X)	19.3	--	--	124.8	---	---	6.0	-- --
Super Crost 2790 (2X)	19.4	23	--	125.0	122	---	2.9	3 --
Lynks LX4225 (2X)	19.4	--	--	120.8	---	---	2.1	-- --
Golden Harvest H-2440 (2X)	19.4	23	--	146.5	133	---	6.3	7 --
Bo-Jac 370 (2X)	19.4	--	--	130.5	---	---	9.4	-- --

(continued)

Table 4(continued)

Hybrid (Brand-Variety)	% Moisture		Bushels Per Acre			% Stalk Lodging		
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.
DeKalb EX-4040 (2X)	19.4	--	--	142.3	---	---	1.4	-- --
Stauffer Seeds 606WX (2X)	19.5	23	23	146.7	133	138	1.4	6 6
P.A.G. SX397 (2X)	19.6	25	25	138.3	126	140	5.6	7 5
Hyland HL-2784 (2X)	19.6	--	--	139.7	---	---	2.8	-- --
*Stauffer Seeds S6389 (2X)	19.6	23	--	153.5	132	---	1.4	4 --
*Pride 5511 (2X)	19.6	--	--	158.8	---	---	4.3	-- --
Dairyland DX1105 (2X)	19.6	--	--	150.1	---	---	6.3	-- --
Custom CFS E96001 (2X)	19.6	--	--	129.2	---	---	7.2	-- --
*Funk G-4323 (MSX)	19.6	24	23	154.7	137	136	2.1	5 4
Rupp XR1620 (2X)	19.6	--	--	136.1	---	---	1.5	-- --
*Beck's 49X (2X)	19.7	23	--	161.7	136	---	1.4	7 --
DeKalb XL-36 (2X)	19.8	23	--	144.3	136	---	4.7	8 --
*Stauffer Seeds S5650 (2X)	19.8	--	--	147.0	---	---	6.2	-- --
Crow's 444 (2X)	19.8	--	--	148.0	---	---	8.5	-- --
Asgrow RX610 (2X)	19.8	--	--	149.3	---	---	1.5	-- --
*Garno S-100 (2X)	19.8	24	23	155.8	146	149	3.6	6 4
*Pioneer 3572 (2X)	19.9	23	23	159.3	138	136	2.9	6 4
*DeKalb XL-55A (2X)	19.9	24	23	167.9	154	157	4.8	4 4
DeKalb T1100 (2X)	19.9	26	--	129.8	123	---	11.2	8 --
*Custom CFS 1450 (2X)	19.9	--	--	155.8	---	---	7.2	-- --
Payco SX844 (2X)	19.9	24	23	126.1	122	133	3.4	5 4
*Kaltenberg KX68 (2X)	20.0	24	--	153.3	136	---	3.5	4 --
O's Gold 1170A (2X)	20.0	--	--	141.0	---	---	2.7	-- --
Beck's 60X (2X)	20.0	25	--	133.8	121	---	3.5	5 --
Pro-Seed HL-2725 (2X)	20.0	--	--	132.3	---	---	4.9	-- --
*Northrup King PX39 (2X)	20.1	--	--	170.2	---	---	3.8	-- --
Funk G-4342 (2X)	20.1	--	--	145.8	---	---	8.5	-- --
Lynks LX4210 (2X)	20.2	--	--	124.0	---	---	2.9	-- --
Rupp XR1625 (2X)	20.2	24	--	150.2	139	---	8.5	6 --
Dairyland DX1007 (2X)	20.2	23	23	147.0	132	137	2.7	3 2
Voris V2472 (2X)	20.2	--	--	134.9	---	---	3.4	-- --
Bo-Jac 452 (2X)	20.2	--	--	143.6	---	---	6.2	-- --
Custom CFS W3610 (2X)	20.3	--	--	121.0	---	---	13.0	-- --
Lynks LX4315 (2X)	20.3	--	--	137.7	---	---	3.5	-- --
Select 4700 (2X)	20.4	24	24	141.0	124	134	4.8	8 6
*Great Lakes GL-552 (2X)	20.4	24	23	156.7	144	148	2.2	3 2
Dairyland DX1012 (2X)	20.4	26	--	129.3	122	---	8.9	6 --
*O's Gold 6882 (2X)	20.5	26	--	154.6	149	---	1.4	3 --
*Stauffer Seeds S6596 (2X)	20.7	--	--	166.4	---	---	5.1	-- --
Payco SX860 (2X)	20.7	26	--	147.5	133	---	4.3	7 --
Rupp XR1639 (2X)	20.8	--	--	139.2	---	---	6.3	-- --
Hyland HL-2850 (2X)	20.8	--	--	149.4	---	---	5.0	-- --
*Funk G-4438 (2X)	21.0	--	--	153.3	---	---	4.4	-- --
Payco SX824 (2X)	21.0	--	--	126.8	---	---	10.9	-- --
*Rupp XR1780 (2X)	21.1	26	--	159.4	142	---	6.4	4 --
Dairyland DX1110 (2X)	21.1	--	--	144.7	---	---	12.0	-- --
*Garno S-102 (2X)	21.1	25	--	154.4	145	---	4.7	5 --
Northrup King PX9454 (2X)	21.1	--	--	133.4	---	---	7.6	-- --
*Paymaster 4790 (2X)	21.1	--	--	153.9	---	---	1.4	-- --
Asgrow RX622 (2X)	21.2	--	--	140.6	---	---	6.3	-- --
Great Lakes GL-5922 (2X)	21.2	25	24	150.5	141	149	3.1	6 4
Lynks LX4315A (2X)	21.3	--	--	131.7	---	---	12.3	-- --
*Custom CFS 6007 (2X)	21.3	26	25	153.5	143	147	2.9	3 2
Jacques 7780 (2X)	21.3	--	--	145.9	---	---	0.0	-- --
*Kaltenberg KX73 (2X)	21.4	25	--	156.7	143	---	3.6	5 --
Stauffer Seeds S6595 (2X)	21.6	--	--	147.4	---	---	4.3	-- --
Hyland HL-2823 (2X)	22.1	--	--	133.0	---	---	2.9	-- --
*Payco SX900 (2X)	23.2	--	--	162.3	---	---	2.1	-- --
Voris V2491 (2X)	23.4	--	--	133.7	---	---	2.8	-- --
Average	19.5	23	23	139.5	130	134	5.3	6 5
Range	17.1 to 23.4	21 to 26	21 to 25	106.0 to 170.2	109 to 154	117 to 157	0.0 to 12.3	1 to 11
Least Significant Difference	1.4	1.1	0.8	12.8	8	6	--	-- --

*Significantly better than average yield in 1982.

(continued)

Table 4 (continued)

	1982	1981	1980
Planted	May 4	May 19	May 8
Harvested	October 22	October 30	October 31
Soil Type	Kalamazoo loam	Kalamazoo loam	Kalamazoo loam
Previous Crop	Corn	Corn	Wheat and red clover
Population	21,700	21,500	21,100
Rows	30"	30"	30"
Fertilizer	122-39-39	101-45-122	108-32-16+2n
Soil Test: pH	5.8	5.8	6.8
P	67 (medium high)	68 (medium high)	140 (very high)
K	82 (low)	196 (medium)	275 (high)

Farm Cooperator: Richard Van Vrancken, Climax

County Agricultural Agent: Richard Bailey, Kalamazoo

Table 5

SOUTHERN MICHIGAN Zone 1
Cass County Trial - Irrigated Upland Soil
One, Two, Three Year Averages - 1982, 1981, 1980

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2	3	1982	2	3	1982	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Golden Harvest H-2440 (2X)	18.7	19	--	132.0	143	--	9.7	6	--
Farmers FCC224A (2X)	18.8	21	--	173.5	161	--	7.5	9	--
Super Crost 2790 (2X)	18.9	21	--	162.5	167	--	1.4	4	--
*Pioneer 3572 (2X)	18.9	20	22	192.0	183	187	0.7	1	1
O's Gold Exp. 24501 (2X)	18.9	21	--	136.6	150	--	4.6	6	--
Stauffer Seeds S5260 (2X)	19.0	21	--	154.4	154	--	3.5	2	--
Decatur 252 (3X)	19.0	20	--	132.1	134	--	7.8	8	--
Decatur 2775 (2X)	19.0	--	--	152.4	--	--	2.9	--	--
Prairie Stream SX34 (2X)	19.0	--	--	143.6	--	--	3.7	--	--
Paymaster 4660 (2X)	19.1	--	--	176.6	--	--	3.6	--	--
Decatur 2570 (2X)	19.1	20	--	177.6	164	--	6.1	5	--
Rupp XR1620 (2X)	19.1	--	--	147.9	--	--	3.5	--	--
Lynks LX4075 (2X)	19.1	20	--	148.1	137	--	3.6	4	--
DeKalb XL-32A (2X)	19.2	--	--	173.8	--	--	5.3	--	--
Pioneer 3707 (2X)	19.2	--	--	174.1	--	--	4.9	--	--
Great Lakes GL-477 (2X)	19.2	21	21	167.3	168	170	8.4	8	6
Paymaster 2990 (2X)	19.3	20	--	150.6	153	--	7.1	11	--
Lowe LSX222 (2X)	19.3	21	22	163.1	153	154	3.7	8	6
Dairyland DX1007B (2X)	19.3	--	--	167.5	--	--	5.2	--	--
*DeKalb EX-4040 (2X)	19.4	--	--	181.6	--	--	0.7	--	--
Northrup King PX39 (2X)	19.4	21	22	176.8	186	178	4.5	5	5
Dairyland DX1008 (2X)	19.4	20	22	160.0	151	146	3.5	5	5
Funk G-4342 (2X)	19.6	--	--	153.3	--	--	5.8	--	--
Paymaster 4790 (2X)	19.6	--	--	174.5	--	--	2.1	--	--
Rupp XR1625 (2X)	19.6	22	22	169.5	167	163	3.4	6	5
P.A.G. SX397 (2X)	19.7	22	23	157.5	166	171	5.8	7	6
*Select 3300 (2X)	19.7	21	22	181.2	166	166	5.9	7	5
Rupp XR1690 (2X)	19.7	21	23	168.9	162	155	3.6	4	4
Super Crost 3030 (2X)	19.8	--	--	166.7	--	--	3.6	--	--
Leader SX495 (2X)	19.8	--	--	156.8	--	--	2.1	--	--
Pioneer 3744 (2X)	19.8	21	--	166.4	156	--	2.1	2	--
Custom CFS 1450 (2X)	19.8	21	22	153.2	158	160	4.5	6	4
*Leader SX510 (2X)	19.9	--	--	181.3	--	--	2.1	--	--
Hyland HL-2784 (2X)	19.9	--	--	164.9	--	--	8.1	--	--
Garno S-98X (2X)	20.0	--	--	153.3	--	--	7.2	--	--
Hyland HL-2727 (2X)	20.0	--	--	140.5	--	--	8.3	--	--
Rupp XR1639 (2X)	20.0	--	--	172.6	--	--	2.1	--	--
*Lynks LX4225 (2X)	20.1	--	--	189.2	--	--	2.2	--	--
Custom CFS 6007 (2X)	20.1	22	23	165.0	165	161	2.3	7	5
*Stauffer Seeds S5650 (2X)	20.2	--	--	181.8	--	--	0.7	--	--
Garno S-94E (2X)	16.5	--	--	130.3	--	--	14.8	--	--
DeKalb T950 (2X)	16.7	--	--	130.7	--	--	5.7	--	--
Stauffer SX402 (2X)	16.8	--	--	138.1	--	--	11.4	--	--
Migro HP-266 (2X)	16.9	--	--	128.4	--	--	6.9	--	--
Golden Harvest H-2300 (MSX)	16.9	--	--	156.4	--	--	2.5	--	--
Parker 29 (2X)	17.2	19	20	153.7	152	142	11.9	15	13
Beck's 40X (2X)	17.2	19	--	146.9	158	--	9.9	7	--
Crow's 199 (2X)	17.3	--	--	152.0	--	--	5.7	--	--
Bo-Jac 14 (2X)	17.5	--	--	160.9	--	--	8.6	--	--
Payco SX620 (2X)	17.6	--	--	146.8	--	--	3.4	--	--
Lowe LSX217 (2X)	17.7	18	--	147.0	135	--	5.6	4	--
Gold Tag GT1822 (2X)	17.8	--	--	138.8	--	--	8.1	--	--
Stauffer Seeds S5602 (2X)	17.9	19	--	145.3	136	--	12.8	11	--
Pioneer 3747 (2X)	18.0	--	--	172.6	--	--	1.4	--	--
Funk G-4315 (MSX)	18.1	20	21	136.5	143	140	9.6	12	10
Great Lakes GL-516 (2X)	18.1	--	--	147.9	--	--	9.7	--	--
Cargill 861 (2X)	18.1	--	--	148.3	--	--	6.6	--	--
Cargill 436 (3X)	18.1	20	21	135.4	142	141	11.2	12	10
Beck's 45X (2X)	18.1	--	--	139.7	147	--	1.4	4	--
P.A.G. SX181 (2X)	18.2	20	20	131.7	127	133	5.6	7	6
Gold Tag GT1090 (MSX)	18.2	19	20	144.5	145	142	10.1	10	8
Prairie Stream SX33 (2X)	18.2	20	21	148.4	153	158	6.1	7	6
DeKalb T-Exp. 1056 (2X)	18.2	--	--	139.4	--	--	7.4	--	--
Custom CFS W3610 (2X)	18.2	--	--	136.6	--	--	9.2	--	--
Pride 3311 (2X)	18.3	--	--	125.2	--	--	27.1	--	--

(continued)

Table 5 (continued)

Hybrid (Brand-Variety)	% Moisture		Bushels Per Acre			% Stalk Lodging			
	1982 yr.	2 yr.	3 yr.	1982 yr.	2 yr.	3 yr.	1982 yr.	2 yr.	3 yr.
Cargill 872 (2X)	18.3	20	21	139.3	145	161	17.2	12	11
Rupp XR1591 (2X)	18.4	19	20	131.7	138	134	8.3	8	7
DeKalb EX-2929 (2X)	18.5	--	--	170.3	--	--	6.5	--	--
Renk RK24 (2X)	18.5	20	--	128.4	138	--	14.5	12	--
DeKalb T1000 (2X)	18.5	20	--	135.4	138	--	17.7	13	--
Payco SX722 (2X)	18.5	--	--	155.8	--	--	3.6	--	--
Jacques JX151 (2X)	18.6	--	--	130.4	--	--	15.7	--	--
Pioneer 3780 (2X)	18.6	20	21	147.8	146	153	8.9	8	6
Cargill 862 (2X)	18.6	19	--	157.0	144	--	4.5	8	--
Farm Bureau FBS 3440 (2X)	18.6	21	22	156.0	152	149	4.4	4	4
Crow's 430 (2X)	18.6	--	--	156.0	--	--	5.0	--	--
DeKalb XL-36 (2X)	18.7	20	--	142.0	151	--	4.9	6	--
Northrup King PX9288 (2X)	18.7	--	--	141.1	--	--	8.0	--	--
Lynks LX4100 (2X)	18.7	20	--	138.1	135	--	12.6	9	--
Payco SX788 (2X)	18.7	21	--	134.3	147	--	16.5	11	--
Funk G-4323 (MSX)	20.2	21	22	162.4	161	158	8.0	8	7
Leader SX505 (2X)	20.2	--	--	146.7	--	--	10.4	--	--
Gold Tag GT2060 (MSX)	20.2	22	22	178.6	169	168	2.2	4	4
Dairyland DX1105 (2X)	20.2	--	--	167.3	--	--	5.5	--	--
Farm Bureau FBS X337 (2X)	20.2	--	--	144.4	--	--	10.8	--	--
*Beck's 49 (2X)	20.2	--	--	184.3	--	--	2.1	--	--
*Parker 60A (2X)	20.3	23	--	195.3	176	--	4.4	4	--
*Payco SX824 (2X)	20.3	--	--	178.1	--	--	1.4	--	--
Golden Harvest H-2448 (2X)	20.3	22	22	159.8	158	156	3.7	3	3
Northrup King PX9454 (2X)	20.4	22	--	153.4	154	--	3.8	6	--
*Payco SX844 (2X)	20.5	22	--	182.7	172	--	2.2	2	--
Voris 2441 (2X)	20.5	21	22	146.5	158	162	3.8	4	4
*Select 4800 (2X)	20.6	23	--	194.2	189	--	0.7	2	--
Hyland HL-2850 (2X)	20.6	--	--	168.7	--	--	2.8	--	--
Rupp XR1624 (2X)	20.6	21	21	149.2	152	145	10.4	8	6
Crow's 444 (2X)	20.6	--	--	156.3	--	--	6.3	--	--
Lynks LX4210 (2X)	20.7	21	--	144.5	149	--	2.2	2	--
*Great Lakes GL-5922 (2X)	20.7	22	23	200.6	189	188	5.9	7	5
Dairyland DX1007 (2X)	20.8	22	--	175.3	181	--	3.8	4	--
Lowe LSX217 (2X)	20.9	21	22	144.6	152	154	7.5	7	6
Prairie Stream SX50A (2X)	20.9	23	24	174.7	168	166	0.7	1	2
Crow's 555 (2X)	20.9	--	--	166.3	--	--	0.7	--	--
*O's Gold 6882 (2X)	21.0	23	--	191.3	178	--	2.8	5	--
*Funk G-4438 (2X)	21.1	--	--	184.5	--	--	7.2	--	--
*Great Lakes GL-552 (2X)	21.1	22	22	181.2	178	172	3.6	4	3
*Pioneer 3535 (2X)	21.1	22	24	182.2	180	184	3.6	5	3
*Bo-Jac 432 (2X)	21.1	--	--	188.2	--	--	1.4	--	--
*Garno S-104X (2X)	21.2	--	--	194.0	--	--	0.7	--	--
Leader SX490 (2X)	21.3	--	--	149.5	--	--	6.6	--	--
*Migro HP-470 (2X)	21.3	23	24	205.5	196	185	0.7	4	3
*Gold Tag GT3006 (2X)	21.3	23	--	181.2	174	--	3.6	4	--
*Renk RK66 (2X)	21.3	22	23	182.0	175	165	5.0	7	6
Custom CFS W5410 (2X)	21.3	22	--	165.7	174	--	5.8	6	--
Asgrow RX610 (2X)	21.5	--	--	172.1	--	--	4.2	--	--
*Bo-Jac 452 (2X)	21.5	--	--	184.6	--	--	2.1	--	--
Hyland HL-2823 (2X)	21.6	--	--	156.4	--	--	4.4	--	--
P.A.G. SX249 (2X)	21.7	22	--	155.6	159	--	4.9	6	--
Renk RK75 (2X)	21.7	--	--	169.5	--	--	0.0	--	--
Stauffer Seeds 606WX (2X)	21.8	22	--	160.4	159	--	7.2	8	--
Jacques JX179 (2X)	21.8	--	--	177.2	--	--	3.9	--	--
*Northrup King PX74 (2X)	21.9	24	25	204.5	194	185	4.7	6	4
Pioneer 3541 (2X)	21.9	23	24	175.9	172	167	1.5	5	4
*Voris V2472 (2X)	21.9	22	--	183.1	172	--	3.6	3	--
Stauffer Seeds S6389 (2X)	22.0	22	--	178.2	172	--	1.5	4	--
*DeKalb XL-55A (2X)	22.0	23	23	193.4	185	188	7.0	7	6
*Cargill 921 (2X)	22.0	24	25	194.0	194	182	5.9	5	4
*Stauffer Seeds S6595 (2X)	22.1	--	--	191.2	--	--	5.0	--	--
*Stauffer Seeds S6596 (2X)	22.1	--	--	198.9	--	--	2.0	--	--
Asgrow RX622 (2X)	22.1	--	--	161.2	--	--	8.4	--	--
*Voris V2491 (2X)	22.1	24	--	184.1	177	--	0.0	2	--
Beck's 60X (2X)	22.1	24	--	171.4	164	--	6.5	6	--
*Funk G-4435 (MSX)	22.2	24	25	188.6	173	166	2.9	5	5
Leader SX575 (2X)	22.2	--	--	174.8	--	--	2.9	--	--
Select 4700 (2X)	22.2	22	23	170.3	173	171	7.4	5	4
Dairyland DX1110 (2X)	22.4	--	--	167.9	--	--	5.1	--	--
*Payco SX860 (2X)	22.4	24	--	197.3	178	--	2.1	4	--
Pride 5511 (2X)	22.5	--	--	175.8	--	--	2.0	--	--
Lynks LX4315 (2X)	22.6	24	--	178.1	169	--	2.1	3	--
*Bo-Jac 5601 (2X)	22.7	--	--	208.1	--	--	2.1	--	--
Super Crost 4337 (2X)	22.8	--	--	162.8	--	--	4.2	--	--
Cargill 924 (2X)	22.8	24	--	174.8	168	--	5.2	6	--
Leader SX555 (2X)	23.0	23	--	181.0	172	--	3.7	7	--
DeKalb T1100 (2X)	23.1	24	--	162.2	166	--	0.7	3	--
Rupp XR1780 (2X)	23.2	24	25	160.8	164	163	0.7	2	2
Lynks LX4315A (2X)	23.3	--	--	165.8	--	--	1.4	--	--
*Custpm CFS W4000 (2X)	23.4	25	--	185.3	182	--	2.2	3	--
*Renk RK77 (2X)	23.5	25	26	202.7	183	177	5.1	5	3
*Beck's 65X (2X)	23.5	--	--	216.6	--	--	0.8	--	--
*Payco SX900 (2X)	23.6	--	--	204.5	--	--	0.0	--	--
*Select 5188 (2X)	23.9	--	--	211.2	--	--	3.6	--	--

Table 5 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Lowe LSX 317 (2X)	23.9	24	25	167.2	166	170	3.1	5	3
*Golden Harvest H-2500 (2X)	24.0	25	25	202.4	194	184	5.1	4	2
*Vorix Exp. 1007 (2X)	25.8	--	--	206.0	--	--	2.2	--	--
Average	20.1	21	22	165.2	162	163	5.3	6	5
Range	16.5	18	20	125.2	127	133	0.0	1	1
	to	to	to	to	to	to	to	to	to
	25.8	25	26	216.6	196	188	27.1	15	13
Least Significant Difference	1.3	0.8	0.7	15.7	9	6	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	May 11	May 19	May 5
Harvested	October 25	November 2	October 3
Soil Type	Oshemo sandy loam	Oshemo sandy loam	Oshemo sandy loam
Previous Crop	Corn	Corn	Corn
Population	23,500	23,200	23,500
Rows	30"	30"	30"
Fertilizer	214-80-103	268-60-135+Zn	273-76-102
	+ manure		
Irrigation	4 inches	6 inches	6 inches
Soil Test: pH	6.5	6.8	6.7
P	69 (medium high)	241 (very high)	260 (very high)
K	315 (very high)	352 (very high)	411 (very high)

Farm Cooperator: Dave Cripe, Cassopolis

County Agricultural Agent: G. Wayne Hothem, Cassopolis

Table 6

SOUTH CENTRAL MICHIGAN
Cass County Trial - Muck Soil
One, Two, Three Year Averages - 1982, 1981, 1980

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Stauffer Seeds S2101WX (2X)	25.4	--	--	62.2	--	--	4.4	--	--
Pride 3332 (2X)	26.1	--	--	78.4	--	--	6.7	--	--
Stauffer Seeds S4402 (2X)	26.7	23	--	106.3	106	--	5.3	6	--
Stauffer Seeds S3242 (2X)	26.9	--	--	99.4	--	--	2.3	--	--
*Funk G-4256 (3X)	27.3	26	24	109.7	105	100	7.5	10	11
Renk RK18 (2X)	28.0	24	22	103.0	99	102	7.0	6	8
Pioneer 3901 (2X)	28.1	24	23	69.7	83	89	0.8	3	5
Pioneer 3906 (2X)	28.1	--	--	86.6	--	--	2.3	--	--
*Lynks LX4075 (2X)	28.3	24	--	113.2	104	--	3.6	3	--
Vorix V2331 (2X)	29.0	24	--	76.7	90	--	7.6	7	--
*Bo-Jac 14 (2X)	29.0	--	--	115.6	--	--	6.1	--	--
Stauffer Seeds S3306 (2X)	29.0	--	--	74.8	--	--	3.0	--	--
Great Lakes GL-466 (2X)	29.2	--	--	100.5	--	--	3.7	--	--
Payco SX620 (2X)	29.4	--	--	91.0	--	--	2.2	--	--
DeKalb EX-2120 (2X)	29.4	--	--	93.0	--	--	3.1	--	--
Golden Harvest H-2300 (MSX)	29.6	--	--	71.7	--	--	3.9	--	--
P.A.G. SX181 (2X)	29.7	25	24	73.2	86	89	3.9	7	9
Golden Harvest H-2380 (2X)	29.9	--	--	91.2	--	--	4.4	--	--
Migro HP-266 (2X)	29.9	--	--	71.3	--	--	6.7	--	--
Migro HP-277 (2X)	29.9	25	--	68.9	96	--	3.1	4	--
Golden Harvest XS-679 (2X)	30.1	--	--	86.9	--	--	0.8	--	--
Pioneer 3744 (2X)	30.3	25	--	90.3	108	--	0.7	3	--
Pioneer 3707 (2X)	30.4	--	--	102.2	--	--	0.0	--	--
DeKalb XL-18 (2X)	30.4	--	--	93.3	--	--	0.8	--	--
Rupp XRI591 (2X)	30.5	26	24	76.9	92	91	6.2	6	7
Asgrow RX511 (2X)	30.5	26	24	73.0	87	89	4.6	9	16
Warwick T1044 (2X)	30.7	--	--	118.3	--	--	1.6	--	--
Pioneer 3780 (2X)	31.0	26	25	98.8	106	106	4.4	7	10
Dairyland DX1006 (2X)	31.4	--	--	75.5	--	--	2.3	--	--
Hyland HL-2784 (2X)	31.5	--	--	81.5	--	--	2.3	--	--
Great Lakes GL-477 (2X)	31.6	27	25	100.9	111	120	8.2	8	9
Funk G-4315 (MSX)	31.6	26	--	78.6	98	--	3.9	6	--
Great Lakes GL-522 (2X)	31.8	--	--	82.5	--	--	0.8	--	--
Dairyland DX1105 (2X)	31.9	--	--	105.1	--	--	3.0	--	--
Super Crost 2406 (2X)	31.9	27	--	78.7	98	--	0.7	4	--
P.A.G. SX189 (2X)	31.9	27	25	67.4	77	78	11.3	11	16
Migro HP-360 (2X)	32.0	27	--	106.8	110	--	4.8	5	--
Hyland HL-2727 (2X)	32.2	--	--	87.3	--	--	2.3	--	--
Stauffer Seeds S5602 (2X)	32.3	28	--	94.1	100	--	2.9	5	--
Great Lakes GL-5922 (2X)	32.4	28	26	107.4	117	118	4.4	7	9

(continued)

