

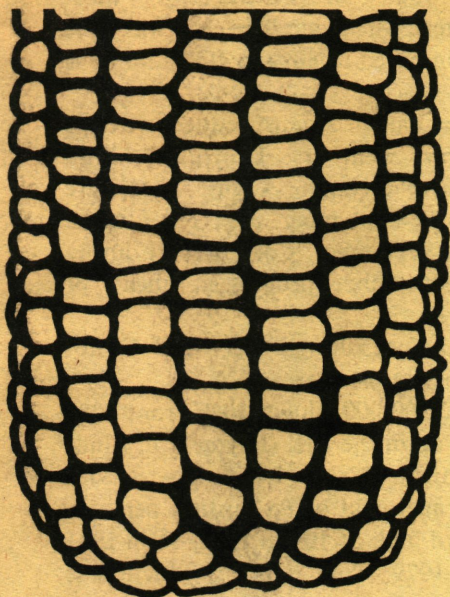
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Michigan Corn Production Hybrids Compared
Michigan State University Extension Service
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Michigan Corn Production

HYBRIDS COMPARED 1984

Cooperative Extension Service
Michigan State University

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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.

The highest yielding hybrids in the 1983 trials produced 31 bushels more corn per acre than the average of the 336 hybrids tested and 65 bushels more than the lowest tested (TABLE A). At the 19 testing locations the yields were 143 for the highest, 112 for the average and 79 for the lowest yielding hybrids. The driest hybrids at harvest contained 4 percent less moisture than the average and 9 percent less moisture than the wettest hybrids tested. Stalk breakage averaged 16 percent for hybrids with the highest amount of stalk lodging, 6 percent for the average and 1 percent for the lowest.



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 25 presents an index of all hybrids entered in the 1983 trials. At 19 locations, 336 hybrids were tested as 2,056 entries. Company names used in association with hybrid numbers refer to the brand; 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 index, TABLE 25.

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, and Menominee County trials (Tables 10, 12, 15, 20, 22, 24). 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 Mason County trial (TABLE 18) was irrigated.

Growing Conditions

Planting of all trials was completed between April 27 and May 27 except the Ottawa and Alpena trials where wet soils delayed planting until June 14 and 15. Weather during planting was unusually wet and cool so that germination and seedling emergence was slow. Cool weather with slow plant development continued until late June.

Warm weather in late June and the first half of July speeded plant growth but plant height continued to be

below normal. Hot dry weather during the last half of July and first half of August stressed the crop in most areas except southeastern Michigan. The crop was 40% silked on August 1 compared to 80% in 1982 and 66% for the average.

Rains during the last half of August reduced adverse effects of hot, dry weather. Unusually high temperatures continued through August. Moisture stress returned in early September with relief again during the last half of September. Corn harvest during October and early November progressed ahead of normal.

Most corn matured before killing frosts which did not occur until late October in most areas.

Corn acreage was 2,200,000, down 30% from 1982 due to the heavy sign-up in the PIK (Payment in Kind) program. The Michigan Crop Reporting Service estimates a state average yield of 95 bushels per acre compared to the record high of 109 in 1982, 96 in 1981 and 95 in 1980 and 1979. Total grain production is estimated at 176 million bushels, a 43 percent decline from 1982. Silage was harvested from 370,000 acres.

Plant Population Trials

Five adapted hybrids at four plant populations (15,900 to 27,900 plants per acre at harvest) were grown at each of 17 locations (TABLE B). Hybrid x population interactions were not significant, so only the averages are reported.

The 23,100 average harvest population produced significantly higher yields at 5 of the 17 locations, averaging 159 to 179 bushels per acre. These increases were 8, 12, 5, 7, and 9 bushels per acre above yields at 19,400 population. At four other locations, the increases were small (1-2 bushels) and not significant. Yields decreased (3-12 bushels) at 8 locations when harvest populations increased from 19,400 to 23,100.

Average yields were 124, 136, 135 and 128 bushels per acre for the four populations averaged for all locations. Moisture content of grain averaged 1 percent higher for the highest population. 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 1983, 1982, and 1981.

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.

Hybrids with yields significantly better than the average grain yield at each location are marked with an asterisk (*) in each table. The "least significant difference" for yield was added to the average yield and hybrids exceeding this yield are starred. There are some statistically significant differences among hybrids "significantly better than average yield in 1983."