Table 6 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Dairyland DX1110 (2X)	32.4	--	--	95.7	--	--	2.3	--	--
Stauffer Seeds S5650 (2X)	32.4	--	--	86.1	--	--	0.8	--	--
Rupp XRI620 (2X)	32.6	--	--	103.5	--	--	2.3	--	--
Rupp XRI624 (2X)	32.6	28	26	76.0	92	95	2.2	7	8
Pride 4461 (2X)	32.7	27	--	104.0	123	--	0.9	3	--
Beck's 40X (2X)	32.8	27	--	95.0	100	--	3.0	7	--
Vorix V2411 (2X)	32.8	--	--	80.1	--	--	1.5	--	--
*Leader SX490 (2X)	32.8	--	--	107.6	--	--	0.0	--	--
*Hyland HL-2850 (2X)	32.8	--	--	124.4	--	--	3.2	--	--
Lynks LX4100 (2X)	32.8	28	--	101.9	103	--	5.4	7	--
Super Crost 2396 (2X)	32.8	27	26	80.6	109	111	5.3	8	11
Rupp XRI625 (2X)	33.0	28	--	98.3	118	--	3.0	4	--
Paymaster 2990 (2X)	33.0	27	--	101.2	92	--	1.5	9	--
Payco SX788 (2X)	33.0	--	--	82.0	--	--	3.1	--	--
Payco SX844 (2X)	33.0	28	26	89.7	106	110	0.8	6	8
Pro-Seed HL-2725 (2X)	33.1	--	--	92.5	--	--	0.8	--	--
Paymaster 4660 (2X)	33.1	--	--	98.1	--	--	1.9	--	--
Leader SX510 (2X)	33.1	--	--	75.0	--	--	1.5	--	--
Golden Harvest H-2448 (2X)	33.1	--	--	79.8	--	--	3.0	--	--
Great Lakes GL-516 (2X)	33.2	28	--	95.6	113	--	3.5	7	--
Pride 4488 (2X)	33.2	28	26	80.4	108	117	0.0	4	5
Rupp XRI639 (2X)	33.3	--	--	88.6	--	--	2.2	--	--
DeKalb XL-25A (2X)	33.3	--	--	86.3	--	--	0.8	--	--
Rupp XRI690 (2X)	33.3	29	--	88.9	98	--	1.6	3	--
Funk G-4342 (2X)	33.3	--	--	102.9	--	--	1.6	--	--
Lynks LX4225 (2X)	33.4	--	--	99.4	--	--	4.0	--	--
Vorix V2472 (2X)	33.4	28	--	80.7	98	--	1.6	4	--
Vorix Exp. 0064 (2X)	33.4	--	--	103.5	--	--	0.8	--	--
P.A.G. SX249 (2X)	33.5	29	27	82.1	108	109	1.5	6	6
Renk RK24 (2X)	33.5	28	--	83.8	103	--	1.5	4	--
DeKalb XL-55A (2X)	33.5	--	--	100.4	--	--	6.8	--	--
*Payco SX824 (2X)	33.5	--	--	115.0	--	--	3.1	--	--
Lynks LX4210 (2X)	33.7	29	--	79.4	90	--	3.1	4	--
Golden Harvest XS-436 (2X)	33.7	--	--	103.6	--	--	0.8	--	--
Leader SX495 (2X)	33.7	--	--	79.3	--	--	4.4	--	--
Lynks LX4315A (2X)	33.8	--	--	81.0	--	--	4.7	--	--
Stauffer Seeds S6389 (2X)	33.8	28	--	89.4	109	--	1.5	3	--
*Bo-Jac 432 (2X)	33.8	--	--	122.2	--	--	0.0	--	--
Leader SX505 (2X)	33.9	--	--	83.8	--	--	5.2	--	--
Dairyland DX1008 (2X)	34.0	28	--	84.7	99	--	1.5	8	--
Payco SX722 (2X)	34.0	--	--	94.4	--	--	1.5	--	--
P.A.G. SX397 (2X)	34.0	28	27	88.1	101	105	0.8	3	6
O's Gold Exp. 24501 (2X)	34.0	28	--	81.3	95	--	1.5	2	--
Beck's 45X (2X)	34.1	29	--	86.4	108	--	1.5	3	--
*Leader SX555 (2X)	34.3	--	--	111.1	--	--	2.9	--	--
O's Gold 1170A (2X)	34.4	29	--	96.6	113	--	0.0	1	--
Paymaster 4790 (2X)	34.5	--	--	86.5	--	--	2.9	--	--
Funk G-4435 (MSX)	34.5	30	28	91.3	106	112	0.7	3	5
*DeKalb EX-4040 (2X)	34.8	--	--	112.6	--	--	0.8	--	--
Rupp XRI780 (2X)	34.9	32	--	92.3	93	--	0.8	2	--
Beck's 65XS (2X)	35.0	--	--	103.2	--	--	0.0	--	--
Lynks LX4315 (2X)	35.3	30	--	91.1	93	--	1.5	12	--
Leader SX575 (2X)	35.4	--	--	94.2	--	--	0.0	--	--
*Payco SX860 (2X)	35.6	31	--	115.4	114	--	1.5	4	--
Bo-Jac 452 (2X)	35.6	--	--	91.3	--	--	1.5	--	--
*Payco SX900 (2X)	35.7	--	--	115.3	--	--	0.0	--	--
Hyland HL-2823 (2X)	35.8	--	--	86.0	--	--	1.5	--	--
O's Gold 6882 (2X)	36.2	32	--	100.0	105	--	0.0	3	--
Average	32.1	27	25	97.7	101	101	2.7	5	9
Range	25.4	23	22	62.2	77	78	0.0	1	5
	to	to	to	to	to	to	to	to	to
	36.2	32	28	124.4	123	118	11.3	12	16
Least Significant Difference	2.1	1.5	1.0	10.1	7	6	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	June 9	May 23	May 24
Harvested	November 8	November 2	November 3
Soil type	Houghton muck	Houghton muck	Houghton muck
Previous crop	Corn	Corn	Corn
Population	21,800	21,400	21,500
Rows	30"	30"	30"
Fertilizer	105-15-30	129-29-104	118-26-60
Soil test: pH	5.2	5.2	5.4
P	60 (med. high)	45 (medium)	134 (very high)
K	445 (very high)	733 (very high)	465 (very high)

Farm Cooperators: Oliver, Russell and Roger Anderson, Cassopolis

County Agricultural Agent: G. Wayne Hothem, Cassopolis

Table 7

SOUTH CENTRAL MICHIGAN
Kent County Trial
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 2

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Select 2600 (2X)	17.6	20	--	144.6	141	---	1.4	4	--
Hyland HL-2727 (2X)	18.3	--	--	127.3	---	---	3.7	--	--
Pride 4461 (2X)	18.5	20	--	131.2	136	---	2.5	3	--
Dairyland DX1096 (2X)	18.6	20	20	154.5	135	138	5.3	7	6
Wolverine W166 (2X)	18.6	21	21	161.2	141	145	6.0	7	6
Northrup King PX9288 (2X)	18.7	--	--	137.4	---	---	4.2	--	--
Dairyland DX1003 (2X)	18.9	20	21	134.0	139	145	1.4	3	3
Migro HP-266 (2X)	19.0	--	--	163.6	---	---	0.7	--	--
Northrup King PX9144 (2X)	19.1	--	--	142.0	---	---	15.0	--	--
Golden Harvest H-2300 (MSX)	19.3	--	--	146.9	---	---	1.4	--	--
Great Lakes GL-466 (2X)	19.3	21	--	153.3	145	---	10.4	8	--
Super Crost 2396 (2X)	19.5	23	--	161.3	146	---	0.7	5	--
Northrup King PX449 (3X)	19.5	--	--	135.6	---	---	5.5	--	--
Rupp XR1639 (2X)	19.6	--	--	150.0	---	---	0.7	--	--
Custom CFS 4004 (2X)	19.7	21	--	166.0	157	---	4.8	3	--
Great Lakes GL-455 (2X)	19.7	--	--	166.5	---	---	2.2	--	--
Renk RK18 (2X)	19.7	--	--	159.0	---	---	5.9	--	--
Decatur 2570 (2X)	19.8	--	--	145.6	---	---	2.8	--	--
DeKalb EX-1615 (2X)	19.8	--	--	164.7	---	---	5.4	--	--
DeKalb EX-2120 (2X)	20.0	--	--	130.8	---	---	5.0	--	--
Payco SX788 (2X)	20.0	--	--	138.7	---	---	4.9	--	--
Pioneer 3901 (2X)	20.1	21	21	136.2	128	133	3.4	8	6
*Great Lakes GL-422 (2X)	20.2	21	21	172.5	147	145	2.8	6	5
Wolverine W168 (2X)	20.2	--	--	144.1	---	---	5.1	--	--
Gries GSF X500 (2X)	20.2	--	--	134.5	---	---	2.2	--	--
DeKalb XL-14AA (2X)	20.2	--	--	155.1	---	---	0.7	--	--
Select 3300 (2X)	20.3	23	23	147.5	148	155	0.8	2	2
Funk G-4256 (3X)	20.3	23	23	158.3	147	138	6.3	5	5
Andersons SSA (2X)	20.3	22	21	152.3	129	127	3.7	10	7
Dairyland DX1007 (2X)	20.3	--	--	144.6	---	---	0.9	--	--
Select 2440 (2X)	20.3	--	--	133.5	---	---	2.1	--	--
Farm Bureau FBS 3330 (MSX)	20.4	22	--	143.5	140	---	2.1	1	--
Gries GSF X600 (2X)	20.4	--	--	154.2	---	---	4.3	--	--
Jacques JX97 (2X)	20.4	--	--	165.9	---	---	1.4	--	--
Funk G-4224 (MSX)	20.4	22	--	145.8	137	---	2.8	3	--
*Pioneer 3780 (2X)	20.5	22	22	168.6	148	147	4.2	6	6
Super Crost 2410 (2X)	20.5	23	--	157.7	149	---	1.4	2	--
P.A.G. SX181 (2X)	20.5	22	23	140.5	127	133	6.7	10	8
Northrup King PX37 (2X)	20.5	23	24	151.2	147	153	2.1	3	2
Andersons SSX (2X)	20.5	--	--	153.1	---	---	5.4	--	--
Hyland HL-2454 (2X)	20.6	21	--	149.2	139	---	2.9	5	--
Stauffer Seeds S3242 (2X)	20.6	--	--	157.8	---	---	0.7	--	--
Payco SX620 (2X)	20.6	--	--	157.0	---	---	2.2	--	--
Migro HP-277 (2X)	20.6	21	--	161.9	151	---	1.4	4	--
DeKalb Exp. 1056 (2X)	20.6	--	--	152.8	---	---	2.1	--	--
Leader SX495 (2X)	20.6	--	--	151.1	---	---	0.7	--	--
*DeKalb XL-25A (2X)	20.6	21	22	168.2	142	150	0.0	1	1
Dairyland DX1006 (2X)	20.6	--	--	156.2	---	---	0.7	--	--
Stauffer Seeds S5650 (2X)	20.7	--	--	145.7	---	---	0.7	--	--
Farmers FCC224A (2X)	20.7	23	--	146.6	144	---	4.7	6	--
Jacques JX151 (2X)	20.7	--	--	161.4	---	---	2.9	--	--
Rupp XR1624 (2X)	20.7	23	--	138.6	131	---	3.5	4	--
Stauffer Seeds S6389 (2X)	20.7	--	--	143.8	---	---	2.0	--	--
Great Lakes GL-477 (2X)	20.7	22	23	167.1	156	161	3.0	4	4
Custom CFS E96002 (2X)	20.8	--	--	159.0	---	---	4.3	--	--
Golden Harvest H-2440 (2X)	20.8	23	--	160.2	144	---	4.2	4	--
Hyland HL-2784 (2X)	20.9	--	--	149.7	---	---	2.1	--	--
Stauffer Seeds 606WX (2X)	20.9	23	--	153.0	151	---	2.1	9	--
DeKalb T950 (2X)	20.9	21	--	139.3	129	---	2.1	3	--
Pro-Seed HL-2725 (2X)	20.9	--	--	149.1	---	---	2.2	--	--
*Rupp XR1690 (2X)	20.9	23	--	171.9	163	---	1.4	5	--
Payco SX599 (2X)	20.9	--	--	138.9	---	---	3.7	--	--
Funk G-4323 (MSX)	20.9	23	24	161.4	150	152	0.0	3	2
O's Gold 6880 (2X)	21.0	23	--	163.0	161	---	2.1	3	--
Custom CFS W5410 (2X)	21.0	24	--	140.6	146	---	8.3	6	--
Lynks LX4210 (2X)	21.0	22	--	162.9	147	---	3.4	2	--
Golden Harvest H-2448 (2X)	21.1	23	23	152.7	148	156	1.4	4	3
Stanton SX1095 (2X)	21.1	--	--	158.6	---	---	0.7	--	--
Payco SX844 (2X)	21.1	23	24	154.6	139	145	1.4	6	4
Custom CFS W3610 (2X)	21.1	23	--	139.0	149	---	3.6	5	--
*Great Lakes GL-5922 (2X)	21.1	23	24	170.7	159	160	4.2	4	3
Dairyland DX1008 (2X)	21.2	22	24	149.6	145	147	3.0	4	5
*DeKalb XL-55A (2X)	21.2	23	24	172.0	160	156	5.5	7	6
Hyland HL-2440 (2X)	21.2	--	--	143.8	---	---	7.8	--	--
Leader SX510 (2X)	21.2	--	--	142.3	---	---	2.3	--	--
Leader SX555 (2X)	21.2	23	--	157.1	149	---	0.0	2	--
*Funk G-4342 (2X)	21.2	--	--	175.9	---	---	3.6	--	--
Eastland 248 (MSX)	21.3	--	--	158.9	---	---	2.7	--	--
Paymaster 4660 (2X)	21.3	--	--	141.5	---	---	0.0	--	--
Renk RK66 (2X)	21.3	23	23	154.8	145	148	0.0	4	4

(continued)

Table 7 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
*DeKalb T1000 (2X)	21.3	23	--	171.7	152	---	2.8	5	--
Farm Bureau FBS 355 (2X)	21.4	--	--	156.6	---	---	1.4	--	--
*Pioneer 3744 (2X)	21.5	22	--	169.5	150	---	0.7	3	--
Lynks LX4225 (2X)	21.6	--	--	166.0	---	---	1.4	--	--
Select 3222 (2X)	21.6	23	--	156.9	143	---	1.4	3	--
Great Lakes GL-522 (2X)	21.6	23	--	164.3	151	---	0.0	2	--
Andersons SSE (2X)	21.7	23	23	153.5	136	131	11.0	8	7
Stauffer Seeds S5602 (2X)	21.7	23	--	153.1	143	---	7.7	9	--
*O's Gold 1170A (2X)	21.7	--	--	176.6	---	---	0.7	--	--
Pride 5511 (2X)	21.7	--	--	149.8	---	---	0.0	--	--
P.A.G. SX397 (2X)	21.8	--	--	163.4	---	---	3.7	--	--
*Rupp XR1625 (2X)	21.8	24	--	172.8	160	---	0.0	2	--
Super Crost 2406 (2X)	21.9	23	--	142.9	143	---	2.3	4	--
Stauffer Seeds S4402 (2X)	21.9	22	--	160.0	150	---	2.2	2	--
Renk RK24 (2X)	21.9	23	--	153.5	136	---	3.6	4	--
DeKalb EX-4040 (2X)	22.0	--	--	164.9	---	---	2.8	--	--
Decatur 2775 (2X)	22.1	--	--	160.1	---	---	2.2	--	--
Rupp XR1620 (2X)	22.1	--	--	157.7	---	---	4.1	--	--
*Lynks LX4100 (2X)	22.2	23	--	172.8	147	---	2.9	3	--
DeKalb EX-2929 (2X)	22.2	--	--	145.9	---	---	6.9	--	--
Stauffer Seeds S5260 (2X)	22.2	--	--	153.5	---	---	2.5	--	--
Rupp XR1591 (2X)	22.3	23	23	156.7	141	140	1.6	3	2
*Payco SX860 (2X)	22.3	25	--	182.5	159	---	1.4	3	--
*Stanton SX10100 (2X)	22.3	--	--	176.7	---	---	2.2	--	--
Funk G-4315 (MSX)	22.5	--	--	148.5	---	---	4.8	--	--
Great Lakes GL-516 (2X)	22.6	23	--	159.7	155	---	2.9	4	--
*Paymaster 2990 (2X)	22.6	23	--	170.7	156	---	3.5	4	--
*Custom CFS 1450 (2X)	22.7	--	--	168.5	---	---	0.7	--	--
Rupp XR1780 (2X)	23.3	--	--	150.7	---	---	2.9	--	--
Lynks LX4075 (2X)	23.7	23	--	168.5	141	---	1.6	2	--
*DeKalb XL-32A (2X)	23.9	24	24	167.9	159	159	2.8	4	3
Dairyland DX1105 (2X)	23.9	--	--	141.4	---	---	3.9	--	--
Average	20.8	22	23	154.3	146	146	3.1	4	4
Range	17.6 to 23.9	20 to 25	20 to 24	127.3 to 182.5	127 to 163	127 to 161	0.0 to 15.0	1 to 10	1 to 8
Least Significant Difference	1.3	1.0	0.8	13.2	9	5	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	May 6	May 7	May 12
Harvested	October 26	November 3	November 4
Soil type	Belville loam	Belville loam	Belville loam
Previous crop	Wheat	Corn	Corn
Population	21,600	21,300	21,700
Rows	30"	30"	30"
Fertilizer	114-53-96	119-82-60	136-69-99
Soil test: pH	6.6	6.6	7.5
P	67 (medium high)	347 (very high)	80 (high)
K	184 (medium)	288 (high)	355 (very high)

Farm Cooperator: Gerald Kayser, Caledonia

County Agricultural Agent: Robert Knisely, Grand Rapids

Table 8

SOUTH CENTRAL MICHIGAN
Ottawa County Trial
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 1

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Rupp XR1591 (2X)	21.7	23	22	134.0	124	112	7.6	12	9
Stauffer Seeds S3242 (2X)	21.9	22	--	128.9	115	---	5.0	6	--
DeKalb T950 (2X)	22.0	22	--	131.9	118	---	9.1	14	--
DeKalb EX-1615 (2X)	22.0	--	--	140.2	---	---	8.6	--	--
Custom CFS 4004 (2X)	22.1	--	--	121.5	---	---	13.3	--	--
Payco SX599 (2X)	22.1	--	--	122.1	---	---	2.9	--	--
Jacques JX97 (2X)	22.2	--	--	123.6	---	---	9.2	--	--
Andersons SSA (2X)	22.3	22	22	119.6	102	99	16.0	16	14
Funk G-4256 (3X)	22.4	24	22	147.0	136	120	9.2	8	9
Migro HP-266 (2X)	22.4	--	--	122.8	---	---	10.1	--	--

(continued)

Table 8 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Stauffer Seeds S3306 (2X)	22.4	--	--	120.3	---	---	12.8	--	--
Payco SX620 (2X)	22.5	--	--	136.3	---	---	9.9	--	--
Funk G-4224 (MSX)	22.6	23	22	123.1	108	106	17.4	17	13
Garno S-94E (2X)	22.7	--	--	129.8	---	---	15.2	--	--
Great Lakes GL-455 (2X)	22.7	23	22	135.1	130	129	8.4	13	14
P.A.G. SX181 (2X)	22.9	23	--	123.8	114	---	5.0	10	--
P.A.G. SX189 (2X)	22.9	--	--	118.1	---	---	16.4	--	--
Hyland HL-2440 (2X)	23.0	--	--	117.7	---	---	24.5	--	--
Pioneer 3901 (2X)	23.0	23	22	133.7	125	119	3.6	12	10
Wolverine W126 (2X)	23.0	--	--	120.3	---	---	9.7	--	--
Custom CFS 2004 (2X)	23.1	24	23	142.5	127	124	14.2	14	10
Garno S-90 (2X)	23.2	23	22	143.9	123	123	6.3	22	17
Eastland 248 (MSX)	23.4	--	--	146.6	---	---	12.1	--	--
Dairyland DX1003 (2X)	23.4	23	22	137.3	122	119	8.5	10	9
Stauffer Seeds S4402 (2X)	23.4	23	--	128.5	111	---	11.7	10	--
Dairyland DX1096 (2X)	23.5	24	--	133.9	117	---	11.4	22	--
Super Crost 2350 (2X)	23.5	24	23	135.6	123	120	6.8	13	10
Wolverine W166 (2X)	23.8	24	--	129.1	112	---	5.8	17	--
Great Lakes GL-466 (2X)	23.9	24	--	140.6	127	---	12.0	14	--
Migro HP-277 (2X)	23.9	23	--	123.4	118	---	1.4	5	--
DeKalb EX-2120 (2X)	23.9	--	--	125.6	---	---	6.3	--	--
Golden Harvest H-2300 (MSX)	24.0	--	--	133.9	---	---	6.9	--	--
DeKalb XL-14AA (2X)	24.1	--	--	130.4	---	---	0.7	--	--
Great Lakes GL-477 (2X)	24.2	25	23	148.9	133	138	5.8	7	7
Pride 4422N (2X)	24.3	--	--	127.2	---	---	5.8	--	--
Hyland HL-2454 (2X)	24.3	--	--	140.1	---	---	7.8	--	--
*Pioneer 3744 (2X)	24.4	24	--	161.4	143	---	2.1	6	--
Pioneer 3780 (2X)	24.4	24	23	147.6	131	127	5.0	6	8
Pride 5525 (2X)	24.4	24	23	149.9	138	135	6.5	9	9
Custom CFS W3610 (2X)	24.7	--	--	132.4	---	---	9.8	--	--
Paymaster 2990 (2X)	24.8	25	--	145.8	130	---	5.1	8	--
Dairyland DX1007B (2X)	24.8	25	23	134.7	131	127	8.9	9	9
Hyland HL-2727 (2X)	25.0	--	--	140.4	---	---	4.3	--	--
Great Lakes GL-516 (2X)	25.0	--	--	147.3	---	---	6.3	--	--
Super Crost 2410 (2X)	25.2	26	--	139.4	125	---	6.5	9	--
Funk G-4315 (MSX)	25.2	--	--	132.8	---	---	3.5	--	--
DeKalb T1000 (2X)	25.3	26	--	151.2	123	---	10.1	10	--
DeKalb XL-25A (2X)	25.3	25	24	153.8	137	128	1.4	5	3
Decatur 2775 (2X)	25.3	--	--	140.9	---	---	2.1	--	--
Rupp XR1624 (2X)	25.3	25	--	140.3	130	---	2.9	11	--
*Great Lakes GL-5922 (2X)	25.4	26	24	161.9	141	140	1.5	3	3
*Stauffer Seeds 606WX (2X)	25.4	27	25	161.4	135	132	4.3	14	14
*Rupp XR1625 (2X)	25.4	26	--	159.7	138	---	0.7	4	--
Hyland HL-2784 (2X)	25.4	--	--	149.4	---	---	5.8	--	--
Funk G-4323 (MSX)	25.5	26	25	149.7	126	125	10.3	12	11
Stauffer Seeds S3406WX (2X)	25.6	--	--	120.8	---	---	23.0	--	--
*Super Crost 2396 (2X)	25.6	26	25	157.2	138	133	7.4	11	10
Dairyland DX1006 (2X)	25.8	--	--	141.0	---	---	5.7	--	--
*Stauffer Seeds S5650 (2X)	25.8	--	--	166.3	---	---	1.4	--	--
Decatur 2570 (2X)	25.8	26	--	149.8	130	---	2.9	6	--
*Funk G-4342 (2X)	25.8	--	--	159.5	---	---	3.0	--	--
Stauffer Seeds S5602 (2X)	25.9	26	--	136.1	122	---	6.3	12	--
Rupp XR1639 (2X)	26.0	--	--	146.6	---	---	2.8	--	--
Jacques JX151 (2X)	26.2	--	--	144.9	---	---	3.5	--	--
Great Lakes GL-522 (2X)	26.2	25	--	150.1	134	---	1.4	8	--
*Great Lakes GL-552 (2X)	26.3	27	25	165.7	140	140	2.9	9	11
*Paymaster 4660 (2X)	26.3	--	--	163.2	---	---	3.5	--	--
*DeKalb XL-32A (2X)	26.3	26	24	157.0	135	134	10.7	13	10
Rupp XR1620 (2X)	26.4	--	--	143.2	---	---	2.9	--	--
*Custom CFS 1450 (2X)	26.4	27	25	164.7	138	138	2.8	9	7
DeKalb XL-55A (2X)	26.4	26	25	151.3	135	138	12.2	11	11
DeKalb EX-2929 (2X)	26.5	--	--	146.6	---	---	11.1	--	--
Andersons SSM (2X)	26.6	26	24	151.8	131	129	7.1	13	13
Payco SX788 (2X)	26.6	--	--	133.8	---	---	5.7	--	--
*DeKalb EX-4040 (2X)	26.7	--	--	156.1	---	---	5.1	--	--
Pride 5511 (2X)	26.7	26	--	146.9	132	---	2.9	5	--
*O's Gold 1111 (2X)	26.8	--	--	164.8	---	---	0.7	--	--
Payco SX844 (2X)	26.8	--	--	150.6	---	---	5.7	--	--
Custom CFS E96002 (2X)	26.8	--	--	151.0	---	---	0.7	--	--
Rupp XR1690 (2X)	26.9	27	--	141.3	117	---	3.5	12	--

(continued)

Table 8 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Stauffer Seeds S5260 (2X)	27.0	--	--	146.5	---	---	3.5	--	--
*Dairyland DX1007 (2X)	27.4	--	--	160.0	---	---	0.7	--	--
Migro M-2018X (2X)	27.6	27	25	152.7	140	137	3.6	6	7
*O's Gold 6882 (2X)	28.3	--	--	156.0	---	---	0.7	--	--
*P.A.G. SX397 (2X)	28.8	--	--	157.5	---	---	4.3	--	--
*Payco SX860 (2X)	28.9	--	--	158.2	---	---	2.8	--	--
Rupp XR1780 (2X)	29.0	30	--	141.4	118	---	2.9	5	--
*Dairyland DX1105 (2X)	29.0	--	--	161.3	---	---	5.0	--	--
Average	24.8	25	23	141.9	127	126	6.8	10	10
Range	21.7 to 29.0	22 to 30	21 to 25	117.7 to 166.3	102 to 143	99 to 142	0.7 to 24.5	3 to 22	3 to 17
Least Significant Difference	1.5	1.0	0.8	13.8	8	5	--	--	--
*Significantly better than average yield in 1981.									
	1982	1981	1980						
Planted	May 17	May 22	May 17						
Harvested	November 4	November 5	November 13						
Soil Type	Gilford and Sebewa loam	Gilford and Sebewa loam	Gilford and Sebewa loam						
Previous Crop	Corn	Corn	Corn						
Population	21,400	20,900	21,000						
Rows	30"	30"	30"						
Fertilizer	110-41-41	109-34-34	109-34-34						
Soil Test: pH	6.2	6.1	6.3						
P	67 (medium high)	180 (very high)	122 (very high)						
K	171 (medium)	460 (very high)	267 (very high)						

Farm Cooperator: Gerald Geurink, Allendale

County Extension Director: Lawrence Stebbins, Grand Haven

Table 9

SOUTH CENTRAL MICHIGAN
Ingham County Trial - Grain
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 2

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Northrup King PX14 (2X)	19.2	--	--	111.0	---	---	0.0	--	--
DeKalb XL-14AA (2X)	20.4	--	--	120.8	---	---	0.7	--	--
Stauffer Seeds S3242 (2X)	20.6	--	--	114.3	---	---	0.0	--	--
Northrup King PX9144 (2X)	20.7	--	--	114.7	---	---	0.9	--	--
Garno S-90 (2X)	20.7	23	24	145.9	128	127	0.7	14	9
Farm Bureau FBS 355 (2X)	21.0	--	--	146.9	---	---	0.7	--	--
DeKalb T950 (2X)	21.1	24	--	125.8	126	---	0.0	2	--
Migro HP-266 (2X)	21.3	--	--	141.9	---	---	0.0	--	--
Great Lakes GL-422 (2X)	21.5	23	25	150.1	132	131	0.0	14	10
Stauffer Seeds S3306 (2X)	21.6	--	--	118.0	---	---	0.0	--	--
Jacques JX97 (2X)	21.6	--	--	121.5	---	---	0.0	--	--
Andersons SSA (2X)	21.6	23	24	119.3	107	108	1.4	7	5
Hyland HL-2454 (2X)	21.8	23	--	145.6	130	---	0.0	7	--
Funk G-4256 (3X)	21.8	25	26	125.4	123	120	1.4	2	2
Stauffer Seeds S4402 (2X)	21.9	--	--	134.0	---	---	0.0	--	--
Payco SX599 (2X)	22.0	--	--	112.2	---	---	0.0	--	--
Voris V2331 (2X)	22.1	24	--	137.2	141	---	0.7	2	--
Garno S-94E (2X)	22.2	24	--	119.3	122	---	1.4	5	--
Renk RK18 (2X)	22.2	24	26	132.3	124	130	3.5	5	3
Cargill 834 (2X)	22.2	24	--	124.8	115	---	0.8	16	--
Northrup King PX9288 (2X)	22.3	--	--	132.4	---	---	2.1	--	--
Pioneer 3901 (2X)	22.3	24	25	142.5	139	136	0.7	3	2
Pioneer 3906 (2X)	22.4	--	--	140.3	---	---	1.4	--	--
P.A.G. SX181 (2X)	22.5	24	25	127.1	120	119	0.7	5	3
Pioneer 3780 (2X)	22.5	26	27	143.2	141	143	1.4	5	3
DeKalb EX-1615 (2X)	22.6	25	--	130.9	128	---	1.4	3	--
Payco SX620 (2X)	22.6	--	--	140.9	---	---	2.1	--	--
Kaltenberg KX61 (2X)	22.7	26	27	133.4	149	154	0.7	2	2
Great Lakes GL-466 (2X)	22.7	--	--	152.6	---	---	0.0	--	--
Great Lakes GL-516 (2X)	22.8	--	--	142.8	---	---	1.4	--	--

(continued)

Table 9 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
DeKalb EX-2120 (2X)	22.9	--	--	154.3	---	---	0.7	--	--
Super Crost 2350 (2X)	22.9	26	27	132.8	146	144	0.7	1	1
Golden Harvest XS-679 (2X)	22.9	--	--	121.7	---	---	0.0	--	--
Eastland 248 (MSX)	23.0	--	--	143.5	---	---	0.0	--	--
Golden Harvest H-2440 (2X)	23.0	26	--	135.9	149	---	0.7	2	--
Pioneer 3744 (2X)	23.0	25	--	154.2	153	---	0.0	4	--
Lynks LX4075 (2X)	23.1	26	--	137.6	133	---	1.4	10	--
Lowe LSX117 (2X)	23.1	26	--	133.8	131	---	0.0	4	--
Super Crost 1940 (2X)	23.2	--	--	132.2	---	---	1.4	--	--
Pioneer 3747 (2X)	23.2	--	--	150.6	---	---	0.0	--	--
*Pioneer 3707 (2X)	23.2	--	--	159.5	---	---	0.0	--	--
Great Lakes GL-455 (2X)	23.3	--	--	143.3	---	---	0.0	--	--
Jacques JX151 (2X)	23.4	--	--	129.3	---	---	1.4	--	--
Super Crost 2396 (2X)	23.4	27	28	140.9	130	133	0.0	4	3
Golden Harvest H-2300 (MSX)	23.5	--	--	127.5	---	---	0.0	--	--
Funk G-4315 (MSX)	23.6	27	28	142.3	142	140	2.1	4	3
Asgrow RK511 (2X)	23.7	--	--	138.0	---	---	0.0	--	--
Dairyland DX1003 (2X)	23.7	26	28	130.3	126	125	0.7	13	9
DeKalb XL-25A (2X)	23.8	--	--	132.0	---	---	0.0	--	--
Migro HP-360 (2X)	23.8	28	--	141.9	144	---	1.4	2	--
Funk G-4224 (MSX)	23.8	27	27	127.0	124	128	1.4	5	3
Voris Exp. 0064 (2X)	23.9	--	--	141.1	---	---	0.0	--	--
Pride 3332 (2X)	23.9	--	--	125.1	---	---	2.9	--	--
McKenzie 980 (2X)	23.9	--	--	126.7	---	---	0.0	--	--
Payco SX788 (2X)	23.9	--	--	134.5	---	---	0.7	--	--
Pride 4461 (2X)	24.0	--	--	143.4	---	---	0.0	--	--
Paymaster 2990 (2X)	24.0	26	28	147.3	147	147	1.4	1	1
Lynks 4100 (2X)	24.1	27	--	123.1	122	---	1.4	4	--
Cargill 862 (2X)	24.2	26	--	148.9	130	---	0.7	8	--
DeKalb T1000 (2X)	24.2	28	--	144.4	139	---	0.7	2	--
DeKalb EX-1213 (2X)	24.3	--	--	134.5	---	---	0.0	--	--
O's Gold 6880 (2X)	24.4	28	--	137.4	144	---	1.4	2	--
Funk G-4342 (2X)	24.4	--	--	148.2	---	---	2.1	--	--
Hyland HL-2727 (2X)	24.4	--	--	144.6	---	---	0.0	--	--
Great Lakes GL-477 (2X)	24.4	26	27	151.5	146	156	2.9	3	2
Dairyland DX1006 (2X)	24.5	--	--	141.1	---	---	1.5	--	--
*Stauffer Seeds S6389 (2X)	24.6	28	--	161.3	155	---	0.0	3	--
Voris V2411 (2X)	24.6	--	--	133.2	---	---	0.0	--	--
Northrup King PX9415 (2X)	24.6	--	--	128.5	---	---	0.7	--	--
Garno S-98X (2X)	24.6	--	--	144.4	---	---	1.4	--	--
Wolverine W168 (2X)	24.7	--	--	134.7	---	---	0.0	--	--
*Northrup King PX37 (2X)	24.8	27	28	157.4	151	154	0.0	2	1
*Garno S-100 (2X)	24.9	28	29	157.9	150	150	0.0	3	3
*Pride 5525 (2X)	24.9	27	28	160.3	135	147	1.4	10	7
Stauffer Seeds 606WX (2X)	25.0	27	28	144.9	146	147	0.0	7	5
Cargill 872 (2X)	25.0	--	--	140.8	---	---	0.7	--	--
Migro HP-401 (2X)	25.2	28	--	146.6	153	---	1.4	4	--
Northrup King PX39 (2X)	25.2	27	28	153.9	162	166	0.0	6	4
Lowe LSX222 (2X)	25.2	28	29	134.6	122	139	0.0	11	7
Stauffer Seeds S5602 (2X)	25.2	27	--	143.2	129	---	0.7	3	--
Dairyland DX1008 (2X)	25.3	26	28	154.4	146	143	0.7	4	3
Gries GSF X500 (2X)	25.3	--	--	141.9	---	---	0.0	--	--
Renk RK24 (2X)	25.4	27	--	127.7	129	---	1.4	3	--
Kaltenberg KX58 (2X)	25.4	27	29	152.1	156	162	0.7	2	2
Wolverine W174A (2X)	25.5	28	29	139.4	137	140	1.4	2	1
Dairyland DX1105 (2X)	25.5	--	--	134.4	---	---	0.7	--	--
*DeKalb XL-55A (2X)	25.5	28	29	172.4	164	163	0.0	1	0
Gries GSF X600 (2X)	25.6	--	--	135.2	---	---	0.0	--	--
*Kaltenberg KX68 (2X)	25.6	28	29	161.6	139	145	0.7	1	1
*Pro-Seed HL-2725 (2X)	25.6	--	--	156.8	---	---	0.7	--	--
*Dairyland DX1007 (2X)	25.7	28	--	157.4	142	---	0.0	1	--
*Stauffer S5260 (2X)	25.7	29	--	157.6	163	---	0.7	0	--
*DeKalb EX-2929 (2X)	25.8	--	--	163.4	---	---	0.0	--	--
*Renk RK66 (2X)	25.8	28	29	160.8	145	144	0.0	8	5
Andersons SSM (2X)	25.9	29	29	154.5	147	154	0.7	3	2
Hyland HL-2440 (2X)	25.9	--	--	147.6	---	---	0.0	--	--
Lynks LX4225 (2X)	26.0	--	--	138.0	---	---	2.1	--	--
*Farmers FCC224A (2X)	26.0	28	--	171.0	156	---	0.0	2	--
Funk G-4323 (MSX)	26.1	28	29	150.5	150	154	0.7	0	0
Lynks LX4210 (2X)	26.1	29	--	149.7	155	---	2.1	3	--

(continued)

Table 9 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
*Paymaster 4660 (2X)	26.2	--	--	158.5	---	---	0.0	--	--
Great Lakes GL-522 (2X)	26.2	28	--	152.4	159	---	0.7	2	--
*Hyland HL-2784 (2X)	26.3	--	--	156.7	---	---	0.0	--	--
*Garno S-102 (2X)	26.3	--	--	165.3	---	---	0.7	--	--
Super Crost 2410 (2X)	26.4	28	--	147.3	149	---	2.1	1	--
Warwick T1044 (2X)	26.4	--	--	145.4	---	---	0.0	--	--
*Payco SX844 (2X)	26.6	30	31	156.4	145	152	0.0	4	3
*Great Lakes GL-5922 (2X)	26.6	29	29	166.4	164	167	0.0	3	2
*Stauffer Seeds S5650 (2X)	26.7	--	--	167.3	---	---	0.0	--	--
Lowe LSX237 (2X)	27.2	30	--	134.8	132	---	0.7	1	--
Lowe LSX217 (2X)	27.4	29	30	130.4	125	129	0.0	3	2
O's Gold 1170A (2X)	27.4	--	--	153.8	---	---	2.1	--	--
*O's Gold 6882 (2X)	27.6	--	--	161.5	---	---	0.0	--	--
*P.A.G. SX397 (2X)	27.7	30	--	167.3	143	---	1.4	15	--
DeKalb T1069 (2X)	27.8	--	--	147.2	---	---	0.0	--	--
*Dairyland DX1110 (2X)	27.8	--	--	157.0	---	---	0.0	--	--
*Payco SX860 (2X)	27.8	--	--	173.3	---	---	0.0	--	--
*DeKalb EX-4040 (2X)	28.3	--	--	157.7	---	---	2.1	--	--
*Pioneer 3541 (2X)	28.9	31	31	164.2	151	157	0.7	1	1
Renk RK75 (2X)	29.0	--	--	144.8	---	---	1.4	--	--
Golden Harvest H-2448 (2X)	29.0	30	31	133.1	138	144	0.0	5	4
Voris V2491 (2X)	29.1	31	--	154.6	158	---	0.0	1	--
*Golden Harvest H-2500 (2X)	29.9	32	32	163.7	146	150	0.7	3	2
*Renk RK77 (2X)	30.2	33	33	162.9	162	162	0.7	2	1
Average	24.5	27	28	142.8	140	143	0.7	4	3
Range	19.2 to 30.2	23 to 33	24 to 33	111.0 to 173.3	107 to 164	108 to 167	0.0 to 3.5	0 to 16	0 to 10
Least significant difference	1.5	1.0	0.7	13.5	9	6	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	April 28	May 1	May 6
Harvested	October 14	October 8	October 6
Soil Type	Capac Loam	Capac Loam	Capac Loam
Previous Crop	Corn	Corn	Corn
Population	21,400	21,000	21,700
Rows	36"	36"	36"
Fertilizer	170-60-60	165-50-50	150-50-50
Soil Test: pH	6.3	6.5	6.4
P	83 (high)	119 (very high)	120 (very high)
K	210 (medium high)	224 (high)	212 (medium high)

Farm Cooperator: Michigan State University, East Lansing

County Extension Director: Marvin Preston, Mason

Table 10

SOUTH CENTRAL MICHIGAN
Ingham County Trial - Silage
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 2

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre			Dry Weight		
	2	3		2	3		2	3	
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Northrup King PX9144 (2X)	49.3	---	---	15.6	---	---	7.7	---	---
Stauffer Seeds S3242 (2X)	48.9	---	---	14.5	---	---	7.1	---	---
Great Lakes GL-422 (2X)	48.1	45.9	41.4	16.2	15.5	16.5	7.7	7.0	6.6
Super Crost 1940 (2X)	47.7	---	---	15.7	---	---	7.5	---	---
Northrup King PX14 (2X)	46.8	---	---	16.2	---	---	7.6	---	---
Payco SX599 (2X)	46.8	---	---	16.0	---	---	7.5	---	---
Pride 3332 (2X)	46.7	---	---	17.9	---	---	8.3	---	---
Voris V2331 (2X)	46.5	45.3	---	16.2	14.7	---	7.5	6.6	---
Migro HP266 (2X)	45.9	---	---	18.3	---	---	8.2	---	---
Payco SX620 (2X)	45.3	---	---	18.8	---	---	8.5	---	---
Wolverine W168 (2X)	44.4	---	---	18.6	---	---	8.3	---	---
Garno S-94E (2X)	43.5	43.3	---	19.1	16.4	---	8.3	7.1	---
Golden Harvest SX-679 (2X)	42.5	---	---	19.5	---	---	8.3	---	---
Andersons SSA (2X)	42.5	41.2	40.1	18.8	15.8	15.0	8.0	6.6	6.1
Garno S-90 (2X)	42.3	43.6	39.9	18.9	16.1	16.5	7.9	6.9	6.5

(continued)

Table 10 (continued)

Hybrid (Brand-Variety)	Tons Per Acre								
	% Dry Matter			Green Weight			Dry Weight		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Stauffer Seeds S4402 (2X)	41.6	---	---	20.8	---	---	8.6	---	---
Dairyland DX1006 (2X)	41.5	---	---	20.4	---	---	8.5	---	---
Renk RK18 (2X)	41.3	42.4	38.9	20.0	17.1	17.5	8.3	7.2	6.8
Pioneer 3901 (2X)	41.2	41.3	38.7	21.1	17.8	17.4	8.6	7.3	6.7
Super Crost 2410 (2X)	40.5	39.6	---	18.6	17.8	---	7.5	7.0	---
Jacques JX97 (2X)	40.4	---	---	19.7	---	---	7.8	---	---
Funk G-4224 (MSX)	40.0	38.1	37.0	19.1	17.1	17.9	7.6	6.5	6.6
Cargill 834 (2X)	39.9	44.1	---	19.0	15.8	---	7.5	6.8	---
Hyland HL-2454 (2X)	39.8	42.7	---	18.2	16.2	---	7.2	6.8	---
Dairyland DX1003 (2X)	39.8	42.0	39.2	17.2	16.1	17.1	6.8	6.7	6.6
P.A.G. SX181 (2X)	39.6	41.6	39.0	18.4	16.1	16.7	7.3	6.7	6.5
Northrup King PX9415 (2X)	39.3	---	---	22.5	---	---	8.8	---	---
DeKalb EX-1213 (2X)	39.2	41.4	---	18.4	14.9	---	7.2	6.1	---
Northrup King PX9288 (2X)	39.2	---	---	18.2	---	---	7.1	---	---
Lynks LX4075 (2X)	39.2	40.0	---	21.2	17.8	---	8.3	7.1	---
Pioneer 3906 (2X)	39.1	---	---	17.5	---	---	6.9	---	---
Funk G-4256 (3X)	39.1	37.8	35.3	18.3	16.9	17.4	7.1	6.4	6.1
Funk G4342 (2X)	38.9	---	---	22.3	---	---	8.6	---	---
Great Lakes GL-466 (2X)	38.9	---	---	20.8	---	---	8.1	---	---
Lynks LX4225 (2X)	38.8	---	---	20.8	---	---	8.1	---	---
McKenzie 980 (2X)	38.8	---	---	20.6	---	---	8.0	---	---
Pioneer 3744 (2X)	38.6	---	---	21.3	---	---	8.2	---	---
Pioneer 3747 (2X)	38.5	38.8	---	21.1	18.4	---	8.1	7.1	---
Renk RK24 (2X)	38.4	39.7	---	20.0	17.6	---	7.7	7.0	---
DeKalb XL-14AA (2X)	38.4	---	---	18.0	---	---	6.9	---	---
Payco SX860 (2X)	38.3	---	---	22.5	---	---	8.6	---	---
Hyland HL-2727 (2X)	38.3	---	---	20.6	---	---	7.9	---	---
Voris V2411 (2X)	38.3	---	---	20.6	---	---	7.9	---	---
Paymaster 4460 (2X)	38.3	---	---	18.9	---	---	7.2	---	---
Pride 4461 (2X)	38.2	---	---	22.0	---	---	8.4	---	---
Super Crost 2350 (2X)	38.1	37.9	35.8	20.7	18.3	18.7	7.8	6.9	6.7
Golden Harvest H-2300 (MSX)	38.1	---	---	19.7	---	---	7.5	---	---
Farm Bureau FBS 355 (2X)	38.0	---	---	20.8	---	---	7.9	---	---
Stauffer Seeds S3306(2X)	37.9	---	---	18.4	---	---	6.9	---	---
DeKalb XL-25A (2X)	37.9	---	---	21.8	---	---	8.2	---	---
DeKalb T950 (2X)	37.9	40.6	---	20.4	16.9	---	7.7	6.7	---
Stauffer Seeds S5602 (2X)	37.8	38.5	---	20.0	17.4	---	7.6	6.7	---
Gries GSF X600 (2X)	37.8	---	---	20.8	---	---	7.9	---	---
Payco SX788 (2X)	37.7	---	---	19.6	---	---	7.3	---	---
Kaltenberg KX68 (2X)	37.6	35.3	33.3	21.5	18.8	19.9	8.1	6.7	6.6
Stauffer Seeds S6389 (2X)	37.6	37.8	---	24.0	21.2	---	9.0	8.0	---
Great Lakes GL-455 (2X)	37.6	---	---	20.6	---	---	7.7	---	---
Northrup King PX37 (2X)	37.4	38.9	36.5	22.4	19.8	20.4	8.3	7.6	7.3
Hyland HL-2440 (2X)	37.4	---	---	17.7	---	---	6.6	---	---
Super Crost 2396 (2X)	37.4	35.8	33.5	20.7	18.7	19.3	7.7	6.7	6.5
Lowe LSX217 (2X)	37.2	39.7	36.2	17.3	15.3	16.1	6.4	6.0	5.7
Lynks LX4100 (2X)	37.0	39.2	---	23.5	17.9	---	8.5	6.8	---
Pioneer 3707 (2X)	36.9	---	---	23.7	---	---	8.7	---	---
Pioneer 3780 (2X)	36.8	36.4	34.8	20.1	18.1	18.3	7.4	6.6	6.3
Hyland HL-2784 (2X)	36.7	---	---	19.8	---	---	7.2	---	---
Eastland 248 (MSX)	36.5	---	---	22.7	---	---	8.1	---	---
Lowe LSX117 (2X)	36.3	38.7	---	19.4	18.0	---	7.0	6.9	---
Warwick T1044 (2X)	36.2	---	---	21.4	---	---	7.8	---	---
O's Gold 1170A (2X)	36.2	---	---	23.6	---	---	8.5	---	---
Kaltenberg KX61 (2X)	36.0	36.6	35.0	18.3	16.7	17.3	6.6	6.1	6.0
P.A.G. SX181 (2X)	35.9	---	---	20.6	---	---	7.3	---	---
Great Lakes GL-477 (2X)	35.9	---	---	25.3	---	---	9.1	---	---
O's Gold 6880 (2X)	35.8	---	---	22.6	---	---	8.1	---	---
Migro HP-360 (2X)	35.8	35.2	---	19.6	18.5	---	7.0	6.5	---
DeKalb EX-2120 (2X)	35.8	---	---	22.7	---	---	8.1	---	---
Golden Harvest H-2440 (2X)	35.7	36.2	---	20.8	18.1	---	7.4	6.4	---
Jacques JX 151 (2X)	35.7	---	---	20.1	---	---	7.2	---	---
Paymaster 2990 (2X)	35.6	---	---	20.6	---	---	7.3	---	---
Pride 5525 (2X)	35.6	36.5	34.0	23.1	21.1	22.7	8.2	7.7	7.6
Farmers FCC 224A (2X)	35.5	35.1	---	26.1	23.2	---	9.3	8.2	---
Wolverine W174A (2X)	35.4	34.2	32.6	21.8	21.3	21.7	7.7	7.3	7.0
Lynks LX4210 (2X)	35.3	35.6	---	19.6	18.0	---	6.9	6.4	---
Funk G-4323 (MSX)	35.3	35.5	33.1	23.1	20.2	21.6	8.2	7.2	7.1
Dairyland DX1110 (2X)	35.3	---	---	21.1	---	---	7.8	---	---
Garno S-98X (2X)	35.3	---	---	20.3	---	---	7.2	---	---
Northrup King PX39 (2X)	35.3	33.3	32.1	23.8	20.0	21.0	8.4	6.7	6.8
Lowe LSX222 (2X)	35.3	34.9	33.1	22.4	19.3	19.8	7.9	6.7	6.6
DeKalb T1000 (2X)	35.1	35.6	---	19.5	17.7	---	6.8	6.3	---
Great Lakes GL-516 (2X)	35.1	---	---	21.8	---	---	7.6	---	---
Cargill 872 (2X)	35.0	---	---	20.6	---	---	7.1	---	---
Dairyland DX1007 (2X)	35.0	34.7	---	24.6	21.8	---	8.5	7.5	---
Stauffer Seeds 606WX (2X)	35.0	35.8	34.1	19.8	19.3	20.8	6.9	6.9	7.0
Great Lakes GL-5922 (2X)	35.0	34.3	32.3	25.4	23.1	23.7	8.9	7.9	7.6
DeKalb EX-2929 (2X)	34.9	---	---	23.1	---	---	7.9	---	---
DeKalb EX-1615 (2X)	34.8	---	---	22.1	---	---	7.7	---	---
Anderson SSM (2X)	34.6	35.6	33.2	26.0	22.4	23.2	9.0	7.9	7.6
DeKalb T1069 (2X)	34.5	---	---	26.7	---	---	9.2	---	---
Pioneer 3541 (2X)	34.5	33.6	31.7	23.8	20.9	21.8	8.2	7.0	6.9
DeKalb XL-55A (2X)	34.5	33.3	32.1	23.6	22.6	23.1	8.5	7.5	7.4
Pro-Seed HL-2725 (2X)	34.3	---	---	24.9	---	---	8.5	---	---

(continued)

Table 10 (continued)

Hybrid (Brand-Variety)	Tons Per Acre								
	% Dry Matter			Green Weight			Dry Weight		
		2	3		2	3		2	3
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Voris Exp. 0064 (2X)	34.3	---	---	22.1	---	---	7.5	---	---
Funk G-4315 (MSX)	34.2	35.6	33.8	21.9	19.9	20.1	7.5	7.0	6.7
Dairyland DX1105 (2X)	34.1	---	---	22.9	---	---	7.8	---	---
Lowe LSX 237 (2X)	34.1	34.1	---	23.7	20.5	---	8.1	7.0	---
Garno S-102 (2X)	34.1	---	---	22.8	---	---	8.8	---	---
Payco SX844 (2X)	33.5	32.9	31.5	22.0	19.8	20.1	7.4	6.5	6.3
Kaltenberg KX58 (2X)	33.3	33.4	32.4	28.3	23.1	23.9	9.4	7.6	7.6
Asgrow RX511 (2X)	33.2	35.1	33.4	24.7	20.9	20.7	8.2	7.2	6.8
Garno S-100 (2X)	32.9	35.0	32.9	25.7	22.3	23.0	8.4	7.7	7.5
Gries GSF X500 (2X)	32.5	---	---	24.6	---	---	8.0	---	---
O's Gold 6882 (2X)	32.1	32.7	---	25.7	20.8	---	8.2	6.8	---
Renk RK75 (2X)	32.0	---	---	26.7	---	---	8.6	---	---
Voris V2491 (2X)	32.0	31.4	---	23.7	20.5	---	7.6	6.5	---
DeKalb Ex-4040 (2X)	32.0	---	---	28.8	---	---	9.5	---	---
Renk RK66 (2X)	31.9	33.0	31.5	25.5	22.4	23.1	8.1	7.3	7.2
Renk RK 77 (2X)	31.7	30.0	29.1	26.0	24.2	23.5	8.3	7.2	6.8
Stauffer Seeds S5260 (2X)	31.6	33.7	---	24.1	20.7	---	7.6	6.9	---
Dairyland DX1008 (2X)	31.4	35.5	33.4	24.8	21.1	20.5	7.7	7.3	6.7
Cargill 862 (2X)	31.4	32.7	---	24.3	19.7	---	7.7	6.4	---
Stauffer Seeds S5650 (2X)	31.4	---	---	27.7	---	---	8.6	---	---
P.A.G. SX397 (2X)	30.8	32.2	---	25.0	21.2	---	7.7	6.7	---
Golden Harvest H-2448 (2X)	30.6	31.4	31.1	25.0	22.8	23.0	7.7	7.1	7.1
Golden Harvest H-2500 (2X)	30.4	29.6	28.2	28.0	24.7	25.8	8.5	7.3	7.3
Migro HP-401 (2X)	29.2	30.6	---	23.1	20.8	---	6.8	6.4	---
Average	37.6	36.8	34.4	21.4	19.1	20.0	7.9	6.9	6.7
Range	29.2 to 49.2	29.6 to 45.9	28.2 to 41.4	14.5 to 29.8	14.7 to 24.7	15.0 to 25.8	6.4 to 9.5	6.0 to 8.2	5.7 to 7.6
Least Significant Difference	2.9	2.0	1.5	1.9	1.4	1.1	0.6	0.5	0.5

	1982	1981	1980
Planted	April 26	May 1	May 6
Harvested	September 8	September 10	September 8
Soil type	Capac loam	Capac loam	Capac loam
Previous crop	Corn	Corn	Corn
Population	23,100	21,100	21,500
Rows	36"	36"	36"
Fertilizer	170-60-60	165-50-50	150-50-50
Soil Test: pH	6.3	6.5	6.4
P	83 (high)	119 (very high)	120 (very high)
K	210 (high)	224 (high)	212 (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 - 1982, 1981, 1980

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Pride 1169 (2X)	21.2	--	--	131.5	----	----	0.0	--	--
P.A.G. SX111 (2X)	21.3	24	--	111.0	113	----	0.7	6	--
Northrup King PX9144 (2X)	21.4	--	--	127.8	----	----	1.4	--	--
Cargill 810 (2X)	23.3	24	--	114.8	118	----	2.2	2	--
Stanton SX1090 (2X)	24.0	--	--	118.6	----	----	1.4	--	--
Northrup King PX14 (2X)	24.0	--	--	113.7	----	----	0.7	--	--
Payco SX431 (2X)	24.2	--	--	139.5	----	----	4.3	--	--
Andersons SSA (2X)	24.4	26	24	139.6	127	126	2.1	1	1
Asgrow RX355 (2X)	24.5	--	--	128.2	----	----	2.1	--	--
Pioneer 3950 (MSX)	24.6	24	24	124.2	122	119	2.8	3	2
Payco SX599 (2X)	24.9	--	--	151.7	----	----	0.7	--	--
Stauffer Seeds S3242 (2X)	25.0	--	--	130.7	----	----	0.7	--	--
Warwick TX27 (3X)	25.2	25	24	138.4	123	120	2.1	1	1
Dairyland DX1088 (2X)	25.2	--	--	111.0	----	----	0.0	--	--
Funk G-4141A (2X)	25.9	26	25	131.3	124	122	0.7	1	1
Super Crost 1663 (3X)	26.0	--	--	136.2	----	----	10.2	--	--
*Pioneer 3901 (2X)	26.1	27	26	159.0	143	139	0.0	0	0
Pioneer 3906 (2X)	26.1	26	25	131.4	132	130	0.8	1	1
Dairyland DX1094 (2X)	26.2	--	--	135.8	----	----	0.0	--	--
Super Crost 1621 (2X)	26.5	--	--	139.9	----	----	0.0	--	--