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 trials conducted nearest you. 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 are generally lower in moisture content than later-maturing hybrids. Differences among hybrids in rate of drying in the field also affect moisture content at harvest, but usually do not greatly disturb the relative maturity ratings as determined by moisture content.

One percent more moisture at harvest means a delay in maturity of about two days. Corn is mature when moisture is down to about 32 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—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—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 1984

The following recommendations will help avoid moldy corn in 1984:

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 1984

Stress (heat and moisture) cut seed production on reduced seed acreage in the central Corn Belt in 1983. Carry-over supplies of seed corn from the PIK cut-back in 1983 acreage will make up for lower seed production in 1983 and provide adequate seed supplies for 1984 planting. Seed supplies of some popular and new hybrids will be short and some "second choices" may be necessary.

Table A

AVERAGE, HIGHEST AND LOWEST MOISTURE CONTENT,
GRAIN YIELD, AND STALK LODGING AT 19 LOCATIONS
IN 1983

Location - County	No. of Hybrids	Bushels Per Acre			% Moisture			% Stalk Lodging		
		Average	Highest	Lowest	Average	Highest	Lowest	Average	Highest	Lowest
Monroe	110	131.8	158.9	95.9	22.2	26.3	17.8	4.5	13.5	0.0
Hillsdale	107	120.5	148.4	90.2	21.0	27.5	17.2	2.1	5.9	0.0
Branch	120	135.9	167.8	83.5	20.2	24.8	17.0	2.3	12.3	0.0
Kalamazoo	109	92.7	132.1	62.4	23.6	29.2	19.1	3.9	9.8	0.0
Cass-upland irrigated	127	149.2	180.3	113.8	19.8	23.5	17.1	4.1	14.1	0.0
Cass-muck soil	47	87.9	110.8	65.7	22.0	28.0	17.4	2.8	6.5	0.7
Kent	76	136.6	172.2	93.6	23.9	27.8	21.4	8.7	18.4	0.8
Ottawa	61	86.7	116.6	62.9	27.5	31.7	23.1	2.8	7.9	0.0
Ingham	111	102.5	135.5	69.8	27.2	34.2	21.7	4.3	11.8	0.0
Sanilac	95	158.0	192.1	123.9	30.1	34.0	22.9	0.8	7.5	0.0
Saginaw	90	141.7	181.2	100.8	23.1	28.1	19.4	4.0	17.7	0.0
Huron	97	109.7	148.0	72.8	29.9	33.0	24.5	0.6	2.9	0.0
Isabella	55	130.6	160.8	94.5	29.3	33.1	25.5	7.6	20.0	0.0
Montcalm-irrigated	59	151.4	194.7	95.7	27.0	32.2	22.6	9.1	23.8	2.1
Montcalm-not irrigated	59	66.4	90.5	36.5	27.0	32.2	22.6	8.9	21.2	1.5
Mason-irrigated	40	116.3	148.6	73.4	25.4	28.7	22.8	13.8	32.4	5.7
Grand Traverse	29	88.4	118.9	59.8	24.8	28.0	21.5	22.0	54.0	5.6
Alpena	28	34.7	46.7	25.3	31.0	34.0	26.0	2.3	7.8	0.0
Menominee	26	87.5	120.0	70.7	25.4	30.4	20.7	3.7	14.9	0.0
Average		112.0	143.2	78.6	25.3	29.8	21.1	5.7	15.8	0.9

Table B

AVERAGE GRAIN YIELD, % MOISTURE AND STALK LODGING AT FOUR
HARVEST PLANT POPULATIONS FOR 17 LOCATIONS IN 1983

Location - County	Bushels Per Acre				% Moisture in Grain				% Stalk Lodging			
	15,900	19,400	23,100	27,900	15,900	19,300	23,100	27,900	15,900	19,300	23,100	27,900
Monroe	136	147	149	144	23	23	24	24	3	6	8	11
Hillsdale	128	140	136	130	22	22	23	24	2	5	7	10
Branch	145	151	159	157	20	19	20	21	1	3	7	8
Kalamazoo	119	127	120	115	21	20	20	21	3	3	9	12
Cass-upland irrigated	145	160	172	164	19	19	20	20	2	5	10	14
Cass-muck soil	98	104	92	83	21	20	21	22	3	7	8	10
Kent	141	157	162	154	22	23	23	24	4	5	9	12
Ottawa	95	104	93	84	26	27	27	27	1	4	6	7
Ingham	115	128	124	115	27	27	28	29	2	3	6	10
Sanilac	152	171	178	176	28	29	29	30	0	2	6	6
Saginaw	144	159	160	155	21	22	21	23	2	2	9	15
Huron	129	135	132	125	27	28	28	28	0	1	2	6
Isabella	135	146	148	142	27	27	28	29	3	4	9	15
Montcalm-irrigated	154	170	179	182	26	26	26	27	4	6	11	18
Montcalm-not irrigated	69	74	66	52	25	24	26	27	2	5	12	16
Mason-irrigated	119	131	132	125	23	24	25	25	4	8	15	21
Grand Traverse	90	101	97	88	23	23	23	25	9	16	22	31
Average	124	136	135	128	24	24	24	25	3	5	9	13