Table 11 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Wolverine W126 (2X)	26.5	--	--	141.4	---	---	0.7	--	--
Garno S-85 (2X)	26.7	--	--	119.0	---	---	0.0	--	--
DeKalb XL-14AA (2X)	27.3	--	--	147.0	---	---	0.0	--	--
DeKalb XL-13 (2X)	27.3	27	25	134.9	130	124	0.0	0	0
P.A.G. SX181 (2X)	27.4	28	26	141.3	137	131	0.0	2	1
Hyland HL-2428 (2X)	27.4	27	26	146.3	132	132	2.9	2	2
*Migro HP-266 (2X)	27.4	--	--	164.9	---	---	0.7	--	--
Jacques JX97 (2X)	27.5	--	--	154.9	---	---	1.5	--	--
Northrup King PX9288 (2X)	27.5	--	--	140.9	---	---	0.7	--	--
*O's Gold 2321 (2X)	27.7	--	--	160.6	---	---	0.0	--	--
Funk G-4224 (MSX)	27.8	29	28	145.8	137	138	0.7	1	1
Kaltenberg KX55 (2X)	27.9	29	27	117.4	130	132	0.0	1	1
*P.A.G. SX177 (2X)	27.9	28	28	166.7	148	140	0.0	0	0
Cargill B34 (2X)	27.9	28	--	130.1	116	---	0.0	1	--
Migro HP-277 (2X)	28.2	30	--	140.5	135	---	0.0	0	--
*Super Crost 1940 (2X)	28.2	--	--	156.7	---	---	0.0	--	--
Wolverine W166 (2X)	28.2	29	28	123.7	127	131	0.0	0	0
*Custom CFS EW93003 (2X)	28.2	--	--	161.9	---	---	0.0	--	--
Funk Exp. 29306 (MSX)	28.3	--	--	138.9	---	---	0.0	--	--
Golden Harvest H-2300 (MSX)	28.4	--	--	144.4	---	---	0.0	--	--
Garno S-90 (2X)	28.5	28	26	141.4	131	132	1.6	1	1
Stauffer Seeds S3306 (2X)	28.6	28	--	136.0	126	---	2.2	3	--
*Dairyland DX1099 (2X)	28.6	28	--	169.1	154	---	0.7	0	--
Stauffer Seeds S4402 (2X)	28.7	29	--	132.0	129	---	0.7	0	--
Asgrow RX40 (2X)	28.9	29	27	120.9	117	118	1.4	1	1
DeKalb XL-25A (2X)	29.0	--	--	140.7	---	---	0.7	--	--
Dairyland DX1003 (2X)	29.0	30	--	135.6	132	---	0.0	0	--
Custom CFS 2004 (2X)	29.1	--	--	146.5	---	---	0.7	--	--
Hyland HL-2440 (2X)	29.2	--	--	138.1	---	---	0.0	--	--
Pride R319 (3X)	29.3	29	27	124.0	131	131	0.0	0	1
Voris V2381 (2X)	29.3	29	28	147.8	144	137	0.7	2	1
*Super Crost 1950 (2X)	29.3	30	28	161.6	139	135	0.7	2	1
DeKalb T950 (2X)	29.4	29	--	140.7	131	---	0.7	1	--
Great Lakes GL-456 (2X)	29.4	29	--	152.6	146	---	0.7	0	--
Leader SX475 (2X)	29.5	--	--	141.4	---	---	0.0	--	--
Stanton SX1095 (2X)	29.5	--	--	118.3	---	---	0.0	--	--
Renk RK18 (2X)	29.5	30	28	141.8	131	132	0.0	0	0
Custom CFS 4004 (2X)	29.5	--	--	125.7	---	---	0.0	--	--
Garno S-94E (2X)	29.8	30	--	127.6	128	---	1.6	1	--
*Super Crost 2396 (2X)	29.9	31	30	157.3	150	144	0.7	0	0
Dairyland DX1096 (2X)	29.9	28	--	139.3	125	---	0.7	7	--
Custom CFS W3610 (2X)	29.9	--	--	122.7	---	---	0.8	--	--
DeKalb XL-314 (3X)	30.0	30	--	130.2	133	---	0.0	1	--
Funk G-4256 (3X)	30.0	30	27	134.0	126	124	0.7	1	1
*DeKalb EX-1615 (2X)	30.1	--	--	157.2	---	---	4.2	--	--
*O's Gold 2330 (2X)	30.2	--	--	156.6	---	---	1.4	--	--
Hyland HL-2454 (2X)	30.3	29	--	144.5	130	---	0.0	0	--
*Great Lakes GL-466 (2X)	30.3	--	--	162.2	---	---	0.0	--	--
Voris V2331 (2X)	30.5	30	--	141.0	135	---	0.8	1	--
DeKalb T1069 (2X)	30.5	--	--	149.0	---	---	0.0	--	--
Asgrow RX511 (2X)	30.7	30	27	140.0	131	130	0.0	2	3
DeKalb EX-2120 (2X)	30.7	--	--	132.2	---	---	0.0	--	--
*Stanton SX10100 (2X)	30.9	--	--	162.3	---	---	0.0	--	--
*Funk G-4342 (2X)	30.9	--	--	157.5	---	---	0.0	--	--
Stauffer Seeds S3406 WX (2X)	31.0	--	--	149.4	---	---	0.0	--	--
Pioneer 3744 (2X)	31.0	30	--	144.1	135	---	0.0	0	--
Great Lakes GL-477 (2X)	31.0	31	29	153.1	144	148	2.5	1	1
*Renk RK24 (2X)	31.0	32	--	157.1	137	---	0.0	0	--
*Great Lakes GL-455 (2X)	31.2	--	--	141.9	---	---	0.7	--	--
DeKalb XL-18 (2X)	31.2	--	--	133.1	---	---	0.0	--	--
Payco SX620 (2X)	31.3	--	--	126.8	---	---	1.5	--	--
Jacques JX151 (2X)	31.3	--	--	151.4	---	---	0.7	--	--
*Super Crost 2410 (2X)	31.6	33	--	158.9	156	---	0.0	1	--
Kaltenberg KX54A (2X)	31.7	32	--	146.0	140	---	0.8	1	--
Hyland HL-2784 (2X)	31.8	--	--	151.1	---	---	0.7	--	--
Leader SX480A (2X)	31.9	--	--	133.6	---	---	0.0	--	--
Dairyland DX1006 (2X)	31.9	--	--	140.6	---	---	0.0	--	--
Stauffer Seeds S5602 (2X)	32.0	33	--	151.0	135	---	0.7	0	--
DeKalb T1000 (2X)	32.0	33	--	143.2	138	---	1.4	1	--
*Great Lakes GL-5922 (2X)	32.2	32	31	162.1	151	150	0.0	0	0

(continued)

Table 11 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Leader SX490 (2X)	32.3	--	--	141.6	---	---	0.0	--	--
Stauffer Seeds S5650 (2X)	32.3	--	--	149.8	---	---	0.0	--	--
Kaltenberg KX61 (2X)	32.3	--	--	127.6	---	---	0.0	--	--
Dairyland DX1007 (2X)	32.3	--	--	146.8	---	---	0.0	--	--
Great Lakes GL-516 (2X)	32.4	--	--	149.9	---	---	1.6	--	--
Anderssons SSM (2X)	32.5	33	31	147.8	137	132	0.0	1	1
*Cargill 862 (2X)	32.5	--	--	157.3	---	---	0.0	--	--
Payco SX788 (2X)	32.6	--	--	134.5	---	---	1.4	--	--
Pride 4461 (2X)	32.7	32	29	143.4	136	136	0.0	0	1
Paymaster 2990 (2X)	32.8	33	--	135.0	135	---	0.0	0	--
*Vorix V2411 (2X)	32.8	33	31	160.1	152	144	0.0	0	0
Stauffer Seeds S6389 (2X)	32.9	--	--	138.6	---	---	0.7	--	--
Stauffer Seeds S5260 (2X)	33.0	--	--	148.3	---	---	0.0	--	--
Warwick T1055 (MSX)	33.2	--	--	136.2	---	---	0.0	--	--
Vorix V2472 (2X)	33.2	33	--	137.6	145	---	0.0	1	--
Renk RK66 (2X)	33.3	33	32	147.0	150	144	1.4	1	0
Paymaster 4660 (2X)	33.4	--	--	138.7	---	---	0.0	--	--
Gries GSF X500 (2X)	33.4	--	--	146.3	---	---	0.0	--	--
Gries GSF X600 (2X)	33.5	--	--	144.6	---	---	0.0	--	--
Leader SX510 (2X)	33.6	--	--	140.1	---	---	0.0	--	--
*Hyland HL-2727 (2X)	33.9	--	--	160.2	---	---	0.7	--	--
Funk G-4323 (MSX)	34.0	34	--	145.4	146	---	0.7	1	--
O's Gold 1107 (2X)	34.4	34	--	141.9	147	---	0.7	1	--
Dairyland DX1105 (2X)	34.5	--	--	121.8	---	---	1.5	--	--
*Leader SX495 (2X)	34.6	--	--	157.0	---	---	0.0	--	--
Pro-Seed HL-2725 (2X)	34.6	--	--	143.3	---	---	0.7	--	--
Renk RK75 (2X)	36.3	--	--	135.2	---	---	1.5	--	--
*Golden Harvest H-2500 (2X)	36.4	36	34	163.2	153	140	0.7	0	0
Average	29.4	30	28	141.5	135	133	0.7	1	1
Range	21.2 to 36.4	24 to 36	24 to 34	111.0 to 169.1	113 to 156	118 to 150	0.0 to 10.2	0 to 7	0 to 3
Least significant difference	2.0	1.5	1.0	14.2	9	6	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	May 12	May 8	May 10
Harvested	October 27	November 4	November 1
Soil Type	Parkhill loam	Parkhill loam	Parkhill loam
Previous Crop	Corn	Corn	Corn
Population	20,700	21,200	21,400
Rows	30"	30"	30"
Fertilizer	204-75-166, manure	133-140-72	118-72-192
Soil Test: pH	6.8	6.9	7.5
P	70 (medium high)	119 (very high)	99 (high)
K	129 (low)	224 (high)	172 (medium)

Farm Cooperator: Ray Orchard, Applegate

County Extension Director: Rex Stieting, Sandusky

Table 12

NORTH CENTRAL MICHIGAN
Sanilac County Trial - Silage
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 3

Hybrid (Brand-Variety)	% Dry Matter		Tons Per Acre		Dry Weight	
	1982	yr.	1982	yr.	1982	yr.
P.A.G. SX111 (2X)	48.5	51.4	9.9	9.6	4.8	4.9
Warwick TX27 (3X)	45.7	47.6	10.1	9.1	4.6	4.3
Pride 1169 (2X)	43.4	---	14.4	---	6.3	---
Northrup King PX9144 (2X)	40.6	---	15.9	---	6.4	---
Hyland HL-2428 (2X)	39.9	38.8	16.5	14.3	6.6	5.6
Northrup King PX14 (2X)	39.3	---	16.6	---	6.5	---
Payco SK431 (2X)	38.2	---	11.2	---	4.3	---
Wolverine W126 (2X)	37.4	---	18.1	---	6.8	---
Pioneer 3950 (MSX)	37.0	44.2	17.3	12.6	6.4	5.2
Custom CFS 2004 (2X)	37.0	---	20.0	---	7.4	---

(continued)

Table 12 (continued)

Hybrid (Brand-Variety)	% Dry Matter		Tons Per Acre					
			Green Weight			Dry Weight		
	1982	yr.	1982	yr.	yr.	1982	yr.	yr.
DeKalb XL13 (2X)	36.9	35.7	38.1	16.3	14.2	15.0	6.0	5.1
DeKalb XL14AA (2X)	36.1	---	---	15.7	---	---	5.8	---
Garno S-90 (2X)	35.9	41.6	42.1	19.7	15.4	15.5	7.1	6.2
Dairyland DX1003 (2X)	35.8	35.8	---	19.1	16.4	---	6.8	5.8
Garno S-85 (2X)	35.8	---	---	17.7	---	---	6.3	---
Renk RK18 (2X)	35.7	36.5	36.6	14.3	13.1	14.6	5.1	4.7
Super Crost 1940 (2X)	35.6	---	---	20.5	---	---	7.3	---
Cargill 834 (2X)	35.4	39.7	---	18.5	14.2	---	6.6	5.5
P.A.G. SX181 (2X)	35.4	40.0	40.4	20.8	16.1	15.9	7.4	6.3
Funk G-4141A (MSX)	34.7	39.5	39.3	17.6	14.2	15.0	6.1	5.4
Super Crost 1950 (2X)	34.7	36.2	35.8	19.4	16.3	17.7	6.7	5.8
Super Crost 1663 (3X)	34.6	---	---	16.0	---	---	5.5	---
Jacques JX97 (2X)	34.4	---	---	17.9	---	---	6.1	---
Hyland HL-2454 (2X)	34.3	42.5	---	21.1	16.0	---	7.2	6.3
Stauffer Seeds S3242 (2X)	34.3	---	---	22.8	---	---	7.8	---
P.A.G. SX177 (2X)	34.3	34.7	34.9	24.0	18.8	17.8	8.2	6.5
Stauffer Seeds S3306 (2X)	34.3	42.7	---	22.1	15.7	---	7.6	6.2
Asgrow RX355 (2X)	34.2	---	---	23.1	---	---	7.9	---
Cargill 810 (2X)	34.2	43.1	---	17.5	13.6	---	6.0	5.5
Dairyland DX1094 (2X)	34.0	---	---	18.1	---	---	6.2	---
Migro HP-266 (2X)	33.9	---	---	18.4	---	---	6.1	---
Northrup King PX9288 (2X)	33.8	---	---	20.5	---	---	6.1	---
Stanton SX1095 (2X)	33.6	---	---	19.2	---	---	6.4	---
Golden Harvest H-2300 (MSX)	33.6	---	---	31.3	---	---	7.1	---
Voris V2381 (2X)	33.3	32.8	35.7	20.4	16.8	17.1	6.8	5.5
Jacques JX151 (2X)	33.2	---	---	19.2	---	---	6.4	---
Funk Exp. 29306 (MSX)	33.1	---	---	18.7	---	---	6.3	---
Pioneer 3901 (2X)	33.0	35.6	37.2	19.7	15.8	17.0	6.5	5.5
Migro HP-277 (2X)	33.0	37.1	---	20.8	17.7	---	6.9	6.5
Payco SX599 (2X)	32.9	---	---	17.5	---	---	5.8	---
Payco SX620 (2X)	32.9	---	---	18.8	---	---	6.2	---
Custom EW 93003 (2X)	32.7	---	---	19.5	---	---	6.4	---
Dairyland DX1099 (2X)	32.5	36.0	---	19.1	15.1	---	6.2	5.3
Stauffer Seeds 4402 (2X)	32.5	35.4	---	24.9	19.0	---	8.9	6.5
Great Lakes GL-466 (2X)	32.4	---	---	25.0	---	---	8.1	---
Stauffer Seeds S3406 WX (2X)	32.4	---	---	20.1	---	---	6.5	---
Super Crost 1621 (2X)	32.4	---	---	19.3	---	---	6.3	---
Funk G-4224 (MSX)	32.4	34.8	35.4	22.0	17.5	18.5	7.1	5.9
Dairyland DX1088 (2X)	32.4	---	---	17.9	---	---	5.8	---
Pride R319 (3X)	32.3	37.4	38.9	21.0	17.2	17.3	6.8	6.2
DeKalb EX-1615 (2X)	32.2	---	---	25.0	---	---	8.1	---
Super Crost 2396 (2X)	32.2	33.3	32.9	23.1	17.3	19.1	7.4	5.7
O's Gold 2321 (2X)	32.1	---	---	21.8	---	---	7.0	---
Andersons SSA (2X)	32.1	38.7	40.0	15.4	12.7	14.3	5.0	4.8
Leader SX475 (2X)	32.0	---	---	16.6	---	---	5.3	---
Asgrow RX40 (2X)	31.8	31.9	34.0	21.1	17.5	17.8	6.7	5.6
DeKalb EX-2120 (2X)	31.6	---	---	21.7	---	---	6.9	---
Stanton SX1090 (2X)	31.5	---	---	17.7	---	---	5.6	---
Hyland HL-2727 (2X)	31.4	---	---	21.9	---	---	6.9	---
Voris V2331 (2X)	31.4	34.2	---	19.5	15.3	---	6.2	5.1
DeKalb XL-314 (3X)	31.3	31.8	---	19.5	16.9	---	6.1	5.4
Great Lakes GL-477 (2X)	31.3	33.2	33.6	24.9	21.7	23.0	7.8	7.1
Wolverine W166 (2X)	31.3	36.5	36.7	19.2	16.5	17.1	6.9	6.3
Great Lakes GL-456 (2X)	31.2	31.9	---	24.9	20.8	---	7.7	6.6
Custom CFS 4004 (2X)	31.2	---	---	20.0	---	---	6.2	---
Funk G-4256 (3X)	31.1	33.4	34.2	20.3	16.2	16.6	6.3	5.3
Kaltenberg KX61 (2X)	31.0	---	---	20.5	---	---	6.4	---
Voris V2411 (2X)	30.9	31.5	32.7	19.1	19.2	20.5	5.9	6.1
Pioneer 3906 (2X)	30.9	37.5	37.4	19.3	15.6	15.8	6.0	5.6
Paymaster 2990 (2X)	30.9	31.8	---	23.1	20.2	---	7.1	6.4
Dairyland DX1096 (2X)	30.8	38.4	---	18.7	15.3	---	6.0	5.7
Great Lakes GL-455 (2X)	30.8	36.2	36.2	23.7	18.6	19.6	7.3	6.4
Kaltenberg KX54A (2X)	30.6	30.8	---	23.2	18.5	---	7.1	5.7
DeKalb T1000 (2X)	30.5	32.5	---	20.3	18.0	---	6.2	5.8
Funk G-4342 (2X)	30.4	---	---	21.5	---	---	6.6	---
Warwick T1055 (MSX)	30.1	---	---	24.1	---	---	7.3	---
Stanton SX10100 (2X)	30.1	---	---	25.4	---	---	7.6	---
Kaltenberg KX55 (2X)	30.1	34.6	35.2	23.6	18.0	17.8	7.1	6.0
O's Gold 2330 (2X)	29.9	33.8	---	20.6	17.1	---	6.1	5.6
Andersons SSM (2X)	29.9	30.8	31.4	26.8	23.9	25.0	8.0	7.2
Garno S-94E (2X)	29.8	32.1	---	22.1	17.3	---	6.6	5.4
Leader SX495 (2X)	29.8	---	---	20.8	---	---	6.2	---
DeKalb XL-18 (2X)	29.8	---	---	20.1	---	---	6.0	---
Asgrow RX511 (2X)	29.7	32.2	33.3	21.5	18.9	19.8	6.4	6.1
DeKalb T950 (2X)	29.7	34.1	---	18.4	14.7	---	5.6	4.9
Stauffer Seeds S5602 (2X)	29.7	32.0	---	20.4	18.5	---	6.0	5.9
Renk RK 24 (2X)	29.7	32.7	---	18.7	18.5	---	5.5	6.0
O's Gold 1107 (2X)	29.7	31.6	---	23.2	21.8	---	6.9	6.8
Dairyland DX1006 (2X)	29.5	---	---	19.2	---	---	5.7	---
Pride 4461 (2X)	29.5	31.5	31.2	24.6	22.0	21.1	7.2	6.8
Leader SX 510 (2X)	29.0	---	---	27.9	---	---	8.1	---
Leader SX490 (2X)	29.0	---	---	22.0	---	---	6.4	---
Hyland HL-2784 (2X)	29.0	---	---	24.7	---	---	7.2	---
Stauffer Seeds S6389 (2X)	29.0	---	---	25.7	---	---	7.4	---
Great Lakes GL-5922 (2X)	29.0	30.0	30.7	26.9	22.9	24.3	7.8	6.8

(continued)

Table 12 (continued)

Hybrid (Brand-Variety)	% Dry Matter		Tons Per Acre					
			Green Weight			Dry Weight		
	1982	yr.	1982	yr.	yr.	1982	yr.	yr.
Payco SX788 (2X)	28.5	---	---	22.8	---	---	6.6	---
Paymaster 4660 (2X)	28.4	---	---	25.1	---	---	7.2	---
Renk RK56 (2X)	28.4	28.3	29.6	25.6	22.0	21.7	7.2	6.2
Great Lakes GL-516 (2X)	28.3	---	---	24.0	---	---	6.8	---
Pioneer 3744 (2X)	28.3	32.1	---	22.6	17.1	---	6.4	5.3
Stauffer Seeds S5650 (2X)	28.0	---	---	25.3	---	---	7.1	---
Pro-Seed HL-2725 (2X)	28.0	---	---	26.4	---	---	7.4	---
Dairyland DX1007 (2X)	27.8	---	---	23.4	---	---	6.5	---
Super Crost 2410 (2X)	27.7	30.3	---	21.7	19.8	---	6.0	5.9
Cargill 862 (2x)	27.5	---	---	27.0	---	---	7.4	---
Custom W3610 (2X)	27.3	---	---	19.5	---	---	5.3	---
Hyland HL-2440 (2X)	27.3	---	---	19.8	---	---	5.4	---
Renk RK75 (2X)	26.7	---	---	22.5	---	---	6.0	---
Golden Harvest H-2500 (2X)	26.5	25.6	26.5	28.8	25.0	26.8	7.6	6.4
Dairyland DX1105 (2X)	26.4	---	---	22.5	---	---	6.0	---
Funk G-4323 (MSX)	25.9	27.8	---	23.6	21.0	---	6.1	5.8
DeKalb XL-25A (2X)	25.8	---	---	24.1	---	---	6.3	---
DeKalb T1069 (2X)	25.6	---	---	24.6	---	---	6.2	---
Gries GSF X500 (2X)	25.6	---	---	25.0	---	---	6.4	---
Gries GSF X600 (2X)	25.3	---	---	25.7	---	---	6.5	---
Stauffer Seeds S5260 (2X)	25.2	---	---	20.6	---	---	5.2	---
Voris V2472 (2X)	25.0	26.6	---	26.5	21.7	---	6.6	5.7
Leader SX480A (2X)	24.8	---	---	21.4	---	---	5.3	---
Average	31.7	35.1	35.9	20.6	17.3	17.9	6.5	5.8
Range	24.8	25.6	26.5	9.9	9.1	11.2	4.3	4.3
	to	to	to	to	to	to	to	to
	48.5	51.4	44.4	28.8	25.0	26.8	8.2	7.2
Least Significant Difference	3.0	2.0	1.5	1.9	1.4	1.0	0.9	0.5

	1982	1981	1980
Planted	May 1	May 6	May 10
Harvested	September 15	September 22	September 19
Soil type	Linwood loam and Tawas muck	Linwood loam and Tawas muck	Linwood loam and Tawas muck
Previous crop	Corn	Corn	Corn
Population	22,000	20,600	21,300
Rows	30"	30"	30"
Fertilizer	213-161-120	241-207-180	204-138-80
Soil test: pH	7.6	7.3	7.1
P	233 (very high)	117 (very high)	129 (very high)
K	344 (very high)	328 (very high)	364 (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 - 1982, 1981, 1980

Zone 3

Hybrid (Brand-Variety)	% Moisture		Bushels Per Acre			% Stalk Lodging		
	1982	yr.	1982	yr.	yr.	1982	yr.	yr.
Northrup King PX9144 (2X)	18.0	---	---	124.9	---	---	5.1	---
Payco SX599 (2X)	18.2	---	---	127.0	---	---	0.0	---
Lynks LX3940 (2X)	18.2	---	---	135.6	---	---	3.0	---
Stanton SX1090 (2X)	18.2	---	---	135.4	---	---	1.5	---
Super Crost 1621 (2X)	18.3	---	---	141.3	---	---	0.7	---
Gold Tag GT1064 (MSX)	18.4	---	---	147.4	---	---	2.1	---
Asgrow RX40 (2X)	18.6	24	23	142.1	129	133	7.1	12
Hyland HL-2428 (2X)	18.6	23	---	145.2	138	---	8.1	7
Lynks LX4075 (2X)	18.7	24	---	139.1	145	---	7.7	6
Migro HP-266 (2X)	18.9	---	---	143.8	---	---	5.9	---
Dairyland DX1003 (2X)	19.0	25	24	133.1	151	149	6.0	5
Payco SX431 (2X)	19.0	---	---	141.4	---	---	5.9	---
Stauffer Seeds S3242 (2X)	19.1	22	---	137.3	141	---	0.7	4
Sohigro Exp. 121 (2X)	19.1	---	---	143.6	---	---	2.7	---
P.A.G. SX177 (2X)	19.1	24	---	129.9	130	---	3.5	5
Voris V2381 (2X)	19.2	24	---	142.3	148	---	1.5	4
Super Crost 1940 (2X)	19.2	---	---	129.0	---	---	5.8	---
Stauffer Seeds S3306 (2X)	19.2	23	---	148.2	148	---	2.1	4
Great Lakes GL-466 (2X)	19.3	25	---	152.9	151	---	5.2	5
DeKalb EX-1615 (2X)	19.3	---	---	138.6	---	---	2.9	---

(continued)

Table 13 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Pioneer 3901 (2X)	19.4	24	23	152.4	158	153	3.6	3	2
Jacques JX97 (2X)	19.4	--	--	136.6	---	---	1.5	--	--
Garno S-94E (2X)	19.4	--	--	146.3	---	---	1.4	--	--
Golden Harvest H-2300 (MSX)	19.4	--	--	134.3	---	---	7.1	--	--
Andersons SSA (2X)	19.5	23	22	138.4	137	135	5.2	6	5
Dairyland DX1094 (2X)	19.5	--	--	144.5	---	---	0.0	--	--
Asgrow RX511 (2X)	19.6	24	24	159.9	159	154	5.1	4	4
*Great Lakes GL-455 (2X)	19.6	23	24	161.8	153	153	1.4	5	3
Stanton SX1095 (2X)	19.8	--	--	149.8	---	---	3.6	--	--
Garno S-90 (2X)	19.8	23	23	152.8	148	142	1.4	2	2
Pioneer 3906 (2X)	19.8	23	--	147.1	135	---	2.2	3	--
Gold Tag GT1822 (2X)	19.9	--	--	146.4	---	---	3.7	--	--
DeKalb EX-2120 (2X)	20.0	--	--	131.7	---	---	6.5	--	--
Funk G-4224 (MSX)	20.0	25	25	134.4	135	132	0.7	2	1
Stauffer Seeds S4402 (2X)	20.1	26	--	129.5	144	---	2.1	3	--
Gold Tag GT1090 (MSX)	20.1	--	--	144.6	---	---	2.2	--	--
DeKalb XL-25A (2X)	20.1	--	--	157.0	---	---	1.5	--	--
Pioneer 3780 (2X)	20.2	26	25	157.8	161	156	6.3	7	5
DeKalb T950 (2X)	20.2	26	--	157.1	153	---	7.1	5	--
Funk G-4256 (3X)	20.3	26	24	126.6	137	126	4.1	2	2
Kaltenberg KX55 (2X)	20.3	26	--	142.1	147	---	1.5	6	--
Dairyland DX1096 (2X)	20.3	23	24	145.2	149	146	2.1	3	2
Pride 4461 (2X)	20.4	27	--	153.5	152	---	3.5	4	--
Northrup King PX9288 (2X)	20.4	--	--	145.4	---	---	3.5	--	--
Hyland HL-2454 (2X)	20.5	24	--	152.7	147	---	5.5	4	--
P.A.G. SX181 (2X)	20.6	24	25	154.9	153	147	4.3	7	5
Great Lakes GL-477 (2X)	20.6	26	26	151.3	156	155	2.1	4	4
Lynds LX4040 (2X)	20.7	23	--	159.8	145	---	0.0	3	--
Funk G-4315 (MSX)	20.9	--	--	146.9	---	---	2.8	--	--
Migro HP-277 (2X)	20.9	25	--	159.9	151	---	0.7	1	--
Super Crost 2410 (2X)	21.0	--	--	154.6	---	---	3.5	--	--
Pride R319 (3X)	21.1	25	24	143.3	146	146	1.5	4	3
Migro HP-360 (2X)	21.1	27	--	141.0	151	---	0.7	1	--
Super Crost 2350 (2X)	21.1	--	--	158.4	---	---	2.1	--	--
Voris V2411 (2X)	21.3	27	27	148.3	157	154	1.5	2	1
DeKalb XL32A (2X)	21.3	27	--	151.6	158	---	2.9	2	--
*Dairyland DX1105 (2X)	21.4	--	--	169.1	---	---	2.1	--	--
*Stauffer Seeds S5602 (2X)	21.5	--	--	162.8	---	---	0.7	--	--
Pioneer 3744 (2X)	21.5	26	--	153.3	153	---	1.4	2	--
Stauffer Seeds S3406WX (2X)	21.5	--	--	152.3	---	---	3.5	--	--
O's Gold 6680 (2X)	21.5	27	27	158.7	152	154	2.8	4	2
Hyland HL-2727 (2X)	21.6	--	--	148.9	---	---	0.8	--	--
Hyland HL-2440 (2X)	21.6	--	--	121.4	---	---	5.7	--	--
Super Crost 2396 (2X)	21.6	--	--	153.3	---	---	2.9	--	--
DeKalb EX-2929 (2X)	21.6	--	--	156.3	---	---	2.8	--	--
Lynds LX4100 (2X)	21.6	28	--	139.0	142	---	1.4	1	--
*Andersons SSM (2X)	21.7	26	27	167.2	162	160	2.2	3	3
Dairyland DX1006 (2X)	21.8	--	--	150.7	---	---	2.8	--	--
DeKalb XL-314 (3X)	21.8	25	--	129.6	136	---	3.7	4	--
Sohigro 35 (2X)	21.9	--	--	158.0	---	---	2.8	--	--
Funk G-4342 (2X)	21.9	--	--	155.4	---	---	2.8	--	--
*Northrup King PX39 (2X)	21.9	28	27	167.0	166	160	1.5	3	3
Stauffer Seeds S5650 (2X)	22.1	--	--	156.8	---	---	3.5	--	--
*Farmers FCC224A (2X)	22.1	28	--	172.8	175	---	2.1	6	--
Funk G-4323 (MSX)	22.1	27	27	154.8	157	154	1.4	4	2
*Payco SX620 (2X)	22.1	--	--	166.5	---	---	1.4	--	--
*Voris Exp. 0064 (2X)	22.2	--	--	163.1	---	---	1.5	--	--
Jacques JX151 (2X)	22.2	--	--	140.7	---	---	4.1	--	--
*Kaltenberg KX68 (2X)	22.3	28	--	162.2	153	---	0.7	3	--
Kaltenberg KX61 (2X)	22.3	--	--	143.4	---	---	0.0	--	--
Sohigro 39 (2X)	22.4	28	27	157.2	154	149	6.1	3	2
Pro-Seed HL-2725 (2X)	22.4	--	--	154.2	---	---	11.3	--	--
DeKalb XL-18 (2X)	22.5	--	--	141.4	---	---	0.7	--	--
*Voris V2472 (2X)	22.6	28	27	166.2	159	160	3.0	2	3
Stauffer Seeds S5260 (2X)	22.6	--	--	151.4	---	---	0.7	--	--
Dairyland DX1007B (2X)	22.6	27	27	147.0	149	153	8.1	4	3
*Gries GSF X500 (2X)	22.7	28	--	161.4	154	---	3.5	3	--
Garno S-100 (2X)	22.7	--	--	145.8	---	---	0.7	--	--
Golden Harvest H-2448 (2X)	22.8	28	27	147.9	161	164	4.2	3	2
Great Lakes GL-516 (2X)	22.8	29	--	151.6	156	---	2.9	3	--

(continued)

Table 13 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Paymaster 2990 (2X)	22.8	28	28	145.9	150	146	0.7	2	1
*Payco SX788 (2X)	22.9	28	--	165.8	167	---	7.9	6	--
Stanton SX10100 (2X)	23.0	--	--	146.2	---	---	2.2	--	--
Hyland HL-2784 (2X)	23.4	28	--	143.7	161	---	5.8	4	--
Payco SX844 (2X)	23.5	29	28	155.8	159	157	0.8	2	2
Gries GSF X600 (2X)	23.6	29	--	145.1	158	---	2.8	2	--
DeKalb T1000 (2X)	23.6	29	--	148.0	156	---	3.7	4	--
Lynds LX4210 (2X)	23.6	--	--	141.5	---	---	0.7	--	--
*Great Lakes GL-5922 (2X)	23.7	28	27	162.3	167	166	1.4	2	2
O's Gold 1170A (2X)	23.7	--	--	155.5	---	---	2.2	--	--
Great Lakes GL-522 (2X)	23.9	28	--	155.8	162	---	1.4	1	--
Stauffer Seeds S6389 (2X)	24.0	--	--	159.3	---	---	1.5	--	--
Lynds LX4225 (2X)	24.2	--	--	159.6	---	---	1.4	--	--
*Paymaster 4660 (2X)	24.3	--	--	168.6	---	---	3.4	--	--
*Golden Harvest XS-436 (2X)	24.6	30	--	162.7	160	---	2.9	2	--
*Kaltenberg KX58 (2X)	25.2	29	28	162.0	164	161	5.6	9	8
Average	21.1	26	26	148.7	151	150	3.1	4	3
Range	18.0 to 25.2	22 to 30	22 to 28	124.9 to 172.8	129 to 175	126 to 166	0.0 to 11.3	1 to 12	1 to 8
Least significant difference	1.4	1.0	0.7	12.1	8	5	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	May 5	May 5-6	May 9
Harvested	November 2	October 27	November 3
Soil Type	Parkhill Loam	Parkhill Loam	Parkhill-Capac Loam
Previous Crop	Wheat	Corn	Corn
Population	21,300	20,800	21,000
Rows	30"	30"	30"
Fertilizer	213-53-113	289-150-180	168-78-198
Soil Test:	pH 7.8	7.6	7.8
P	144 (very high)	103 (very high)	130 (very high)
K	301 (high)	392 (very high)	335 (very high)

Farm Cooperator: Reinhold Bros., Reese

County Extension Directors: Harold Ferris and Steve Poindexter, Saginaw

Table 14

NORTH CENTRAL MICHIGAN
Huron County Trial - Grain
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Cargill 805 (2X)	19.6	21	--	82.5	85	---	33.9	52	--
Northrup King PX9144 (2X)	21.8	--	--	108.3	---	---	5.6	--	--
Warwick W844 (MSX)	22.3	22	22	102.9	90	82	39.7	40	45
Cargill 810 (2X)	22.4	23	22	115.4	100	89	12.3	11	19
Pioneer 3950 (MSX)	23.1	23	23	116.1	113	112	1.4	3	7
Northrup King PX14 (2X)	23.2	--	--	127.1	---	---	3.0	--	--
Pride 1169 (2X)	23.3	--	--	106.3	---	---	6.5	--	--
Renk RK5 (2X)	23.6	--	--	86.7	---	---	26.9	--	--
Stauffer Seeds S3242 (2X)	23.7	--	--	125.8	---	---	10.9	--	--
Lynds LX4040 (2X)	24.2	23	--	130.7	117	---	1.5	4	--
Funk G-4085 (3X)	24.4	24	23	92.7	89	85	21.5	16	24
Payco SX431 (2X)	24.4	--	--	139.8	---	---	12.9	--	--
Stanton SX1090 (2X)	24.5	--	--	120.4	---	---	3.6	--	--
DeKalb XL-8 (2X)	24.7	--	--	95.4	---	---	7.8	--	--
Payco SX599 (2X)	24.8	--	--	129.7	---	---	3.1	--	--
Hyland HL-2428 (2X)	24.8	24	--	110.6	106	---	13.1	18	--
Pioneer 3901 (2X)	24.9	26	25	140.6	124	127	4.4	5	9
Andersons SSA (2X)	25.6	25	24	122.7	115	110	34.9	24	30
Wolverine W155 (2X)	25.7	--	--	118.0	---	---	10.9	--	--
Dairyland DX1090 (2X)	25.8	--	--	99.0	---	---	11.6	--	--

(continued)

Table 14 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2	3	1982	2	3	1982	2	3
Pioneer 3906 (2X)	25.9	26	25	129.9	123	126	0.7	4	4
O's Gold 2310 (2X)	26.2	--	--	122.4	--	--	7.1	--	--
Super Crost 1621 (2X)	26.4	--	--	123.9	--	--	0.7	--	--
Agrow RK40 (2X)	26.5	26	--	118.9	115	--	2.2	5	--
Renk RK6 (2X)	26.6	27	25	125.4	105	104	3.5	7	8
Lynks LX3940 (2X)	26.6	--	--	110.4	--	--	4.4	--	--
Dairyland DX1099 (2X)	26.8	27	--	127.2	117	--	16.3	16	--
O's Gold 2321 (2X)	26.9	--	--	127.9	--	--	2.3	--	--
DeKalb EX-1112 (2X)	26.9	--	--	127.7	--	--	1.5	--	--
Stanton SX1095 (2X)	26.9	--	--	127.0	--	--	5.7	--	--
Dairyland DX1088 (2X)	27.0	--	--	131.1	--	--	4.3	--	--
Cargill 834 (2X)	27.2	26	--	127.8	115	--	5.9	6	--
Garno S90 (2X)	27.3	27	25	139.5	129	119	8.2	6	16
Super Crost 1663 (2X)	27.4	--	--	109.3	--	--	26.3	--	--
Funk G-4081 (MSX)	27.4	--	--	117.1	--	--	6.3	--	--
Dairyland DX1094 (2X)	27.5	--	--	121.1	--	--	2.8	--	--
Hyland HL-2454 (2X)	27.6	26	--	141.2	126	--	5.8	9	--
Great Lakes GL-422 (2X)	27.6	26	25	143.2	133	122	2.9	5	17
Hyland HL-2440 (2X)	27.7	--	--	115.8	--	--	15.8	--	--
Super Crost 1923 (2X)	27.7	--	--	127.0	--	--	16.8	--	--
DeKalb XL-14AA (2X)	27.8	--	--	127.3	--	--	1.4	--	--
*Super Crost 1940 (2X)	27.9	--	--	151.7	--	--	5.2	--	--
Warwick W901 (2X)	27.9	26	--	106.3	99	--	17.4	13	--
Golden Harvest H-2300 (MSX)	27.9	--	--	140.0	--	--	4.5	--	--
Payco SX620 (2X)	28.0	--	--	137.9	--	--	20.9	--	--
DeKalb EX-1615 (2X)	28.1	--	--	127.5	--	--	4.3	--	--
*Great Lakes GL-466 (2X)	28.1	27	--	152.9	137	--	7.7	6	--
Dairyland DX1096 (2X)	28.2	27	25	131.7	115	111	8.0	8	14
Funk G-4256 (3X)	28.2	27	26	136.3	125	115	4.0	6	9
*Dairyland DX1003 (2X)	28.3	28	26	163.6	142	139	2.2	3	6
DeKalb EX-2120 (2X)	28.4	--	--	124.6	--	--	6.0	--	--
*Pride 3332 (2X)	28.5	27	--	149.6	132	--	9.2	9	--
Stauffer S3306 (2X)	28.6	27	--	140.5	117	--	5.9	7	--
*Migro HP-266 (2X)	28.6	--	--	162.8	--	--	2.9	--	--
Funk G-4224 (MSX)	28.6	28	27	132.4	120	112	12.6	9	13
O's Gold 2330 (2X)	28.6	28	--	139.2	130	--	3.7	5	--
Northrup King PX9288 (2X)	28.7	--	--	127.5	--	--	5.6	--	--
Funk G-4141A (MSX)	28.7	28	26	129.7	119	110	14.0	9	13
P.A.G. SX177 (2X)	28.7	28	27	131.2	128	116	19.7	14	16
Stauffer Seeds S4402 (2X)	29.0	27	--	134.9	126	--	3.6	7	--
Funk Exp. 29306 (MSX)	29.0	--	--	131.5	--	--	17.4	--	--
DeKalb T950 (2X)	29.1	27	--	112.9	111	--	13.3	8	--
Pride R319 (3X)	29.1	27	26	133.6	117	114	12.0	15	15
*Super Crost 2350 (2X)	29.2	30	28	150.0	132	128	6.5	4	5
Stanton SX10100 (2X)	29.5	--	--	144.1	--	--	2.2	--	--
*Great Lakes GL-477 (2X)	29.5	29	28	152.0	143	142	3.8	5	7
Warwick W966 (MSX)	29.6	--	--	135.3	--	--	8.9	--	--
*Lynks LX4075 (2X)	29.8	28	--	151.3	132	--	1.4	4	--
*Jacques JX97 (2X)	29.9	--	--	150.3	--	--	2.9	--	--
*Migro HP-277 (2X)	30.3	29	--	151.3	133	--	1.4	3	--
*Sohigro Exp. 121 (2X)	30.3	--	--	148.9	--	--	7.0	--	--
Lynks LX4100 (2X)	30.5	29	--	142.6	132	--	3.0	4	--
*DeKalb XL-18 (2X)	30.5	--	--	149.4	--	--	2.1	--	--
Golden Harvest H-2380 (2X)	30.6	--	--	133.7	--	--	2.1	--	--
*P.A.G. SX181 (2X)	30.6	28	26	158.6	131	120	6.3	9	9
Stauffer Seeds 605WX (2X)	30.9	--	--	143.6	--	--	1.5	--	--
DeKalb XL-25A (2X)	30.9	30	28	143.5	135	127	0.0	1	9
Wolverine W166 (2X)	31.0	28	27	137.5	124	130	3.0	6	6
*Super Crost 2410 (2X)	31.1	30	--	153.4	132	--	5.7	6	--
*Sohigro 35 (2X)	31.1	30	--	157.3	136	--	7.4	7	--
Garno S-94E (2X)	31.2	29	--	144.3	129	--	1.4	3	--
Super Crost 2396 (2X)	31.3	31	29	131.8	130	125	4.3	7	7
*Jacques JX151 (2X)	31.5	--	--	149.5	--	--	3.7	--	--
Renk RK18 (2X)	31.6	29	27	132.3	119	116	7.8	7	10
Stauffer Seeds S3406WX (2X)	31.7	--	--	147.4	--	--	7.6	--	--
*Pioneer 3744 (2X)	31.8	29	--	150.2	143	--	1.4	1	--
*Pride 4488 (2X)	31.8	32	30	149.4	141	143	10.8	8	7
Renk RK24 (2X)	32.0	30	--	145.5	141	--	4.2	4	--
DeKalb T1000 (2X)	32.1	30	--	144.6	140	--	7.2	10	--
*Paymaster 2990 (2X)	32.3	32	--	168.6	141	--	7.6	7	--

(continued)

Table 14 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2	3	1982	2	3	1982	2	3
*Stauffer Seeds S5602 (2X)	32.3	30	--	153.1	140	--	2.8	4	--
Kaltenberg KX61 (2X)	32.7	--	--	124.7	--	--	2.2	--	--
*Payco SX788 (2X)	32.7	31	--	150.7	137	--	4.2	2	--
Migro HP-360 (2X)	32.9	32	--	129.7	126	--	1.5	4	--
Wolverine W168 (2X)	32.9	32	30	132.9	124	124	3.0	5	13
Great Lakes GL-516 (2X)	33.1	--	--	146.7	--	--	0.7	--	--
*Great Lakes GL-5922 (2X)	33.2	32	30	160.5	153	147	0.0	1	6
*Dairyland DX1007B (2X)	33.3	--	--	151.7	--	--	0.8	--	--
Kaltenberg KX55 (2X)	33.3	30	--	132.9	136	--	0.0	4	--
Dairyland DX1105 (2X)	33.4	--	--	139.2	--	--	0.7	--	--
Paymaster 4660 (2X)	33.4	32	--	143.1	146	--	1.6	5	--
*DeKalb XL-32A (2X)	33.4	32	--	149.8	141	--	1.5	1	--
*Stauffer Seeds S5260 (2X)	33.4	--	--	163.8	--	--	2.1	--	--
Andersons SSM (2X)	33.8	34	31	140.6	138	138	0.0	5	9
*Kaltenberg KX58 (2X)	33.8	33	31	149.2	138	136	2.8	5	13
Kaltenberg KX68 (2X)	33.9	33	31	141.5	124	120	0.7	1	3
Lynks LX4225 (2X)	33.9	--	--	143.5	--	--	1.4	--	--
Kaltenberg KX54A (2X)	34.0	33	--	131.3	124	--	0.8	2	--
Dairyland DX1006 (2X)	34.0	--	--	138.2	--	--	2.1	--	--
Funk G-4315 (MSX)	34.1	--	--	147.3	--	--	2.2	--	--
Great Lakes GL-522 (2X)	34.1	32	--	148.1	135	--	0.0	4	--
Renk RK66 (2X)	34.3	32	30	140.0	134	128	0.0	1	5
*Sohigro 39 (2X)	34.3	33	31	150.0	140	137	3.4	2	3
*Northrup King PX39 (2X)	34.4	32	30	152.0	146	141	1.4	2	3
Dairyland DX1008 (2X)	34.6	--	--	147.5	--	--	0.0	--	--
Stauffer Seeds S5650 (2X)	35.1	--	--	138.0	--	--	0.0	--	--
Dairyland DX1007 (2X)	35.1	--	--	128.5	--	--	0.7	--	--
Lynks LX4210 (2X)	35.1	--	--	132.0	--	--	1.5	--	--
Golden Harvest H-2448 (2X)	35.7	33	31	144.9	133	135	0.8	5	6
Golden Harvest H-2500 (2X)	36.4	36	34	117.6	125	130	2.1	1	7
Average	29.3	29	27	134.6	126	122	6.4	7	11
Range	19.6 to 36.4	21 to 36	22 to 34	82.5 to 168.6	75 to 153	82 to 147	0.0 to 39.7	1 to 52	3 to 45
Least Significant Difference	1.9	1.5	1.1	14.2	9	6	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	May 1	May 8	May 7
Harvested	October 25	November 4	November 7
Soil Type	Kilmanagh Loam	Kilmanagh Loam	Kilmanagh Loam
Previous Crop	Corn	Corn	Corn
Population	21,300	21,400	21,200
Rows	30"	30"	30"
Fertilizer	199-83-150+2n	133-140-72	188-95-195
Soil Test: pH	7.3	6.9	7.2
P	152 (very high)	119 (very high)	149 (very high)
K	360 (very high)	224 (high)	440 (very high)

Farm Cooperator: William McCrea, Bad Axe

District Livestock Agent: Lee Warschafsky, Bad Axe

Table 15

NORTH CENTRAL MICHIGAN
Huron County Trial - Silage
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 3

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre			Dry Weight		
	1982	2	3	1982	2	3	1982	2	3
Warwick W844 (MSX)	47.0	49.1	48.9	12.8	12.7	12.1	6.0	6.2	5.9
Cargill 805 (2X)	46.4	43.1	--	11.2	12.2	--	5.2	5.2	--
Dairyland DX1090 (2X)	45.6	--	--	15.1	--	--	6.9	--	--
Pioneer 3950 (MSX)	44.6	43.1	42.3	15.5	16.1	15.7	6.9	6.9	6.6
Northrup King PX9144 (2X)	42.0	--	--	15.7	--	--	6.6	--	--
Cargill 810 (2X)	41.5	41.2	44.9	16.9	15.6	14.4	7.0	6.4	6.4
Payco SX431 (2X)	40.4	--	--	15.3	--	--	6.2	--	--
Northrup King PX14 (2X)	40.1	--	--	16.2	--	--	6.5	--	--
Pride 1169 (2X)	40.0	--	--	14.0	--	--	5.6	--	--
Lynks LX3940 (2X)	39.8	--	--	14.8	--	--	5.9	--	--

(continued)

Table 15 (continued)

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre					
				Green Weight		Dry Weight			
	1982	2	3	1982	2	3	1982	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
DeKalb EX-1112 (2X)	39.7	---	---	16.6	---	---	6.6	---	---
P.A.G. SX181 (2X)	39.4	42.1	39.7	18.8	16.9	16.8	7.4	7.0	6.6
Cargill 834 (2X)	39.2	40.0	---	17.6	17.4	---	6.9	6.9	---
Stauffer Seeds S3242 (2X)	39.1	---	---	17.6	---	---	6.9	---	---
Funk G-4085 (3X)	39.1	40.3	40.5	17.4	15.0	14.3	6.8	6.0	5.8
Dairyland DX1088 (2X)	39.0	---	---	17.4	---	---	6.8	---	---
Funk G-4081 (MSX)	38.8	---	---	17.8	---	---	6.9	---	---
DeKalb XL-8 (2X)	38.8	---	---	17.5	---	---	6.8	---	---
Dairyland DX1094 (2X)	38.7	---	---	19.4	---	---	7.5	---	---
Kaltenberg KX55 (2X)	38.5	38.4	---	20.3	20.3	---	7.8	7.8	---
Pioneer 3906 (2X)	38.4	41.7	39.1	19.0	16.9	17.0	7.3	7.0	6.6
Renk RK6 (2X)	38.3	40.4	39.3	16.4	14.4	14.7	6.3	5.8	5.7
Garno S-94E (2X)	38.2	37.4	---	18.3	21.3	---	7.0	7.9	---
Wolverine WL55 (2X)	38.0	---	---	18.4	---	---	7.0	---	---
Renk RK5 (2X)	37.8	42.0	---	15.3	14.2	---	5.8	5.9	---
Funk G-4141 (MSX)	37.8	36.9	38.2	19.6	17.8	17.0	7.4	6.6	6.4
Andersons SSA (2X)	37.7	38.9	40.1	18.6	16.7	16.2	7.0	6.4	6.4
Super Crost 1663 (2X)	37.7	---	---	16.7	---	---	6.3	---	---
Stanton SX1095 (2X)	37.5	---	---	19.2	---	---	7.2	---	---
Stanton SX1090 (2X)	37.3	---	---	18.5	---	---	6.9	---	---
O's Gold 2310 (2X)	37.3	---	---	19.6	---	---	7.3	---	---
Garno S-90 (2X)	37.2	38.5	40.7	19.9	17.7	16.8	7.4	6.8	6.8
Pride 3332 (2X)	37.1	39.9	---	21.0	17.8	---	7.8	7.0	---
Pioneer 3901 (2X)	36.8	39.1	38.7	20.7	18.8	18.8	7.6	7.3	7.2
O's Gold 2321 (2X)	36.7	---	---	19.1	---	---	7.0	---	---
Renk RK18 (2X)	36.4	36.3	35.5	18.7	16.2	16.4	6.8	5.9	5.8
Payco SX599 (2X)	36.2	---	---	17.7	---	---	6.4	---	---
Great Lakes GL-422 (2X)	36.2	39.2	41.2	20.2	17.2	16.6	7.3	6.6	6.7
Lyons LX4075 (2X)	36.0	36.6	---	20.0	18.7	---	7.2	6.8	---
Pride R319 (3X)	36.0	38.9	39.9	20.6	19.8	18.7	7.4	7.6	7.4
Hyland HL-2428 (2X)	36.0	39.4	---	19.7	18.5	---	7.1	7.2	---
Super Crost 1621 (2X)	36.0	---	---	18.6	---	---	6.7	---	---
Warwick W901 (2X)	35.9	37.1	---	17.0	16.6	---	6.1	6.2	---
Sohgro Exp. 121 (2X)	35.9	---	---	20.3	---	---	7.3	---	---
Stauffer Seeds S4402 (2X)	35.9	37.5	---	21.4	19.6	---	7.7	7.3	---
Migro HP-266 (2X)	35.9	---	---	18.7	---	---	6.7	---	---
Jacques JX97 (2X)	35.8	---	---	18.7	---	---	6.7	---	---
Great Lakes GL-516 (2X)	35.7	---	---	22.4	---	---	7.6	---	---
Funk G-4256 (3X)	35.6	37.0	36.8	21.3	19.0	18.2	7.6	7.0	6.7
DeKalb XL-14AA (2X)	35.5	---	---	17.2	---	---	6.1	---	---
Great Lakes GL-466 (2X)	35.5	37.8	---	20.3	20.0	---	7.2	7.5	---
P.A.G. SX177 (2X)	35.5	37.7	38.6	22.8	22.0	20.2	8.1	8.2	7.7
DeKalb T1000 (2X)	35.5	34.3	---	22.5	21.5	---	8.0	7.4	---
Golden Harvest H-2380 (2X)	35.5	---	---	19.2	---	---	6.8	---	---
Dairyland DX1099 (2X)	35.5	39.7	---	17.7	17.9	---	6.3	7.1	---
Super Crost 1940 (2X)	35.4	---	---	21.8	---	---	7.7	---	---
Payco SX788 (2X)	35.4	34.3	---	20.9	21.3	---	7.4	7.3	---
Asgrow RX40 (2X)	35.4	40.2	---	20.1	17.6	---	7.1	6.9	---
Stauffer Seeds S3306 (2X)	35.3	40.8	---	19.3	17.3	---	6.8	6.9	---
Stauffer Seeds S3406WX (2X)	35.3	---	---	20.1	---	---	7.1	---	---
Funk Exp. 29306 (MSX)	34.9	---	---	21.2	---	---	7.4	---	---
Wolverine WL68 (2X)	34.8	38.0	37.9	22.4	19.4	19.4	7.8	7.3	7.3
DeKalb T950 (2X)	34.8	36.2	---	19.5	18.2	---	6.8	6.6	---
Paymaster 2990 (2X)	34.7	33.7	---	21.3	22.0	---	7.4	7.4	---
Funk G-4315 (MSX)	34.6	---	---	22.0	---	---	7.6	---	---
Migro HP-360 (2X)	34.5	32.2	---	18.6	19.7	---	6.4	6.3	---
Hyland HL-2454 (2X)	34.2	39.3	---	20.5	17.7	---	7.0	6.8	---
DeKalb XL-18 (2X)	34.2	---	---	19.9	---	---	6.8	---	---
Dairyland DX1096 (2X)	34.2	41.3	43.3	20.2	17.6	15.9	6.9	7.1	6.7
Lyons LX4040 (2X)	34.2	37.1	---	18.4	18.2	---	6.3	6.8	---
Wolverine WL66 (2X)	34.1	35.8	36.1	18.5	19.8	19.4	6.3	7.1	7.0
Golden Harvest H-2300 (MSX)	34.1	---	---	19.9	---	---	6.8	---	---
Warwick W966 (MSX)	34.1	---	---	18.5	---	---	6.3	---	---
Lyons LX4100 (2X)	34.1	33.7	---	20.8	20.2	---	7.1	6.8	---
Payco SX620 (2X)	34.1	---	---	18.5	---	---	6.3	---	---
O's Gold 2330 (2X)	33.8	34.6	---	19.2	20.9	---	6.5	7.2	---
Northrup King PX9288 (2X)	33.8	---	---	21.6	---	---	7.3	---	---
Stanton SX10100 (2X)	33.6	---	---	21.7	---	---	7.3	---	---
Hyland HL-2440 (2X)	33.5	34.2	---	18.8	18.4	---	6.3	6.2	---
Migro HP-277 (2X)	33.4	33.2	---	20.7	19.6	---	6.9	6.5	---
Dairyland DX1105 (2X)	33.4	---	---	21.6	---	---	7.2	---	---
Great Lakes GL-477 (2X)	33.4	34.4	34.9	23.7	23.8	23.7	7.9	8.2	8.3
DeKalb EX-2120 (2X)	33.3	---	---	18.9	---	---	6.3	---	---
DeKalb EX-1615 (2X)	33.3	---	---	18.9	---	---	6.3	---	---
Renk RK24 (2X)	33.3	33.9	---	18.0	20.0	---	6.0	6.8	---
Dairyland DX1003 (2X)	33.3	34.6	34.7	19.2	19.4	19.1	6.4	6.7	6.6
Super Crost 2410 (2X)	33.2	33.4	---	22.0	22.3	---	7.3	7.4	---
Super Crost 1923 (2X)	33.2	---	---	18.1	---	---	6.0	---	---
DeKalb XL-25A (2X)	33.2	33.1	33.4	19.0	20.1	19.6	6.3	6.6	6.5
Paymaster 4660 (2X)	33.1	31.8	---	22.4	24.4	---	7.4	7.7	---
Jacques JX151 (2X)	33.0	---	---	20.6	---	---	6.8	---	---
Kaltenberg KX61 (2X)	33.0	---	---	21.2	---	---	7.0	---	---
Great Lakes GL-522 (2X)	33.0	32.0	---	21.2	22.9	---	7.0	7.3	---
Andersons SSM (2X)	32.6	32.0	32.6	24.2	25.1	23.6	7.9	8.0	7.7
Pride 4488 (2X)	32.6	31.1	31.8	21.8	24.0	22.9	7.1	7.4	7.2

(continued)

Table 15 (continued)

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre					
				Green Weight		Dry Weight			
	1982	2	3	1982	2	3	1982	2	3
	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.	yr.
Kaltenberg KX68 (2X)	32.5	32.4	31.9	23.4	22.3	21.4	7.6	7.2	6.9
Super Crost 2396 (2X)	32.4	32.5	33.2	20.1	21.6	20.0	6.5	7.0	6.6
Funk G-4224 (MSX)	32.4	37.5	37.8	20.1	18.8	18.4	6.5	7.0	6.9
Pioneer 3744 (2X)	32.1	34.8	---	21.8	19.8	---	7.0	6.8	---
Dairyland DX1006 (2X)	32.1	---	---	21.2	---	---	6.8	---	---
Kaltenberg KX58 (2X)	31.6	33.2	33.6	25.0	24.6	24.3	7.9	8.1	8.1
Northrup King PX39 (2X)	31.4	32.8	32.6	21.3	23.8	23.6	6.7	7.8	7.7
Sohgro 39 (2X)	31.0	31.2	30.9	25.5	25.7	24.2	7.9	8.0	7.4
Super Crost 2350 (2X)	30.9	31.5	32.1	21.4	21.9	20.4	6.6	6.9	6.5
Great Lakes GL-5922 (2X)	30.9	31.8	32.0	25.2	25.7	25.6	7.8	8.2	8.2
Stauffer Seeds S5650 (2X)	30.7	---	---	24.4	---	---	7.5	---	---
Lyons LX4225 (2X)	30.7	---	---	22.5	---	---	6.9	---	---
Golden Harvest H-2448 (2X)	30.7	32.5	31.4	23.1	24.5	25.7	7.1	8.0	8.1
Sohgro 35 (2X)	30.6	31.1	---	21.6	21.4	---	6.6	6.6	---
Dairyland DX1008 (2X)	30.5	---	---	23.9	---	---	7.3	---	---
Stauffer Seeds S5602 (2X)	30.5	31.5	---	20.3	21.5	---	6.2	6.5	---
Kaltenberg KX54A (2X)	30.3	31.2	---	21.1	22.4	---	6.4	6.9	---
Renk RK66 (2X)	30.1	29.5	30.7	24.3	24.4	23.8	7.3	7.2	7.3
Stauffer Seeds 605WX (2X)	30.1	---	---	21.6	---	---	6.5	---	---
Dairyland DX1007B (2X)	29.9	---	---	20.4	---	---	6.1	---	---
Dairyland DX1007 (2X)	29.8	---	---	22.1	---	---	6.6	---	---
Stauffer Seeds S5260 (2X)	29.5	---	---	23.1	---	---	6.8	---	---
DeKalb XL-32A (2X)	29.3	29.7	---	21.2	23.2	---	6.2	6.9	---
Lyons LX4210 (2X)	29.1	---	---	20.6	---	---	6.0	---	---
Golden Harvest H-2500 (2X)	26.8	26.1	27.1	26.9	27.4	27.1	7.2	7.1	7.3
Average	35.4	36.1	36.5	19.2	19.8	19.5	6.8	7.0	6.9
Range	26.8 to 47.0	26.1 to 49.1	27.1 to 48.9	11.2 to 26.9	12.2 to 27.4	12.1 to 27.1	5.2 to 8.1	5.2 to 8.2	5.7 to 8.3
Least Significant Difference	3.1	2.0	1.4	1.9	1.5	1.0	0.7	0.5	0.4

	1982	1981	1980
Planted	May 1	May 7	May 7
Harvested	September 15	September 22	September 19
Soil type	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
Previous crop	Corn	Corn	Corn
Population	22,000	21,600	21,400
Rows	30"	30"	30"
Fertilizer	199-83-150	185-218-214	188-95-195
Soil test: pH	7.3	7.2	7.2
P	152 (very high)	106 (very high)	149 (very high)
K	360 (very high)	432 (very high)	440 (very 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 - 1982, 1981, 1980

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2	3	1982	2	3	1982	2	3
		yr.	yr.		yr.	yr.		yr.	
Funk G-4085 (3X)	23.2	23	23	64.8	84	87	4.3	4	5
Pioneer 3950 (MSX)	23.6	23	23	73.6	90	100	1.4	1	1
Pride 1169 (2X)	24.6	--	--	59.4	---	---	3.9	--	--
Dairyland DX1094 (2X)	24.6	--	--	61.0	---	---	0.7	--	--
Mckenzie 870 (2X)	24.7	27	--	69.8	89	---	1.5	2	--
Dairyland DX1088 (2X)	25.1	--	--	64.5	---	---	6.9	--	--
Warwick TX27 (3X)	25.2	--	--	62.1	---	---	6.5	--	--
Funk G-4081 (MSX)	25.3	--	--	74.8	---	---	2.8	--	--
Dairyland DX1090 (2X)	25.4	24	24	67.4	84	91	6.6	5	5
Funk G-4256 (3X)	25.5	26	26	78.4	93	98	3.6	3	6
Stauffer Seeds S2202 (2X)	25.6	--	--	79.0	---	---	3.0	--	--
Farm Bureau FBSX344 (2X)	25.6	--	--	70.1	---	---	1.4	--	--
Lynks LX4040 (2X)	25.6	25	--	70.7	93	---	10.1	7	--
DeKalb EX-1112 (2X)	25.7	--	--	70.2	---	---	2.9	--	--
Stanton SX1090 (2X)	25.9	--	--	79.6	---	---	4.2	--	--
*Pioneer 3901 (2X)	26.0	25	26	99.6	114	125	0.0	1	1
Wolverine W126 (2X)	26.2	--	--	60.1	---	---	3.0	--	--
Eastland 210 (MSX)	26.3	--	--	69.3	---	---	6.2	--	--
*DeKalb XL-8 (2X)	26.4	--	--	95.2	---	---	1.5	--	--
Super Cross 1621 (2X)	26.4	--	--	79.9	---	---	0.7	--	--
*O's Gold 2310 (2X)	26.4	--	--	93.7	---	---	4.2	--	--
*Pioneer 3958 (2X)	26.5	26	25	91.3	99	102	2.9	4	4
Eastland 238 (MSX)	26.8	--	--	80.7	---	---	2.1	--	--
*Payco 5X431 (2X)	26.8	--	--	87.9	---	---	2.9	--	--
*Great Lakes GL-422 (2X)	27.0	26	26	88.5	106	117	2.9	3	3

Table 16 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Northrup King PX9288 (2X)	27.0	26	--	74.8	88	---	5.6	4	--
Hyland HL-2428 (2X)	27.0	--	--	60.7	---	---	11.5	--	--
Migro HP-266 (2X)	27.3	--	--	86.6	---	---	0.8	--	--
Pride 3332 (2X)	27.3	26	--	58.9	79	---	10.8	9	--
Northrup King PX485 (3X)	27.5	27	26	76.0	95	109	0.8	5	4
Payco SX599 (2X)	27.5	--	--	61.3	---	---	0.7	--	--
Stauffer Seeds S3406WX (2X)	27.8	--	--	81.7	---	---	4.3	--	--
Lynks LX3940 (2X)	27.9	--	--	85.2	---	---	3.7	--	--
Northrup King PX449 (3X)	28.2	--	--	79.4	---	---	2.9	--	--
Funk Exp. 29306 (MSX)	28.3	--	--	60.9	---	---	2.2	--	--
*Jacques JX97 (2X)	28.4	--	--	95.3	---	---	2.2	--	--
DeKalb EX-1615 (2X)	28.8	--	--	71.9	---	---	4.5	--	--
P.A.G. SX189 (2X)	28.8	--	--	72.5	---	---	7.1	--	--
Asgrow RX355 (2X)	28.9	25	--	73.1	82	---	2.1	8	--
*Migro HP-277 (2X)	29.0	27	--	95.2	100	---	2.8	1	--
*Great Lakes GL-455 (2X)	29.1	27	27	89.9	107	117	3.0	2	3
Dairyland DX1096 (2X)	29.1	28	27	83.6	104	112	2.2	3	5
Funk G-424 (MSX)	29.3	28	28	69.8	88	100	3.6	6	4
*Stauffer Seeds S3242 (2X)	29.5	--	--	88.4	---	---	4.9	--	--
Wolverine W155 (2X)	29.5	--	--	78.4	---	---	3.0	--	--
Funk G-4141A (MSX)	29.7	27	26	74.4	88	93	5.7	4	7
Mckenzie 927 (MSX)	29.7	27	--	85.0	102	---	1.4	3	--
*Pioneer 3780 (2X)	29.8	28	28	89.1	106	114	5.9	5	5
Hyland HL-2440 (2X)	29.9	--	--	67.1	---	---	5.3	--	--
Stauffer Seeds S3306 (2X)	30.0	28	--	69.7	94	---	0.8	2	--
*Hyland HL-2454 (2X)	30.0	28	--	95.4	104	---	2.2	2	--
*Great Lakes GL-466 (2X)	30.2	29	--	95.0	106	---	1.4	2	--
*P.A.G. SX181 (2X)	30.2	28	--	89.6	104	---	4.3	6	--
DeKalb XL-25A (2X)	30.4	--	--	72.5	---	---	2.5	--	--
Stanton SX10100 (2X)	30.4	--	--	84.3	---	---	2.2	--	--
Wolverine W166 (2X)	30.5	--	--	85.8	---	---	2.2	--	--
Dairyland DX1003 (2X)	30.7	28	27	81.1	96	108	4.2	3	3
*Super Crost 1940 (2X)	30.8	--	--	95.6	---	---	1.4	--	--
Stauffer Seeds S4402 (2X)	31.0	28	--	84.1	101	---	1.4	2	--
DeKalb T950 (2X)	31.0	28	--	67.1	86	---	0.0	1	--
Warwick T1044 (2X)	31.0	--	--	85.7	---	---	1.4	--	--
*Mckenzie 987 (2X)	31.0	28	28	95.8	100	113	2.8	4	4
*Super Crost 2396 (2X)	31.1	--	--	76.9	---	---	4.3	--	--
*Payco SX788 (2X)	31.1	--	--	95.0	---	---	5.7	--	--
*Funk G-4315 (MSX)	31.2	--	--	91.2	---	---	2.9	--	--
Great Lakes GL-516 (2X)	31.2	--	--	84.1	---	---	2.8	--	--
Farm Bureau FBSX339 (2X)	31.2	--	--	65.0	---	---	1.4	--	--
Great Lakes GL-477 (2X)	31.3	29	29	81.9	106	124	0.0	1	2
Lynks LX4100 (2X)	31.4	30	--	63.4	85	---	1.5	2	--
Super Crost 2410 (2X)	31.6	--	--	78.6	---	---	1.5	--	--

(continued)

Table 16 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.	1982	2 yr.	3 yr.
Payco SX620 (2X)	31.6	--	--	69.9	---	---	0.7	--	--
Kaltenberg KX55 (2X)	31.7	28	--	74.3	101	---	0.7	2	--
Kaltenberg KX61 (2X)	31.7	31	--	62.4	95	---	2.9	5	--
Stanton SX1095 (2X)	31.7	--	--	84.5	---	---	3.6	--	--
Golden Harvest H-2380 (2X)	31.8	--	--	75.4	---	---	1.4	--	--
Mckenzie 980 (2X)	31.9	26	--	70.3	78	---	0.7	5	--
O's Gold 6880 (2X)	31.9	30	30	66.7	98	111	6.7	4	3
*Dairyland DX1105 (2X)	32.1	--	--	89.7	---	---	2.1	--	--
*Northrup King PX37 (2X)	32.4	--	--	104.2	---	---	0.7	--	--
Dairyland DX1006 (2X)	32.4	--	--	70.0	---	---	2.2	--	--
*DeKalb T1000 (2X)	32.4	31	--	94.0	98	---	2.3	3	--
Lynks LX4210 (2X)	32.4	--	--	75.2	---	---	0.0	--	--
Stauffer Seeds (2X)	32.5	31	--	84.5	104	---	4.2	4	--
Kaltenberg KX54A (2X)	32.5	32	--	66.8	90	---	0.0	0	--
*Northrup King PX39 (2X)	32.7	--	--	101.4	---	---	0.0	--	--
DeKalb EX-2120 (2X)	32.8	--	--	79.4	---	---	2.2	--	--
Jacques JX151 (2X)	32.8	--	--	83.4	---	---	5.7	--	--
Stauffer Seeds S5650 (2X)	33.3	--	--	85.0	---	---	0.0	--	--
Lynks LX4075 (2X)	33.4	29	--	65.9	87	---	2.4	3	--
*Gries GSF X500 (2X)	33.5	--	--	92.5	---	---	0.0	--	--
Gries GSF X600 (2X)	33.7	--	--	63.1	---	---	1.6	--	--
Lynks LX4225 (2X)	34.5	--	--	60.1	---	---	0.0	--	--
Stauffer Seeds S5260 (2X)	34.6	--	--	62.8	---	---	0.0	--	--
Average	29.2	27	26	73.3	95	107	2.8	3	4
Range	23.2	23	23	58.9	78	87	0.0	0.0	1
	to	to	to	to	to	to	to	to	to
	34.6	32	30	104.2	114	125	11.5	9	7
Least Significant Difference	1.9	1.2	1.0	9.4	7	5	--	--	--

*Significantly better than average yield in 1982.

Planted Harvested Soil Type	1982 May 15 November 2	1981 May 22 November 7	1980 May 21 November 10
	Isabella loam	Isabella loam	Parkhill loam and Metamora sandy loam
Previous Crop	Corn	Alfalfa	Corn
Population	21,500	21,300	21,100
Rows	38"	38"	38"
Fertilizer	129-100-133	127-100-32	140-80-130
Soil Test: pH	6.7	6.5	7.1
P	68 (medium high)	87 (high)	72 (high)
K	301 (high)	284 (high)	114 (low)

Farm Cooperator: Floyd Hauch, Rosebush

County Extension Director: Lyle Thompson, Mt. Pleasant

Table 17

NORTH CENTRAL MICHIGAN
Montcalm County Trial - Irrigated vs. Not Irrigated
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre				% Stalk Lodging			
	1982	2 Yrs.	3 Yrs.	1982	Not Irrig	2 Years Irrig	3 Years Irrig	1982	Not Irrig	2 Years Irrig	3 Years Irrig
Stanton SX1090 (2X)	20.2	--	--	136.3	108.9	---	---	0.0	7.2	--	--
Eastland 238 (MSX)	20.3	--	--	108.6	94.4	---	---	5.2	6.4	--	--
McKenzie 870 (2X)	20.3	23	--	120.7	108.6	125	101	0.8	5.0	3	9
DeKalb EX-1112 (2X)	20.5	--	--	130.9	106.3	---	---	0.7	11.5	--	--
Hyland HL-2428 (2X)	20.5	--	--	127.8	89.8	---	---	6.9	22.5	--	--
Dairyland DX1094 (2X)	20.8	--	--	144.3	104.9	---	---	1.5	6.7	--	--
Payco SX599 (2X)	21.0	--	--	115.1	90.1	---	---	1.5	9.9	--	--
Golden Harvest H-2380 (2X)	21.0	--	--	159.0	124.2	---	---	5.6	10.5	--	--
Asgrow RX355 (2X)	21.1	21	--	130.5	95.7	117	82	4.8	15.0	11	15
Stauffer Seeds S2202 (2X)	21.1	21	--	117.4	93.6	105	79	8.3	6.3	7	9
DeKalb EX-1615 (2X)	21.2	--	--	154.6	110.8	---	---	3.6	18.3	--	--
*†Garno S-90 (2X)	21.2	22	23	163.6	126.3	142	110	4.4	12.4	4	8
Garno S-85 (2X)	21.3	22	--	133.1	100.7	114	85	3.1	3.0	4	4
Dairyland DX1003 (2X)	21.4	23	24	152.9	114.4	138	107	1.4	9.9	4	7
Payco SX431 (2X)	21.6	--	--	112.7	92.0	---	---	6.3	10.6	--	--

(continued)

Table 17 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre						% Stalk Lodging					
	1982	2	3	1982	2 Years	3 Years	1982	2 Years	3 Years	1982	2 Years	3 Years	1982	2 Years	3 Years
		Yrs.	Yrs.	Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig	Irrig Not Irrig	Irrig Not Irrig	Irrig	Irrig Not Irrig	Irrig Not Irrig
Stauffer Seeds S3242 (2X)	21.6	--	--	112.7	97.1	---	---	---	---	2.3	6.2	--	--	--	--
Dairyland DX1096 (2X)	21.6	22	23	156.4	117.1	139	109	139	117	7.9	9.7	10	12	10	12
Jacques JX97 (2X)	21.7	--	--	150.6	111.0	---	---	---	---	3.7	13.4	--	--	--	--
DeKalb XL-8 (2X)	21.7	--	--	132.6	104.8	---	---	---	---	3.9	4.6	--	--	--	--
Pride 3332 (2X)	21.7	22	--	125.7	104.7	108	91	---	---	8.3	15.5	12	15	--	--
DeKalb XL-14AA (2X)	21.7	22	23	151.9	112.9	135	102	134	112	2.4	11.4	4	9	7	8
*†Great Lakes GL-422 (2X)	21.7	22	22	161.2	123.9	143	109	139	112	5.3	10.5	5	7	7	10
Funk G-4256 (3X)	21.8	23	23	135.1	105.3	125	96	118	96	3.0	12.8	2	11	9	14
Leader SX475 (2X)	21.9	--	--	113.3	92.4	---	---	---	---	3.2	18.9	--	--	--	--
Pioneer 3958 (2X)	21.9	22	23	147.7	115.8	125	92	117	94	2.3	6.1	5	13	5	14
Northrup King PX449 (3X)	22.0	--	--	120.0	103.7	---	---	---	---	3.7	4.1	--	--	--	--
Migro HP-266 (2X)	22.1	--	--	144.3	117.7	---	---	---	---	6.3	2.9	--	--	--	--
Hyland HL-2440 (2X)	22.2	--	--	118.8	92.4	---	---	---	---	2.5	15.9	--	--	--	--
*†Stanton SX1095 (2X)	22.2	--	--	166.6	125.8	---	---	---	---	3.1	14.7	--	--	--	--
*†Super Crost 2350 (2X)	22.3	24	24	162.1	124.9	151	113	148	121	3.6	15.6	4	13	5	10
*†Pioneer 3901 (2X)	22.3	22	23	162.4	124.7	146	111	148	120	3.0	6.7	2	4	4	6
Pioneer 3906 (2X)	22.3	23	--	149.0	120.5	140	109	---	---	0.7	2.2	2	4	--	--
Northrup King PX9288 (2X)	22.4	--	--	122.1	98.2	---	---	---	---	4.5	9.2	--	--	--	--
Kaltenberg KX55 (2X)	22.5	24	--	139.1	101.0	128	92	---	---	4.9	13.1	7	10	--	--
Great Lakes GL-455 (2X)	22.5	23	23	155.5	121.9	142	110	145	118	4.5	15.4	7	14	11	17
*Hyland HL-2454 (2X)	22.5	24	--	164.6	122.7	142	105	---	---	4.2	5.5	6	8	--	--
McKenzie 927 (MSX)	22.5	23	--	122.1	101.1	105	85	---	---	9.0	13.8	8	10	--	--
*†Payco SX620 (2X)	22.6	--	--	164.1	124.8	---	---	---	---	2.3	9.6	--	--	--	--
*DeKalb EX-1213 (2X)	22.6	23	--	163.2	121.1	134	103	---	---	3.0	14.4	6	12	--	--
Warwick W901 (2X)	22.6	22	23	141.2	83.1	125	82	119	85	3.6	33.6	7	25	10	24
Pioneer 3780 (2X)	22.6	23	24	151.7	114.6	136	103	137	112	2.2	11.9	4	12	5	10
Stauffer Seeds S3306 (2X)	22.7	22	--	120.2	91.0	119	93	---	---	6.3	9.1	5	7	--	--
P.A.G. SX181 (2X)	22.7	23	24	150.3	104.9	137	99	135	106	1.6	9.5	3	14	10	17
McKenzie 980 (2X)	22.9	--	--	140.3	119.1	---	---	---	---	2.3	2.0	--	--	--	--
*†Pioneer 3744 (2X)	23.1	24	--	160.1	125.5	145	117	---	---	1.4	8.6	2	7	--	--
Funk G-4224 (MSX)	23.2	24	24	123.7	100.2	117	95	115	97	3.8	15.7	4	11	10	15
Northrup King PX485 (2X)	23.2	--	--	123.9	101.9	---	---	---	---	4.4	15.3	--	--	--	--
Great Lakes GL-466 (2X)	23.4	24	--	158.2	118.5	138	101	---	---	2.9	6.2	3	8	--	--
Migro HP-277 (2X)	23.6	23	--	143.5	114.5	129	98	---	---	2.9	5.9	3	4	--	--
*†Northrup King PX37 (2X)	23.6	--	--	171.5	134.0	---	---	---	---	1.5	4.2	--	--	--	--
†DeKalb EX-2120 (2X)	23.7	--	--	145.7	123.8	---	---	---	---	0.7	9.7	--	--	--	--
Jacques JX151 (2X)	23.8	--	--	149.5	112.5	---	---	---	---	5.8	12.6	--	--	--	--
P.A.G. SX189 (2X)	23.8	--	--	158.9	113.1	---	---	---	---	3.1	13.6	--	--	--	--
Great Lakes GL-477 (2X)	23.8	24	25	156.2	115.5	144	107	148	120	5.9	10.1	7	10	7	10
Pride 4461 (2X)	24.1	--	--	143.0	111.7	---	---	---	---	5.9	11.2	--	--	--	--
Super Crost 2396 (2X)	24.2	25	26	158.8	118.9	145	110	141	112	5.8	12.3	5	11	7	12
Paymaster 2990 (2X)	24.2	--	--	153.8	115.5	---	---	---	---	6.4	12.2	--	--	--	--
Dairyland DX1006 (2X)	24.4	--	--	155.3	109.8	---	---	---	---	6.5	16.0	--	--	--	--
*†Migro M-2018X (2X)	24.4	26	27	169.0	128.4	152	118	153	126	3.0	7.5	3	5	4	6
Northrup King PX9415 (2X)	24.4	--	--	152.7	114.5	---	---	---	---	3.1	13.3	--	--	--	--

(continued)

Table 17 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre						% Stalk Lodging					
	1982	2	3	1982	2 Years	3 Years				1982	2 Years	3 Years			
		Yrs.	Yrs.	Irrig	Not Irrig	Irrig Not Irrig	Irrig	Not Irrig	Irrig	Irrig	Not Irrig	Irrig Not Irrig	Irrig	Not Irrig	Irrig
DeKalb T950 (2X)	24.6	24	--	130.4	102.6	113	86	---	---	5.1	12.1	5	8	--	--
Stauffer Seeds S4402 (2X)	24.6	24	--	155.5	116.9	139	101	---	---	8.0	12.9	7	12	--	--
Funk G-4315 (MSX)	24.7	--	--	134.6	104.0	---	---	---	---	3.7	14.1	--	--	--	--
Payco SX788 (2X)	24.8	26	--	148.5	119.4	140	110	---	---	5.2	9.0	7	11	--	--
Super Crost 2410 (2X)	25.1	26	--	144.5	119.8	138	109	---	---	5.3	9.4	6	7	--	--
*†Stauffer Seeds 606WX (2X)	25.2	--	--	163.5	128.2	---	---	---	---	1.5	16.9	--	--	--	--
Stanton SX10100 (2X)	25.4	--	--	144.9	120.0	---	---	---	---	9.2	12.4	--	--	--	--
*†Great Lakes GL-522 (2X)	25.5	26	--	177.2	133.1	153	118	---	---	0.0	8.9	0	6	--	--
Dairyland DX1105 (2X)	25.5	--	--	151.7	109.0	---	---	---	---	5.8	11.6	--	--	--	--
*†DeKalb T1000 (2X)	25.5	26	--	167.5	125.3	145	107	---	---	3.7	8.3	4	9	--	--
Leader SX490 (2X)	25.5	--	--	152.9	112.6	---	---	---	---	6.3	9.0	--	--	--	--
Kaltenberg KX61 (2X)	25.6	--	--	142.6	110.3	---	---	---	---	5.1	9.4	--	--	--	--
*†Northrup King PX39 (2X)	25.7	--	--	167.6	125.5	---	---	---	---	2.4	5.1	--	--	--	--
*†DeKalb XL-32A (2X)	25.7	27	--	183.3	132.8	154	115	---	---	2.9	8.6	3	7	--	--
Stauffer Seeds S5602 (2X)	25.7	26	--	134.3	104.6	128	97	---	---	3.7	7.7	4	10	--	--
Leader SX510 (2X)	25.9	--	--	135.0	110.9	---	---	---	---	2.3	15.0	--	--	--	--
*†Payco SX844 (2X)	25.9	26	--	169.6	128.7	147	106	---	---	2.2	9.8	2	8	--	--
*†Stauffer Seeds S5650 (2X)	26.0	--	--	155.0	128.4	---	---	---	---	0.0	6.4	--	--	--	--
*†Stauffer Seeds S5260 (2X)	26.1	27	--	183.0	139.3	145	112	---	---	1.5	4.0	2	5	--	--
Golden Harvest XS-436 (2X)	26.4	27	--	158.2	124.1	136	107	---	---	0.8	1.7	5	4	--	--
*†Leader SX495 (2X)	26.5	--	--	166.1	129.9	---	---	---	---	6.0	8.2	--	--	--	--
*†Kaltenberg KX68 (2X)	26.6	27	--	161.8	126.3	144	111	---	---	2.7	6.8	4	4	--	--
Average	23.1	24	24	146.0	113.0	134	102	136	110	3.8	11.4	5	9	7	12
Range	20.2 to 26.6	21 to 27	22 to 27	108.6 to 183.3	83.1 to 139.3	105 to 154	79 to 118	115 to 153	85 to 126	0.0 to 9.2	1.7 to 33.6	0 to 12	4 to 25	4 to 11	6 to 24
Least Significant Difference	1.5	0.9	0.7	13.7	10.8	9	6	7	5	--	--	--	--	--	--

*Significantly better than average yield, irrigated, in 1982.

†Significantly better than average yield, not irrigated, in 1982.

	1982	1981	1980
Planted	May 6	May 2	May 12
Harvested	November 3	November 6	November 11
Soil Type	Montcalm-McBride sandy loam	Montcalm-McBride sandy loam	Montcalm-McBride sandy loam
Previous Crop	Alfalfa	Alfalfa	Alfalfa
Population	21,000	20,850	20,700
Rows	30"	30"	30"
Fertilizer	342-139-139	323-143-143	315-155-155
Irrigation	4 inches	4 inches	3 inches
Soil Type: pH	5.6	5.9	6.9
P	562 (very high)	512 (very high)	528 (very high)
K	251 (high)	284 (high)	290 (high)

Farm Cooperator: Theron Comden, Montcalm Research Farm, Lakeview

County Extension Director: James Crosby, Stanton

Table 18

NORTH CENTRAL MICHIGAN
Oceana County Trial
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 3

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Pride 1169 (2X)	17.9	--	--	80.8	---	---	21.9	--	--
Garno S-85 (2X)	18.2	20	--	94.1	96	---	1.5	5	---
Eastland 238 (MSX)	18.5	--	--	111.1	---	---	9.0	--	--
Payco SX599 (2X)	18.5	--	--	128.4	---	---	5.9	--	--
*Golden Harvest H-2300 (2X)	18.7	--	--	132.7	---	---	2.8	--	--
*Pioneer 3901 (2X)	18.7	20	21	139.7	132	126	10.9	8	6
DeKalb XL-8 (2X)	18.8	--	--	124.4	---	---	10.8	--	--
Funk Exp. 29306 (MSX)	18.9	--	--	105.8	---	---	12.5	--	--
Payco SX431 (2X)	18.9	--	--	98.8	---	---	11.8	--	--
Pioneer 3950 (MSX)	19.1	19	20	105.6	102	98	8.8	18	13
Stauffer Seeds S2202 (2X)	19.2	--	--	108.6	---	---	12.5	--	--
Migro HP-201 (2X)	19.2	20	--	102.1	110	---	9.4	11	---
DeKalb EX-1112 (2X)	19.3	--	--	120.9	---	---	5.0	--	--
Garno S-90 (2X)	19.3	20	21	129.9	130	123	14.7	11	8
Asgrow RX355 (2X)	19.4	20	--	93.4	90	---	13.1	22	--
Pioneer 3958 (2X)	19.4	20	21	101.4	99	98	7.9	13	10
O's Gold 2330 (2X)	19.5	21	--	122.5	122	---	4.3	7	---
*Jacques JX97 (2X)	19.5	--	--	131.7	---	---	7.2	--	--
Funk G-4141A (MSX)	19.6	20	21	98.3	99	106	14.2	10	8
Migro HP-266 (2X)	19.7	--	--	119.5	---	---	6.1	--	--
DeKalb XL-13 (2X)	19.7	--	--	112.0	---	---	8.3	--	--
*Payco SX620 (2X)	19.7	--	--	148.2	---	---	13.7	--	--
Pioneer 3906 (2X)	19.8	20	--	117.9	118	---	5.1	7	---
*Stauffer Seeds S3242 (2X)	19.8	--	--	141.2	---	---	5.9	--	--
*Great Lakes GL-422 (2X)	19.8	20	21	135.8	135	128	14.2	12	10
Migro HP-277 (2X)	19.8	20	--	128.9	123	---	3.5	4	---
Pride 3311 (2X)	19.9	--	--	79.7	---	---	34.8	--	--
*Stauffer Seeds S3306 (2X)	20.2	20	--	132.0	130	---	14.0	14	---
*Great Lakes GL-466 (2X)	20.2	--	--	137.7	---	---	9.0	--	--
*Funk G-4224 (MSX)	20.3	21	--	131.8	130	---	11.0	12	---
Funk G-4256 (3X)	20.4	21	22	123.7	116	109	13.4	10	8
DeKalb T950 (2X)	20.5	21	--	108.9	110	---	4.3	8	---
DeKalb EX-2120 (2X)	20.5	--	--	101.5	---	---	8.7	--	--
DeKalb EX-1213 (2X)	20.6	21	--	93.2	107	---	14.0	18	---
*P.A.G. SX181 (2X)	20.6	--	--	146.4	---	---	4.6	--	--
Stauffer Seeds S3406WX (2X)	20.6	--	--	125.5	---	---	20.7	--	--
Stauffer Seeds S4402 (2X)	21.5	22	--	110.2	121	---	7.2	8	---
DeKalb XL-14AA (2X)	21.5	21	22	125.4	121	122	9.3	9	6
P.A.G. SX189 (2X)	21.5	--	--	106.6	---	---	10.1	--	--
Warwick W966 (MSX)	21.7	--	--	111.6	---	---	11.6	--	--
*Stauffer Seeds S5602 (2X)	21.7	--	--	133.6	---	---	5.0	--	--
Great Lakes GL-477 (2X)	21.8	22	23	128.0	129	132	17.4	13	11
*O's Gold 6880 (2X)	22.1	23	--	135.4	126	---	5.1	14	---
*Great Lakes GL-522 (2X)	22.8	24	--	152.0	139	---	2.7	10	---
*Migro HP-23R (2X)	23.4	24	24	141.3	136	134	9.0	8	6
*DeKalb T1000 (2X)	24.2	24	--	141.7	128	---	13.6	19	---
*P.A.G. SX397 (2X)	26.0	--	--	134.7	---	---	21.2	--	--
Average	20.2	21	22	119.2	119	118	10.4	11	8
Range	17.9	19	20	79.7	90	98	1.5	4	6
	to	to	to	to	to	to	to	to	to
	26.0	24	24	152.0	139	134	34.8	22	13
Least Significant Difference	1.5	1.0	0.8	12.2	8	5	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	May 7	May 4	May 13
Harvested	October 27	November 13	November 15
Soil Type	Arenac and Toisco Loamy sand	Arenac and Toisco Loamy sand	Arenac and Toisco Loamy sand
Previous Crop	Corn	Corn	Corn
Population	21,400	20,900	21,100
Rows	30"	30"	30"
Fertilizer	240-98-117+2n	245-144-111	220-52-127+1% Zn
Irrigation	1 time @ 1"	6 times @ 1"=6 in.	3 times @ 1"=3 in.
Soil Test: pH	7.0	6.3	6.9
	472 (very high)	282 (very high)	237 (very high)
	576 (very high)	380 (very high)	286 (high)

Farm Cooperator: Elmer Gowell, Rothbury

County Extension Director: Ed Strong, Hart

Table 19

NORTHERN MICHIGAN
Grand Traverse County
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 4

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	2	3		2	3		2	3	
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Farm Bureau FBS S-259 (2X)	17.8	19	20	53.7	68	74	56.6	33	26
Northrup King PX11 (2X)	17.8	--	--	51.1	---	---	46.0	--	--
Northrup King PX 14 (2X)	18.2	21	22	60.2	77	83	46.5	27	20
Funk G-4065 (MSX)	18.2	19	20	56.6	68	68	52.4	32	25
Paymaster 1108 (2X)	18.4	--	--	57.9	---	---	35.8	--	--
Warwick T778 (MSX)	18.5	19	--	57.0	73	---	39.9	24	--
Northrup King PX7 (2X)	18.7	--	--	46.4	---	---	68.2	--	--
Pride 1169 (2X)	18.7	20	--	45.8	69	---	79.1	45	--
Farm Bureau FBS 2610 (MSX)	18.8	--	--	51.0	---	---	49.0	--	--
Great Lakes 81203 (2X)	19.0	20	--	62.0	76	---	40.9	24	--
P.A.G. SX111 (2X)	19.2	--	--	48.4	---	---	51.1	--	--
Northrup King PX9144 (2X)	19.4	--	--	56.9	---	---	76.8	--	--
*DeKalb XL-8 (2X)	19.4	23	--	78.9	84	---	24.5	12	--
Northrup King PX419 (3X)	19.5	--	--	54.1	---	---	33.1	--	--
Warwick T722 (3X)	19.6	--	--	49.7	---	---	65.4	--	--
*Pride 2206 (2X)	19.9	23	23	82.2	88	94	25.5	15	12
DeKalb T891 (3X)	20.1	--	--	48.5	---	---	34.6	--	--
*Pioneer 3901 (2X)	20.1	24	25	85.4	97	108	21.5	13	9
Stauffer Seeds S2101WX (2X)	20.1	--	--	56.9	---	---	39.2	--	--
Pride R141 (3X)	20.2	--	--	52.5	---	---	35.3	--	--
Stauffer Seeds S2202 (2X)	20.2	23	--	56.3	72	---	23.0	20	--
*McKenzie 870 (2X)	20.2	24	--	69.1	84	---	20.9	13	--
Jacques JX32 (2X)	20.3	--	--	48.0	---	---	46.8	--	--
*Great Lakes GL-203 (3X)	20.5	21	--	73.4	81	---	29.0	18	--
DeKalb T950 (2X)	20.6	--	--	56.7	---	---	14.0	--	--
*Stauffer Seeds S3242 (2X)	20.7	--	--	79.5	---	---	12.9	--	--
McKenzie 927 (MSX)	20.7	24	--	60.6	72	---	24.6	16	--
Farm Bureau FBS 2630 (2X)	20.8	--	--	57.4	---	---	48.6	--	--
Northrup King PX414 (3X)	20.8	--	--	55.3	---	---	39.8	--	--
Pioneer 3950 (MSX)	20.8	22	23	66.0	80	91	29.2	16	12
Great Lakes GL-344 (2X)	21.0	--	--	66.3	---	---	35.2	--	--
Pioneer 3958 (2X)	21.1	23	25	63.5	82	94	17.5	11	8
Stauffer Seeds S2184 (2X)	21.2	--	--	47.7	---	---	29.9	--	--
Funk G-4085 (3X)	21.2	22	23	63.1	69	77	36.8	26	19
Stauffer Seeds S3306 (2X)	21.3	--	--	61.8	---	---	20.1	--	--
Funk G-4081 (MSX)	21.3	--	--	59.0	---	---	35.1	--	--
Jacques JX47 (2X)	21.5	--	--	53.5	---	---	24.1	--	--
Great Lakes GL-283 (3X)	21.6	23	--	63.3	77	---	36.5	24	--
DeKalb XL-6 (2X)	21.7	--	--	61.2	---	---	34.3	--	--
Farm Bureau FBS S-265 (2X)	22.3	23	23	45.3	66	75	70.6	38	30
DeKalb EX-1118 (3X)	22.4	--	--	60.8	---	---	25.2	--	--
*P.A.G. SX181 (2X)	22.6	--	--	75.1	---	---	20.9	--	--
*Great Lakes GL-422 (2X)	23.0	26	--	76.6	86	---	25.2	16	--
*Stauffer Seeds S4402 (2X)	24.1	--	--	72.1	---	---	14.9	--	--
DeKalb EX-1213 (2X)	24.7	27	--	59.9	74	---	32.8	18	--
Average	20.3	22	23	60.2	77	85	36.8	22	18
Range	17.8	19	20	45.3	66	68	12.9	11	8
	to	to	to	to	to	to	to	to	to
	24.7	27	25	82.2	97	108	79.1	45	30
Least Significant Difference	1.4	1.0	0.9	8.3	6	5	--	--	--

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	May 8	May 13	May 16
Harvested	October 28	November 12	November 6
Soil Type	Coventry-Newaygo Loam	Coventry-Newaygo Loam	Coventry-Newaygo Loam
Previous Crop	Corn	Corn	Corn
Population	20,800	21,000	20,700
Rows	30"	30"	36"
Fertilizer	140-69-105	125-64-60	126-92-60, manure
Soil Test: pH	6.4	6.6	6.3
	536 (very high)	512 (very high)	603 (very high)
	724 (very high)	492 (very high)	554 (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 - 1982, 1981, 1980

Zone 4

Hybrid (Brand-Variety)	% Dry Matter			Tons Per Acre					
				Green Weight			Dry Weight		
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
DeKalb EX-1118 (3X)	37.7	---	---	11.6	---	---	4.4	---	---
P.A.G. SX111 (2X)	36.1	---	---	13.2	---	---	4.8	---	---
DeKalb T891 (3X)	36.0	---	---	10.7	---	---	3.9	---	---
DeKalb XL-6 (2X)	33.4	32.3	31.1	9.4	12.3	12.9	3.2	4.0	4.0
Pioneer 3958 (2X)	32.6	30.7	28.3	15.0	16.4	16.2	4.9	5.0	14.6
Stanton SX1080 (2X)	32.5	---	---	13.0	---	---	4.2	---	---
Funk G-4065 (MSX)	32.2	32.2	31.3	11.8	13.1	12.5	3.8	4.2	3.9
Pride R141 (3X)	32.1	---	---	13.2	---	---	4.3	---	---
Pioneer 3950 (MSX)	31.5	30.6	28.8	13.5	14.9	15.0	4.2	4.5	4.3
Pride 1131 (2X)	31.4	31.5	30.6	11.3	13.6	13.9	3.5	4.2	4.2
Funk G-4085 (3X)	31.2	29.9	29.0	14.0	14.5	14.3	4.4	4.3	4.1
Stauffer Seeds S2101WX (2X)	31.0	---	---	12.2	---	---	3.8	---	---
DeKalb EX-1112 (2X)	30.3	---	---	13.6	---	---	4.1	---	---
Funk G-4081 (MSX)	29.8	---	---	15.5	---	---	4.6	---	---
Stanton SX1085 (2X)	29.6	---	---	10.9	---	---	3.3	---	---
O's Gold 2310 (2X)	28.6	---	---	14.7	---	---	4.2	---	---
Stauffer Seeds 302WX (2X)	28.4	---	---	11.8	---	---	3.3	---	---
P.A.G. SX181 (2X)	27.2	---	---	15.6	---	---	4.2	---	---
Farm Bureau FBS X344 (2X)	26.4	---	---	14.4	---	---	3.8	---	---
Great Lakes GL-283 (3X)	26.3	26.2	---	16.7	18.4	---	4.4	4.8	---
DeKalb XL-8 (2X)	25.5	25.6	---	14.1	16.0	---	3.6	4.1	---
DeKalb T950 (2X)	25.4	---	---	15.2	---	---	3.8	---	---
Farm Bureau FBS X339 (2X)	24.6	---	---	17.4	---	---	4.3	---	---
O's Gold 2321 (2X)	24.6	---	---	15.5	---	---	3.8	---	---
DeKalb XL-13 (2X)	24.4	25.6	25.0	15.1	17.0	15.8	3.7	4.4	4.0
Golden Harvest XS-722 (MSX)	23.8	---	---	16.0	---	---	3.8	---	---
Pioneer 3901 (2X)	23.6	24.1	23.8	17.8	19.7	19.4	4.2	4.7	4.6
Golden Harvest H-2300 (MSX)	23.1	---	---	17.8	---	---	4.1	---	---
Average	29.2	28.8	28.4	13.9	15.5	15.0	4.0	4.4	4.7
Range	23.1	24.1	23.8	9.4	12.3	12.5	3.2	4.0	3.9
	to	to	to	to	to	to	to	to	to
	37.7	32.3	31.3	17.8	19.7	19.4	4.9	5.0	4.6
Least Significant Difference	2.5	1.9	1.2	1.6	1.1	1.0	0.4	0.4	0.3

	1982	1981	1980
Planted	May 7	May 16	May 17
Harvested	September 16	September 21	September 18
Soil Type	Marlette sandy loam	Marlette sandy loam	Marlette sandy loam
Previous Crop	Corn	Corn	Corn
Population	20,500	20,100	20,200
Rows	30"	30"	30"
Fertilizer	108-30-75	128-32-137	123-30-145
Soil test: pH	5.8	6.2	6.4
P	113 (very high)	98 (high)	85 (high)
K	267 (high)	268 (high)	198 (medium)

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, Two, Three Year Averages - 1982, 1981, 1980

Zone 4

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre						% Stalk Lodging		
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Warwick T778 (MSX)	19.7	22	22	54.5	67	66	13.4	11	17			
Farm Bureau FBS S-259 (2X)	20.7	22	22	49.5	76	81	19.8	15	25			
Great Lakes 81203 (2X)	21.5	22	---	60.2	81	---	9.2	10	---			
Farm Bureau FBS 2610 (MSX)	21.5	---	---	73.0	---	---	8.2	---	---			
*P.A.G. SX111 (2X)	21.9	---	---	86.6	---	---	3.9	---	---			
Funk G-4065 (MSX)	22.5	23	24	58.8	78	72	11.7	15	28			
Pride 1122 (2X)	22.5	23	---	66.7	84	---	4.3	4	---			
Eastland 210 (MSX)	23.1	---	---	64.3	---	---	5.8	---	---			
DeKalb XL-6 (2X)	23.4	26	25	52.0	72	72	12.0	7	14			
Paymaster 1108 (2X)	23.7	25	24	52.5	71	77	5.9	6	12			
Warwick T722 (3X)	23.8	---	---	47.4	---	---	24.3	---	---			
Pride 1169 (2X)	24.1	---	---	79.8	---	---	0.7	---	---			
Warwick W844 (MSX)	24.4	25	25	68.1	86	85	8.6	16	22			
P.A.G. 503 (3X)	24.4	---	---	68.8	---	---	0.7	---	---			
Renk RK3 (2X)	24.4	---	---	55.2	---	---	9.3	---	---			

(continued)

Table 21 (continued)

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre						% Stalk Lodging		
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Stauffer Seeds S2184 (2X)	25.1	25	---	60.1	79	---	8.1	9	---			
Great Lakes GL-344 (2X)	25.1	---	---	65.9	---	---	3.5	---	---			
Jacques JX21 (2X)	25.4	---	---	60.9	---	---	2.1	---	---			
Pioneer 3950 (MSX)	25.5	27	27	68.1	92	88	3.6	3	5			
Pride R141 (3X)	26.3	27	26	48.2	80	82	6.5	5	8			
Jacques JX32 (2X)	26.4	---	---	67.9	---	---	5.7	---	---			
DeKalb T891 (3X)	26.4	---	---	49.1	---	---	9.8	---	---			
DeKalb EX-1118 (3X)	26.5	---	---	77.3	---	---	4.2	---	---			
Warwick TX27 (3X)	26.6	---	---	54.0	---	---	5.5	---	---			
Super Crost 1402 (2X)	26.7	---	---	66.6	---	---	5.0	---	---			
*Stauffer Seeds S2101WX (2X)	27.0	26	---	97.1	102	---	2.2	6	---			
Stauffer Seeds S3242 (2X)	27.1	---	---	80.1	---	---	0.0	---	---			
Funk G-4081 (MSX)	27.1	---	---	57.6	---	---	4.4	---	---			
Great Lakes GL-203 (3X)	28.0	27	---	62.2	80	---	6.5	7	---			
Renk RK5 (2X)	29.0	---	---	60.2	---	---	4.2	---	---			
Garno S-85 (2X)	29.6	31	---	70.0	77	---	0.7	2	---			
*Pioneer 3901 (2X)	29.8	32	31	94.8	101	94	2.1	2	5			
Funk G-4085 (3X)	30.2	28	---	69.7	81	---	3.4	5	---			
*Pioneer 3906 (2X)	30.3	---	---	86.0	---	---	0.7	---	---			
Super Crost 1527 (2X)	30.4	---	---	60.2	---	---	2.9	---	---			
Super Crost 1621 (2X)	30.4	---	---	74.5	---	---	0.7	---	---			
*DeKalb XL-8 (2X)	30.5	31	---	97.5	95	---	0.7	1	---			
*DeKalb XL-13 (2X)	30.8	30	29	96.4	97	91	0.0	6	9			
*Great Lakes GL-283 (3X)	30.9	29	---	84.7	97	---	2.8	5	---			
*Renk RK6 (2X)	31.2	---	---	90.0	---	---	2.8	---	---			
Stauffer Seeds S3306 (2X)	31.6	32	---	80.1	94	---	1.4	5	---			
*Stauffer Seeds 302WX (2X)	31.7	31	---	99.8	99	---	2.9	3	---			
Stauffer Seeds S2202 (2X)	32.2	33	---	72.9	81	---	4.4	3	---			
DeKalb EX-1213 (2X)	32.3	34	---	80.8	95	---	5.7	6	---			
Great Lakes GL-422 (2X)	33.0	33	33	80.6	93	92	0.7	1	3			
Garno S-90 (2X)	33.4	33	33	81.9	96	93	3.6	4	6			
*Golden Harvest H-2300 (2X)	34.2	---	---	97.0	---	---	0.0	---	---			
*P.A.G. SX181 (2X)	34.3	---	---	100.7	---	---	0.0	---	---			
*Super Crost 1940 (2X)	34.3	---	---	101.8	---	---	0.0	---	---			
*DeKalb T950 (2X)	35.3	---	---	98.6	---	---	0.7	---	---			
Golden Harvest XS-722 (MSX)	35.4	---	---	69.0	---	---	0.0	---	---			
*Stauffer Seeds S4402 (2X)	35.4	35	---	101.3	97	---	0.7	2	---			
Renk RK18 (2X)	35.7	---	---	69.7	---	---	0.0	---	---			
Average	28.0	28	27	73.2	86	83	4.8	6	13			
Range	19.7	22	22	47.4	67	66	0.0	1	3			
	to	to	to	to	to	to	to	to	to			
	35.7	35	33	101.8	102	94	24.3	16	28			
Least Significant Difference	1.9	1.3	1.0	9.0	7.0	5.0	---	---	---			

*Significantly better than average yield in 1982.

	1982	1981	1980
Planted	May 11	May 21	May 16
Harvested	October 29	November 10	November 7
Soil Type	Onaway fine sandy loam	Onaway fine sandy loam	Onaway sandy loam
Previous Crop	Fallow	Sunflower	Corn
Population	20,800	21,000	21,200
Rows	30"	30"	28"
Fertiliser	110-78-78	156-84-84, manure	46-46-46, chicken manure
Soil Test: pH	6.0	6.5	7.5
P	57 (medium)	43 (medium)	802 (very high)
K	92 (low)	300 (high)	756 (very high)

Farm Cooperators: Steve Gonyea, Ossineke (1982, 1981), Robert Cornell, Posen (1980)

County Agricultural Agent: Bob Dlusam, Alpena

Table 22

NORTHERN MICHIGAN
Alpena County Trial - Silage
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 4

Hybrid (Brand-Variety)	% Dry Matter		Tons Per Acre					
			Green Weight		Dry Weight			
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.
Warwick T778 (MSX)	34.0	33.2	35.0	11.5	15.1	14.5	3.9	4.9
Farm Bureau FBS S-259 (2X)	33.1	31.9	33.5	10.3	14.5	14.8	3.4	4.6
Funk G-4065 (MSX)	31.1	30.3	31.5	13.1	17.2	16.6	4.1	5.1
Warwick T722 (3X)	30.2	---	---	10.4	---	---	3.1	---
DeKalb EX-1118 (3X)	30.1	---	---	11.4	---	---	3.5	---
Great Lakes GL-344 (2X)	29.7	---	---	13.0	---	---	3.8	---
Farm Bureau FBS 2610 (MSX)	29.4	---	---	12.9	---	---	3.8	---
Stauffer Seeds S2184 (2X)	29.2	28.7	---	12.7	16.3	---	3.7	4.6
Pride 1122 (2X)	29.1	28.1	---	9.5	15.9	---	2.7	4.3
Pioneer 3950 (MSX)	29.0	27.1	28.3	11.9	16.8	18.1	3.4	4.4
P.A.G. SX111 (2X)	29.0	---	---	13.1	---	---	3.8	---
Jacques JX32 (2X)	28.4	---	---	12.1	---	---	3.4	---
Stauffer Seeds S2101WX (2X)	28.4	27.1	---	14.6	18.5	---	4.1	4.9
DeKalb XL-6 (2X)	28.3	28.1	29.6	12.0	17.5	17.5	3.4	4.9
Great Lakes GL-203 (3X)	28.2	28.1	---	13.1	17.6	---	3.7	4.9
Pride 1169 (2X)	28.0	---	---	10.8	---	---	3.0	---
Great Lakes 81203 (2X)	27.9	27.8	---	14.1	17.1	---	4.0	4.8
DeKalb T891 (3X)	27.9	---	---	11.9	---	---	3.4	---
Stauffer Seeds 302WX (2X)	27.7	27.8	---	13.7	17.6	---	3.8	4.9
Jacques JX21 (2X)	27.4	---	---	10.5	---	---	2.9	---
Renk RK6 (2X)	27.0	---	---	16.0	---	---	4.3	---
Eastland 210 (MSX)	27.0	---	---	11.1	---	---	3.0	---
Renk RK3 (2X)	27.0	---	---	13.0	---	---	3.5	---
Funk G-4085 (3X)	26.8	27.3	---	17.6	20.2	---	4.7	5.5
Garno S-85 (2X)	26.8	26.5	---	12.7	16.8	---	3.4	4.4
Super Crost 1402 (2X)	26.6	---	---	12.2	---	---	3.3	---
P.A.G. 503 (3X)	26.4	---	---	12.2	---	---	3.2	---
Pride R141 (3X)	26.4	28.2	30.2	12.6	16.2	16.6	3.3	4.6
Paymaster 1108 (2X)	26.2	27.4	29.3	9.8	16.3	16.6	2.6	4.6
Stauffer Seeds S2202 (2X)	26.0	25.3	---	14.2	18.9	---	3.7	4.7
Funk G-4081 (MSX)	26.0	---	---	13.4	---	---	3.5	---
Pioneer 3906 (2X)	26.0	---	---	15.9	---	---	4.1	---
Super Crost 1527 (2X)	26.0	---	---	10.8	---	---	2.8	---
Warwick W844 (MSX)	25.9	26.5	29.8	11.7	16.7	16.8	3.0	4.5
Great Lakes GL-283 (3X)	25.8	25.9	24.5	16.3	21.2	24.5	4.2	5.5
Renk RK18 (2X)	25.7	---	---	15.1	---	---	3.9	---
P.A.G. SX181 (2X)	25.6	---	---	16.0	---	---	4.1	---
DeKalb T950 (2X)	25.4	---	---	16.6	---	---	4.3	---
DeKalb XL-13 (2X)	25.2	25.9	26.2	14.7	20.3	22.2	3.7	5.3
Golden Harvest XS-722 (MSX)	24.9	---	---	16.1	---	---	4.0	---
DeKalb XL-8 (2X)	24.7	24.9	---	17.3	20.6	---	4.3	5.1
DeKalb EX-1213 (2X)	24.7	25.2	---	17.8	21.6	---	4.4	5.4
Super Crost 1940 (2X)	24.6	---	---	16.3	---	---	4.0	---
Super Crost 1621 (2X)	24.5	---	---	15.5	---	---	3.8	---
Renk RK5 (2X)	24.4	---	---	17.0	---	---	4.1	---
Warwick TX27 (3X)	24.3	---	---	13.9	---	---	3.4	---
Great Lakes GL-422 (2X)	24.1	24.4	24.8	19.2	22.6	23.5	4.6	5.5
Garno S-90 (2X)	23.7	24.2	24.7	18.6	12.4	23.4	4.4	5.4
Pioneer 3901 (2X)	22.6	23.1	23.8	17.3	22.4	22.9	3.9	5.2
Stauffer Seeds S4402 (2X)	22.5	23.8	---	17.3	21.3	---	3.9	5.1
Stauffer Seeds S3306 (2X)	22.3	24.0	---	13.8	19.9	---	3.1	4.9
Golden Harvest H-2300 (MSX)	22.1	---	---	17.0	---	---	3.8	---
Stauffer Seeds S3242 (2X)	22.0	---	---	15.9	---	---	3.5	---
Average	26.6	26.9	28.8	13.8	18.4	18.7	3.6	4.9
Range	22.0	23.1	23.8	9.5	14.5	14.5	2.6	4.3
Least Significant Difference	2.2	1.6	1.3	1.5	1.1	1.0	0.5	0.4

	1982	1981	1980
Planted	May 11	May 21	May 16
Harvested	September 16	September 21	September 18
Soil type	Onaway fine sandy loam	Onaway fine sandy loam	Onaway fine sandy loam
Previous crop	Fallow	Sunflowers	Corn
Population	21,300	22,100	21,700
Rows	30"	30"	30"
Fertilizer	110-78-78	156-84-84, manure	46-46-46, chicken manure
Soil test: pH	6.0	6.5	7.5
P	57 (medium)	43 (medium)	602 (very high)
K	92 (low)	300 (high)	756 (very high)

Farm Cooperators: Steve Gonyea, Ossineke (1982, 1981);
Robert Cornell, Posen (1980)

County Agricultural Agent: Bob Dluzen, Alpena

Table 23

NORTHERN MICHIGAN
Alger County Trial - Grain
One Year Averages - 1982

Zone 4

Hybrid (Brand-Variety)	% Moisture		Bushels Per Acre	% Stalk Lodging
	1982	yr.		
*Warwick W778 (MSX)	40.2	---	69.6	32.8
Funk G-4065 (MSX)	43.1	---	63.5	32.5
Warwick T777 (2X)	44.0	---	58.3	30.5
Pride 1122 (2X)	45.5	---	54.2	17.8
Pride 1107N (2X)	45.9	---	40.9	19.5
DeKalb DK-24F (3X)	47.4	---	45.0	48.2
Pioneer 3950 (MSX)	48.1	---	66.5	5.5
DeKalb XL-6 (2X)	48.3	---	58.3	13.8
*DeKalb XL-13 (2X)	51.2	---	70.6	2.6
*Pioneer 3906 (2X)	51.8	---	71.6	11.4
DeKalb XL-8 (2X)	54.0	---	70.6	10.6
Kaltenberg KX390 (3X)	58.1	---	49.1	22.1
Pioneer 3901 (2X)	62.0	---	60.4	9.7
Average	51.1	---	59.9	19.8
Range	40.2 to 62.0	---	40.9 to 71.6	2.6 to 48.2
Least Significant Difference	4.4	---	7.3	---

*Significantly better than average yield in 1982.

Planted	May 11
Harvested	October 26
Soil Type	Trenary Loam
Previous Crop	Alfalfa
Population	19,300
Rows	36"
Fertilizer	130-75-75
Soil Test: pH	7.2
P	150 (very high)
K	178 (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
Alger County Trial - Silage
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 4

Hybrid (Brand-Variety)	% Dry Matter		Tons Per Acre					
			Green Weight		Dry Weight			
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.
DeKalb DK-24F (3X)	33.0	36.6	---	13.2	13.8	---	4.4	5.0
Funk G-4065 (MSX)	32.0	36.8	36.7	20.3	17.1	17.7	6.5	6.2
Pioneer 3950 (MSX)	31.2	34.0	33.6	23.5	18.9	19.8	7.3	6.3
Warwick T778 (MSX)	31.1	36.5	---	19.6	16.6	---	6.1	6.0
Warwick T777 (2X)	30.9	---	---	19.8	---	---	6.1	---
Pride 1122 (2X)	29.9	32.3	---	20.1	17.9	---	6.0	5.8
DeKalb XL-6 (2X)	29.2	33.6	33.0	19.4	17.0	18.2	5.7	5.7
Pride 1107N (2X)	28.0	---	---	14.6	---	---	4.1	---
Kaltenberg KX390 (3X)	27.8	---	---	21.0	---	---	5.8	---
DeKalb XL-8 (2X)	27.4	30.1	---	25.0	20.2	---	6.9	6.0
DeKalb XL-13 (2X)	27.2	29.9	---	22.6	19.6	---	6.1	5.8
Pioneer 3906 (2X)	26.8	---	---	24.2	---	---	6.5	---
Pioneer 3901 (2X)	25.3	28.0	29.1	23.5	20.7	21.6	5.9	5.7
Average	29.2	33.0	33.1	20.5	17.9	19.3	6.0	5.8
Range	25.3 to 33.0	28.0 to 36.8	29.1 to 36.7	13.2 to 25.0	13.8 to 20.7	17.7 to 21.6	4.1 to 7.3	5.0 to 6.6
Least Significant Difference	2.4	2.0	2.0	2.2	1.7	1.2	0.8	0.8

(continued)

Table 24 (continued)

	1982	1981	1980
Planted	May 11	May 14	May 2
Harvested	October 11	October 23	September 14
Soil Type	Trenary loam	Chatham stoney loam	Chatham stoney loam
Previous Crop	Alfalfa	Oats	Sunflower
Population	18,900	20,800	19,700
Rows	36"	36"	36"
Fertilizer	130-75-75	108-75-75	115-75-75
Soil Test: pH	7.2	7.7	---
P	160 (very high)	152 (very high)	---
K	176 (medium)	188 (medium)	---

Farm Operator: Michigan State University, Chatham

County Extension Director: Jack Middleton, Munising

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

Table 25

NORTHERN MICHIGAN
Menominee County Trial - Grain
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 4

Hybrid (Brand-Variety)	% Moisture			Bushels Per Acre			% Stalk Lodging		
	1982	2 yr.	3	1982	2 yr.	3	1982	2 yr.	3
Funk G-4065 (MSX)	28.7	27	27	113.5	98	110	7.5	5	14
Garno S-69 (2X)	28.8	27	--	99.3	84	---	29.5	16	--
Warwick T778 (MSX)	29.1	26	25	91.1	77	91	0.0	1	12
Garno S-73 (2X)	29.4	28	--	132.4	99	---	0.0	1	--
Jung 2220 (2X)	30.1	--	--	104.7	---	---	0.0	--	--
*Pride 1131 (2X)	30.6	30	29	142.8	105	119	5.6	4	8
Eastland 210 (MSX)	30.8	--	--	109.8	---	---	4.3	--	--
Warwick T722 (3X)	31.5	--	--	106.3	---	---	21.3	--	--
Pride R141 (2X)	31.9	--	--	102.3	---	---	2.4	--	--
Funk G-4085 (3X)	32.0	30	31	121.6	101	102	2.1	2	9
Pioneer 3958 (2X)	32.1	33	34	105.2	99	110	0.0	1	4
Dairyland DX285 (3X)	32.2	--	--	122.7	---	---	0.0	--	--
DeKalb XL-1118 (3X)	32.7	--	--	100.7	---	---	35.4	--	--
Jeske J8A (2X)	32.8	--	--	90.6	---	---	4.8	--	--
DeKalb XL-11 (2X)	33.1	34	33	117.1	100	113	2.8	2	5
Dairyland DX1085 (2X)	33.1	--	--	121.6	---	---	0.0	--	--
Stauffer Seeds S2184 (2X)	33.2	31	--	110.9	93	---	4.8	4	--
Jacques JX21 (2X)	33.4	--	--	114.7	---	---	0.0	--	--
Dairyland DX1082 (2X)	33.6	--	--	108.5	---	---	7.2	--	--
Great Lakes GL-344 (2X)	34.1	--	--	89.3	---	---	0.0	--	--
Jeske SX-200 (2X)	34.2	--	--	121.2	---	---	0.0	--	--
Garno S-85 (2X)	34.3	--	--	127.6	---	---	2.4	--	--
Pioneer 3950 (MSX)	34.5	33	32	124.1	103	115	2.3	2	2
Dairyland DX1088 (2X)	34.5	--	--	104.4	---	---	4.8	--	--
Pride 1169 (2X)	34.7	33	--	113.6	107	---	0.0	1	--
DeKalb XL-8 (2X)	34.8	37	--	128.5	116	---	0.0	0	--
Garno S-90 (2X)	34.9	38	--	127.6	111	---	4.6	3	--
Dairyland DX1094 (2X)	34.9	--	--	129.9	---	---	0.0	--	--
Jung 2350 (2X)	34.9	--	--	128.1	---	---	0.0	--	--
Stauffer Seeds S2101WX (2X)	35.0	35	--	117.8	92	---	6.9	4	--
Kaltenberg KX390 (3X)	35.0	--	--	111.6	---	---	8.9	--	--
Kaltenberg KX33 (2X)	35.1	--	--	116.8	---	---	0.0	--	--
*Dairyland DX1090 (2X)	35.2	--	--	136.3	---	---	2.1	--	--
*Funk G-4141A (MSX)	35.3	--	--	140.7	---	---	0.0	--	--
Funk G-4081 (MSX)	35.5	--	--	133.5	---	---	0.0	--	--
*Stauffer Seeds S3242 (2X)	35.6	--	--	147.8	---	---	0.0	--	--
Jung 2390 (2X)	36.0	37	--	130.9	103	---	4.4	3	--
*Pioneer 3906 (2X)	37.1	38	37	139.5	123	136	0.0	1	2
*Pioneer X7064 (2X)	37.2	--	--	140.8	---	---	5.3	--	--
*DeKalb XL-13 (2X)	37.4	38	38	136.0	101	121	7.4	4	7
*Pioneer 3901 (2X)	37.4	39	38	151.4	140	153	0.0	0	3
Stauffer Seeds 302WX (2X)	37.6	37	36	111.8	96	111	2.4	2	6
*Stauffer Seeds S3306 (2X)	37.8	39	--	136.0	114	---	0.0	0	--
*Kaltenberg KX55 (2X)	38.1	--	--	176.2	---	---	4.5	--	--
*Jung 2420 (2X)	38.4	--	--	139.4	---	---	0.0	--	--
*Stauffer Seeds S4402 (2X)	38.6	42	--	178.5	133	---	0.0	1	--
Average	34.2	34	33	122.0	104	116	4.0	3	7
Range	28.7 to 38.6	26 to 42	25 to 38	89.3 to 178.5	77 to 140	91 to 153	0.0 to 35.4	0.0 to 16	2 to 14
Least Significant Difference	3.2	2	1.7	13.2	10	7	---	--	--

	1982	1981	1980
Planted	May 7	May 1	April 30
Harvested	October 5	October 7	September 29
Soil Type	Onaway loam	Onaway loam	Onaway loam-sandy loam
Previous Crop	Beans	Corn	Corn
Population	21,100	18,000	21,000

(continued)

Table 25 (continued)

Rows	30"	30"	30"
Fertilizer	148-100-100	145-55-55	122-77-77, 15 tons manure
Soil Test: pH	6.9	7.4	---
P	38 (low)	53 (medium)	---
K	168 (medium)	288 (high)	---

Farm Cooperators: Streffling Farms, Stephenson (1982); Nick Thoney, Daggett (1981, 1980)

County Extension Director: Richard A. Breyer, Stephenson

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

Table 26

NORTHERN MICHIGAN
Menominee County Trial - Silage
One, Two, Three Year Averages - 1982, 1981, 1980

Zone 4

Hybrid (Brand-Variety)	Dry Matter		Green Weight			Tons Per Acre	Dry Weight		
	2	3	2	3		2	3		
	1982	yr.	yr.	1982	yr.	yr.	1982	yr.	yr.
Warwick T778 (MSX)	52.8	51.9	51.8	10.9	10.1	12.1	5.6	5.2	6.2
Great Lakes GL-344 (2X)	45.3	--	--	13.9	---	---	6.3	--	--
Warwick T722 (3X)	45.3	--	--	14.6	---	---	6.6	--	--
Garno S-69 (2X)	44.9	45.4	--	20.2	15.0	---	8.9	6.7	--
Eastland 210 (MSX)	43.0	--	--	17.1	---	---	7.4	--	--
Stauffer Seeds S2184 (2X)	42.5	46.2	--	13.9	12.0	---	5.9	5.4	--
Dairyland DX-285 (3X)	40.9	--	--	19.2	---	---	7.7	--	--
Pioneer 3958 (2X)	40.2	42.6	43.3	17.9	14.4	16.0	7.2	6.0	6.8
Pride 1169 (2X)	40.0	41.0	--	19.1	15.3	---	7.6	5.7	--
DeKalb XL-11 (2X)	38.7	41.3	41.7	20.2	15.7	16.6	7.8	6.3	6.8
Jacques JX21 (2X)	38.4	--	--	16.4	---	---	6.3	--	--
Jeske SX-200 (2X)	38.2	--	--	16.7	---	---	6.2	--	--
Kaltenberg KX33 (2X)	37.7	--	--	15.8	---	---	5.9	--	--
Jung 2350 (2X)	37.7	--	--	20.0	---	---	7.5	--	--
Funk G-4065 (MSX)	37.6	42.3	43.7	22.2	16.3	16.0	8.3	6.6	6.8
Pioneer X7064	37.6	--	--	24.3	---	---	9.1	--	--
Dairyland DX1082 (2X)	37.5	--	--	17.0	---	---	6.1	--	--
Funk G-4085 (3X)	37.4	41.7	41.0	18.7	14.2	15.0	7.0	5.7	6.0
Pioneer 3950 (MSX)	37.3	41.1	43.6	19.2	14.5	16.0	7.1	5.7	6.9
Dairyland DX1088 (2X)	36.7	--	--	20.0	---	---	7.4	--	--
Jeske J8A (2X)	36.5	--	--	16.7	---	---	6.0	--	--
Stauffer Seeds 302WX (2X)	36.4	38.2	39.5	21.0	16.7	17.8	7.5	6.2	6.9
Kaltenberg KX390 (3X)	36.4	--	--	21.6	---	---	7.9	--	--
Pride R141 (3X)	36.2	--	--	19.1	---	---	6.9	--	--
Stauffer Seeds S4402 (2X)	36.1	39.5	--	26.8	20.7	---	9.6	7.8	--
DeKalb XL-13 (2X)	36.1	40.0	39.2	24.6	19.1	20.8	8.9	7.3	7.9
DeKalb XL-8 (2X)	36.0	40.5	--	22.3	15.7	---	8.0	5.9	--
Stauffer Seeds S2101WX (2X)	35.6	40.3	--	17.8	13.1	---	6.3	5.1	--
Pride 1131 (2X)	35.6	41.3	43.3	19.1	15.4	16.3	6.8	6.1	6.9
Dairyland DX1085 (2X)	35.6	--	--	16.6	---	---	5.9	--	--
Garno S-73 (2X)	35.5	41.2	--	21.1	16.5	---	7.5	6.4	--
Jung 2220 (2X)	35.1	--	--	15.3	---	---	5.4	--	--
Stauffer Seeds S3242 (2X)	35.0	--	--	22.5	---	---	7.9	--	--
Kaltenberg KX55 (2X)	35.0	--	--	25.2	---	---	8.8	--	--
Funk G-4141A (MSX)	34.7	--	--	22.3	---	---	7.7	--	--
Jung 2420 (2X)	34.5	--	--	19.5	---	---	6.9	--	--
Garno S-85 (2X)	34.3	--	--	21.8	---	---	7.5	--	--
DeKalb EX-1118 (3X)	34.2	--	--	18.0	---	---	6.1	--	--
Funk G-4081 (MSX)	34.1	--	--	18.1	---	---	6.0	--	--
Dairyland DX1094 (2X)	34.1	--	--	19.7	---	---	6.7	--	--
Stauffer Seeds S3306 (2X)	33.7	38.3	--	22.5	19.1	---	7.6	6.8	--
Garno S-90 (2X)	33.7	38.8	--	24.6	20.2	---	8.3	7.4	--
Jung 2390 (2X)	33.7	37.8	--	20.8	16.0	---	7.0	5.8	--
Pioneer 3906 (2X)	33.1	39.0	43.9	19.1	14.8	18.3	6.3	5.4	8.2
Pioneer 3901 (2X)	31.2	33.1	35.5	25.4	19.3	20.6	7.9	6.2	7.3
Dairyland DX1090 (2X)	30.0	--	--	17.0	---	---	5.1	--	--
Average	37.2	41.0	42.3	19.5	15.9	16.8	7.1	6.0	6.9
Range	30.0 to 52.8	33.1 to 51.9	35.5 to 51.8	10.9 to 26.8	10.1 to 20.7	12.1 to 20.8	5.1 to 9.6	5.1 to 7.8	6.0 to 8.2
Least Significant Difference	3.9	3	2	2.1	1.6	1.5	0.9	0.8	0.6

	1982	1981	1980
Planted	May 7	May 1	April 30
Harvested	September 16	September 16	September 19
Soil Type	Onaway loam	Onaway loam	Onaway loam-sandy loam
Previous Crop	Beans	Corn	Corn
Population	19,900	18,000	21,000
Rows	30"	30"	30"
Fertilizer	148-100-100	145-55-55	122-77-77, 15 tons manure
Soil Test: pH	6.9	7.4	---
P	38 (low)	53 (medium)	---
K	168 (medium)	288 (high)	---

Farm Cooperators: Streffling Farms, Stephenson (1982); Nick Thoney, Daggett (1981, 1980)

County Extension Director: Richard A. Breyer, Stephenson

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

Table 27

Index for 394 hybrids entered as 2,414 entries in the 1982 Michigan Corn Performance Trials. Numbers within parentheses refer to table numbers in which the hybrid appears. (2X) indicates a single-cross hybrid, (3X) indicates a three-way hybrid, (4X) indicates a double-cross hybrid, (MSX) indicates a modified single cross and (Sp.) indicates a special-cross hybrid. Company names used in association with hybrid numbers refer to the brand and the numbers are the variety (hybrid) designation.

A	The Andersons, Maumee, Ohio 43537	
	Andersons SSE (2X) (7,8,9,10,11,12,13,14,15)	
	Andersons SSA (2X) (1,2,3,7)	
B	Asgrow Seed Co., Kalamazoo, Michigan 49001	
	Asgrow RX40 (2X) (11,12,13,14,15,16,17,18)	
	Asgrow RX355 (2X) (11,12)	
C	Asgrow RX511 (2X) (6,9,10,11,12,13)	
	Bayless Hybrids, Inc., Bluffton, Indiana 46714	
	Bayless SX440 (2X) (3)	
D	Bayless SX622 (2X) (3)	
	Beck's Hybrids, Atlanta, Indiana 46031	
	Beck's 40X (2X) (2,5,6)	
E	Beck's 45X (2X) (2,3,4,5,6)	
	Beck's 49X (2X) (4,5)	
	Bo-Jac Hybrid Corn Co., Mt. Pleasant, Illinois 62548	
F	Bo-Jac 14 (2X) (1,3,5,6)	
	Bo-Jac 214 (2X) (2,4)	
	Bo-Jac 370 (2X) (2,4)	
G	Cargill Seeds, Minneapolis, Minnesota 55440	
	Cargill 436 (3X) (2,3,4,5)	
	Cargill 805 (2X) (4,15)	
H	Cargill 810 (2X) (11,12,14,15)	
	Cargill 834 (2X) (4,9,10,11,12,14,15)	
	Cargill 861 (2X) (1,2,3,4,5)	
I	Crow's Hybrid Corn Co., Milford, Illinois 60953	
	Crow's 199 (2X) (1,4,5)	
	Crow's 430 (2X) (5)	
J	Custom Farm Seed, Mokena, Illinois 60954	
	CFS 1450 (2X) (3,4,5,7,8)	
	CFS 2004 (2X) (8,11,12)	
K	CFS W3610 (2X) (4,5,7,8,11,12)	
	CFS W4000 (2X) (5)	
	CFS 4003 (2X) (3,4)	
L	CFS 4004 (2X) (7,8,11,12)	
	Dairyland Seed Co., West Bend, Wisconsin 53095	
	Dairyland DX1003 (2X) (7,8,9,10,11,12,13,14,15,16,17)	
M	Dairyland DX1006 (2X) (1,2,3,4,6,7,8,9,10,11,12,13,14,15,16,17)	
	Dairyland DX1007 (2X) (1,2,3,4,5,7,8,9,10,11,12,14,15)	
	Dairyland DX1007B (2X) (1,3,4,5,8,13,14,15,14,15)	
N	Dairyland DX1008 (2X) (1,2,4,5,6,7,9,10,14,15)	
	Dairyland DX1012 (2X) (1,4)	
	Dairyland DX1016 (2X) (2,3)	
O	Dairyland DX1017 (2X) (1,2,3)	
	Dairyland DX1082 (2X) (25,26)	
	Decatur Seed & Supply Co., Decatur, Michigan 49045	
P	Decatur 252 (3X) (5)	
	Decatur 2570 (2X) (3,5,7,8)	
	DeKalb XL-6 (2X) (20,21,22,23,24,25)	
Q	DeKalb EX-1213 (2X) (9,10,17,18,19,20,21,22,23,24,25)	
	DeKalb EX-1615 (2X) (7,8,9,10,11,12,13,14,15,16,17)	
	DeKalb EX-2120 (2X) (1,2,3,6,7,8,9,10,11,12,13,14,15,16,17,18)	
R	DeKalb EX-2929 (2X) (1,2,3,4,5,7,8,9,10,13)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
S	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
T	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
U	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
V	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
W	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
X	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
Y	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
Z	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	
	DeKalb EX-4040 (2X) (1,2,3,4,5,6,7,8,9,10)	

Great Lakes GL-466 (2X) (2,3,6,7,8,9,10,11,12,13,14,15,16,17,18)
 Great Lakes 81203 (2X) (19,21,22)
 Gries Seed Farms, Inc., Fremont, Ohio 43420
 Gries GSF X500 (2X) (1,2,3,7,9,10,11,12,13,16)
 Jacques Seed Co., Prescott, Wisconsin 54021
 Jacques JX21 (2X) (21,22,25,26)
 Jacques JX32 (2X) (19,21,22)
 Jacques JX47 (2X) (19)
 Jacques JX97 (2X) (7,8,9,10,11,12,13,14,15,16,17,18)
 Jeske, Hortonville, Wisconsin 54944
 Jeske J8A (2X) (25,26)
 Jung Farms, Inc., Randolph, Wisconsin 53596
 Jung 2220 (2X) (25,26)
 Jung 2250 (2X) (25,26)
 Kaitenberg Seed Farms, Waukegan, Wisconsin 53597
 Kaitenberg KX33 (2X) (25,26)
 Kaitenberg KX34A (2X) (11,12,14,15,16)
 Kaitenberg KX35 (2X) (11,12,13,14,15,16,17,18,25,26)
 Kaitenberg KX38 (2X) (9,10,13,14,15)
 Kaitenberg KX61 (2X) (4,9,10,11,12,13,14,15,16,17)

King Grain (Michigan) Inc., Frankenthuth, Michigan 48734
 Pride R1A1 (3X) (19,20,21,22,25,26)
 Pride R319 (3X) (11,12,13,14,15)
 Pride R107N (2X) (23,24)
 Pride R122 (2X) (21,22,23,24)
 Pride R131 (2X) (20,25,26)
 Pride R169 (2X) (11,12,14,15,16,18,21,22,25,26)
 Pride R206 (2X) (19)
 Pride R311 (2X) (5,18)
 Leader Seeds, Inc., Celina, Ohio 45822
 Leader SX475 (2X) (11,12,17)
 Leader SX480A (2X) (11,12)
 Leader SX490 (2X) (1,2,3,5,6,11,12,17)
 Leader SX495 (2X) (1,2,3,5,6,7,11,12,17)
 Leader SX505 (2X) (5,6)
 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 LX3490 (2X) (13,14,15,16)
 Lynks LX4040 (2X) (13,14,15,16)
 Lynks LX4075 (2X) (1,3,5,6,7,9,10,13,14,15,16)
 Lynks LX4100 (2X) (1,3,4,5,6,7,9,10,13,14,15,16)
 McKenzie Seed Farm, Breckenridge, Michigan 48615
 McKenzie 870 (2X) (16,17,19)
 McKenzie 927 (MSX) (16,17,19)
 Michigan Hybrid Seed Co., Mason, Michigan 48854
 Wolverine W126 (2X) (8,11,12,16)
 Wolverine W155 (2X) (14,15,16)
 Wolverine W166 (2X) (4,7,8,11,12,14,15,16)

North American Plant Breeders, Migro Division, Migro HP-23K (2X) (18)
 Migro HP-201 (2X) (18)
 Migro HP-266 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
 Migro HP-277 (2X) (1,3,4,5,6,7,11,12,13,14,15,16,17,18)
 Migro HP-360 (2X) (1,3,4,6,9,10,13,14,15)

Northrup King Co., New Hope, Minnesota 55427
 Northrup King FK7 (2X) (19)
 Northrup King FK449 (3X) (7,16,17)

Payco Seeds, Dassel, Minnesota 55325
 Payco SX431 (2X) (11,12,13,14,15,16,17,18)
 Payco SX599 (2X) (7,8,9,10,11,12,13,14,15,16,17,18)
 Payco SX620 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
 Payco SX860 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
 Payco SX900 (2X) (1,2,3,4,5,6)
 Paymaster Seeds, Monticello, Illinois 61856
 Paymaster 1108 (2X) (19,21,22)
 Paymaster 2990 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17)
 Paymaster 4660 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15)

Pioneer Hi-Bred International, Inc., Tipton, Indiana 46072
 Pioneer 3535 (2X) (1,2,3,5)
 Pioneer 3541 (2X) (1,2,3,5,9,10)
 Pioneer 3572 (2X) (1,2,3,4,5)
 Pioneer 3744 (2X) (1,2,3,4,5,6,9,10)
 Pioneer 3744 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17)
 Pioneer 3747 (2X) (1,2,3,5,9,10)
 Pioneer 3780 (2X) (1,2,3,4,5,6,7,8,9,10,13,16,17)
 Prairie Stream Hybrids, Inc., Frankfort, Indiana 46041
 Prairie Stream SX33 (2X) (5)
 Prairie Stream SX34 (2X) (5)
 Pro-Seed, Inc., Blaisfield, Michigan 49228
 Hyland HL-2428 (2X) (11,12,13,14,15,16,17)
 Hyland HL-2440 (2X) (7,8,9,10,11,12,13,14,15,16,17)
 Hyland HL-2454 (2X) (7,8,9,10,11,12,13,14,15,16,17)
 Hyland HL-2725 (2X) (1,2,3,4,6,7,9,10,11,12,13)

Renk Seed Co., Sun Prairie, Wisconsin 53590
 Renk RK3 (2X) (21,22)
 Renk RK5 (2X) (14,15,21,22)
 Renk RK6 (2X) (14,15,21,22)
 Renk RK18 (2X) (6,7,9,10,11,12,14,15,21,22)
 Rupp Seed Farm, Wauseon, Ohio 43567
 Rupp XRL591 (2X) (1,2,3,4,5,6,7,8)
 Rupp XRL620 (2X) (1,2,3,4,5,6,7,8)
 Rupp XRL624 (2X) (1,2,3,4,5,6,7,8)
 Rupp XRL625 (2X) (1,2,3,4,5,6,7,8)
 Seedway, Inc., Hall, New York 14463
 Eastland 210 (MSX) (16,21,22,25,26)
 Eastland 238 (MSX) (16,17,18)
 Select Seed Hybrids, Camden, Indiana 46917
 Select 2440 (2X) (7)
 Select 2600 (2X) (7)
 Select 3222 (2X) (2,4,7)
 Select 3300 (2X) (2,3,4,5,7)
 Sohigro Service Co., Vistron Corp., Lima, Ohio 45802
 Sohigro 35 (2X) (1,13,14,15)
 Sohigro 39 (2X) (1,13,14,15)
 Sohigro 48 (2X) (1)

Sommer Bros. Seed Co., Pekin, Illinois 61554
 Golden Harvest SX436 (2X) (1,2,3,6,13,17,18)
 Golden Harvest SX679 (2X) (6,9,10)
 Golden Harvest SX722 (MSX) (20,21,22)
 Golden Harvest H-2300 (MSX) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,18,20,21,22)
 Golden Harvest H-2380 (2X) (4,6,14,15,16,17)

Stanton Seed & Supply Co., Inc., Stanton, Michigan 48888
 Stanton SX1080 (2X) (20)
 Stanton SX1085 (2X) (20)
 Payco SX788 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
 Payco SX824 (2X) (1,2,3,4,5,6)
 Payco SX844 (2X) (1,2,3,4,5,6,7,8,9,10,13,17)
 Payco SX860 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
 Payco SX900 (2X) (1,2,3,4,5,6)
 Paymaster 4790 (2X) (1,2,3,4,5,6)
 Paymaster 5990 (2X) (3)

Golden Harvest H-2440 (2X) (1,2,3,4,5,6,7,9,10)
 Golden Harvest H-2448 (2X) (1,2,3,4,5,7,9,10,13,14,15)
 Golden Harvest H-2499 (2X) (1,2)
 Golden Harvest H-2500 (2X) (1,2,3,5,9,10,11,12,14,15)
 Golden Harvest H-2535 (2X) (1)
 Rupp XRL639 (2X) (1,2,3,4,5,6,7,8)
 Rupp XRL690 (2X) (1,2,3,4,5,6,7,8)
 Rupp XRL780 (2X) (1,2,3,4,5,6,7,8)
 Eastland 248 (MSX) (7,8,9,10)
 Select 4700 (2X) (1,2,3,4,5)
 Select 4800 (2X) (1,3,5)
 Select 5188 (2X) (3,5)
 Sohigro Exp. 121 (2X) (13,14,15)
 Sohigro Exp. 222 (2X) (1)

Stanton Seed & Supply Co., Inc., Stanton, Michigan 48888
 Stanton SX1095 (2X) (7,11,12,13,14,15,16,17)
 Payco SX788 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
 Payco SX824 (2X) (1,2,3,4,5,6)
 Payco SX844 (2X) (1,2,3,4,5,6,7,8,9,10,13,17)
 Payco SX860 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
 Payco SX900 (2X) (1,2,3,4,5,6)
 Paymaster 4790 (2X) (1,2,3,4,5,6)
 Paymaster 5990 (2X) (3)

Golden Harvest H-2440 (2X) (1,2,3,4,5,6,7,9,10)
 Golden Harvest H-2448 (2X) (1,2,3,4,5,7,9,10,13,14,15)
 Golden Harvest H-2499 (2X) (1,2)
 Golden Harvest H-2500 (2X) (1,2,3,5,9,10,11,12,14,15)
 Golden Harvest H-2535 (2X) (1)
 Rupp XRL639 (2X) (1,2,3,4,5,6,7,8)
 Rupp XRL690 (2X) (1,2,3,4,5,6,7,8)
 Rupp XRL780 (2X) (1,2,3,4,5,6,7,8)
 Eastland 248 (MSX) (7,8,9,10)
 Select 4700 (2X) (1,2,3,4,5)
 Select 4800 (2X) (1,3,5)
 Select 5188 (2X) (3,5)
 Sohigro Exp. 121 (2X) (13,14,15)
 Sohigro Exp. 222 (2X) (1)

Stanton Seed & Supply Co., Inc., Stanton, Michigan 48888
 Stanton SX1095 (2X) (7,11,12,13,14,15,16,17)
 Payco SX788 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
 Payco SX824 (2X) (1,2,3,4,5,6)
 Payco SX844 (2X) (1,2,3,4,5,6,7,8,9,10,13,17)
 Payco SX860 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
 Payco SX900 (2X) (1,2,3,4,5,6)
 Paymaster 4790 (2X) (1,2,3,4,5,6)
 Paymaster 5990 (2X) (3)

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Northrup King PX11 (2X) (19)
 Northrup King PX14 (2X) (9,10,11,12,
 14,15,19)
 Northrup King PX37 (2X) (1,4,7,9,10,
 16,17)
 Northrup King PX39 (2X) (1,3,4,5,9,10,
 13,14,15,16,17)
 Northrup King PX74 (2X) (3,5)
 Northrup King PX414 (3X) (19)
 Northrup King PX419 (3X) (19)
 O's Gold Seed Co., Parkersburg, Iowa 50665
 O's Gold 1107 (2X) (11,12)
 O's Gold 1111 (2X) (8)
 O's Gold 1170A (2X) (1,2,3,4,6,7,9,10,
 13)
 O's Gold 2310 (2X) (14,15,16,20)
 O's Gold 2321 (2X) (11,12,14,15,20)
 P.A.G. Seeds, Minneapolis, Minnesota 55440
 P.A.G. SX111 (2X) (11,12,19,20,21,22)
 P.A.G. SX177 (2X) (11,12,13,14,15)
 P.A.G. SX181 (2X) (3,4,5,6,7,8,9,10,
 11,12,13,14,15,16,17,18,19,20,21,22)
 P.A.G. SX189 (2X) (6,8,16,17,18)
 Roy W. Parker & Sons, Inc., Kimmell, Indiana 46760
 Parker 29 (2X) (3)
 Parker 32 (2X) (3)
 Northrup King PX485 (3X) (16,17)
 Northrup King PX9144 (2X) (4,7,9,10,11,12,
 13,14,15,19)
 Northrup King PX9288 (2X) (1,3,5,7,9,10,
 11,12,13,14,15,16,17)
 Northrup King PX9353 (2X) (1,3)
 Northrup King PX9415 (2X) (3,4,9,10,17)
 Northrup King PX9454 (2X) (1,3,4,5)
 Northrup King PX9527 (2X) (1,3)
 O's Gold 2330 (2X) (11,12,14,15,18)
 O's Gold 5500A (2X) (1)
 O's Gold 6880 (2X) (1,2,7,9,10,13,16,18)
 O's Gold 6882 (2X) (1,2,3,4,5,6,8,9,10)
 O's Gold EXP.24501 (2X) (5,6)
 P.A.G. SX249 (2X) (3,5,6)
 P.A.G. SX277 (2X) (2)
 P.A.G. SX397 (2X) (2,3,4,5,6,7,8,9,10,18)
 P.A.G. 503 (3X) (21,22)
 Northrup King PX1090 (2X) (11,12,13,14,15,16,
 17)
 Stauffer Seeds, Madison, Wisconsin 53711
 Stauffer Seeds 302WX (2X) (20,21,22,25,26)
 Stauffer Seeds 605WX (2X) (14,15)
 Stauffer Seeds 606WX (2X) (1,2,3,4,5,7,
 8,9,10,17)
 Stauffer Seeds S2101WX (2X) (6,19,20,
 21,22,25,26)
 Stauffer Seeds S2202 (2X) (16,17,18,19,21,
 22)
 Stauffer Seeds S3242 (2X) (6,7,8,9,10,11,
 12,13,14,15,17,18,19,21,22,25,26)
 Stauffer Seeds S3306 (2X) (6,8,9,10,11,
 12,13,14,15,16,17,18,19,21,22,25,26)
 Stauffer Seeds S3406WX (2X) (8,11,12,13,
 14,15,16,18)
 Voris Seeds, Inc., Windfall, Indiana 46076
 Voris Exp. 0064 (2X) (1,3,6,9,10,13)
 Voris Exp. 1007 (2X) (5)
 Voris V2331 (2X) (6,9,10,11,12,13)
 Voris V2381 (2X) (11,12)
 Stanton SX10100 (2X) (7,11,12,13,14,
 15,16,17)
 Stauffer Seeds S4402 (2X) (3,4,5,6,
 7,8,9,10,11,12,13,14,15,16,17,
 18,19,21,22,25,26)
 Stauffer Seeds S5260 (2X) (1,2,3,4,
 5,7,8,9,10,11,12,13,14,15,16,17)
 Stauffer Seeds S5602 (2X) (1,2,3,4,
 5,6,7,8,9,10,11,12,13,14,15,16,
 17,18)
 Stauffer Seeds S5650 (2X) (1,2,3,4,
 5,6,7,8,9,10,11,12,13,14,15,16,17)
 Stauffer Seeds S6389 (2X) (1,2,3,4,5,
 6,7,9,10,11,12,13)
 Stauffer Seeds S6595 (2X) (1,2,3,4,
 5)
 Stauffer Seeds S6586 (2X) (2,3,4,5)
 Voris V2411 (2X) (1,3,4,6,9,10,11,
 12,13)
 Voris 2441 (2X) (5)
 Voris V2472 (2X) (1,3,4,5,6,11,
 12,13)
 Voris V2491 (2X) (1,3,4,5,9,10)

V

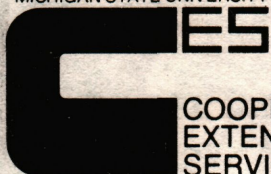
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