Table 1

SOUTHERN MICHIGAN
Monroe County Trial
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
PRO-SEED HL2454	17.8	--	--	108.2	--	--	9.5	--	--
ANDERSONS PSX93	17.9	--	--	104.6	--	--	3.6	--	--
PRO-SEED HL2620	18.0	--	--	111.3	--	--	0.0	--	--
PAYCO SX620	18.4	--	--	99.9	--	--	7.3	--	--
DEKALB-PFIZER DK-484	18.7	--	--	104.8	--	--	7.6	--	--
PRO-SEED HL2444	18.7	--	--	95.9	--	--	13.5	--	--
KING K4422	19.0	20	--	119.3	120	--	4.8	4	--
LOWE LSK117	19.0	20	20	119.4	108	117	8.4	6	5
KING K4423	19.1	--	--	128.7	--	--	4.9	--	--
PRO-SEED HL2784	19.3	23	--	108.9	110	--	7.5	5	--
CROW'S 199	19.4	22	--	128.9	115	--	2.9	2	--
SUPER CROST 2406	19.5	22	22	112.1	118	125	0.0	3	4
RUPP XR1625	19.8	23	24	141.7	128	127	4.0	4	8
JACQUES 7700	19.9	--	--	136.2	--	--	2.1	--	--
*KING K4474	20.1	--	--	144.0	--	--	3.6	--	--
ASGROW RX1717	20.3	--	--	103.7	--	--	4.8	--	--
PAYMASTER 4660	20.3	22	22	127.2	127	128	2.2	2	3
SUPER CROST 2790	20.4	23	24	134.3	125	128	3.5	3	2
DEKALB-PFIZER T950	20.4	--	--	121.6	--	--	6.9	--	--
FUNK G-4323	20.6	24	24	119.2	116	123	2.1	2	4
BO-JAC 381	20.6	--	--	120.2	--	--	6.3	--	--
MFI 1855	20.6	--	--	138.5	--	--	10.3	--	--
ANDERSONS PSX105	20.7	--	--	153.3	--	--	3.5	--	--
ANDERSONS PSX108	20.7	--	--	125.1	--	--	6.9	--	--
DEKALB-PFIZER XL-32A	20.9	24	--	137.2	128	--	0.7	4	--
FARMERS FCC224A	20.9	24	23	131.5	125	131	9.5	10	9
MFI 1833	20.9	--	--	134.6	--	--	1.4	--	--
PIONEER 3572	21.0	23	23	132.3	124	130	2.2	1	1
PAYCO SX722	21.0	23	--	120.8	122	--	10.6	8	--
*BECK'S 49X	21.0	--	--	156.4	--	--	0.7	--	--
STAUFFER SEEDS S5650	21.1	23	--	132.6	123	--	4.1	5	--
GRIES GSF-500	21.1	24	--	138.6	126	--	7.0	6	--
VORIS V2411	21.1	23	--	113.4	113	--	10.6	8	--
LEADER SX510	21.2	22	21	133.5	122	129	5.6	7	6
KING K5533	21.2	--	--	126.4	--	--	2.1	--	--
CARGILL 861	21.2	22	--	110.4	116	--	7.0	6	--
RUPP XR1690	21.2	24	24	125.5	120	126	3.6	4	4
VORIS EX1160	21.2	--	--	140.8	--	--	2.0	--	--
LOWE LSK222	21.3	23	23	118.3	108	117	8.5	7	7
LEADER SX495	21.4	24	24	127.2	119	124	8.4	8	7
PIONEER 3707	21.4	22	--	135.1	129	--	0.7	2	--
KING K5511	21.4	--	--	120.8	119	--	1.5	2	--
*GOLDEN HARVEST H-2448	21.4	24	24	153.9	139	142	2.1	4	4
PRO-SEED HL2727	21.5	23	--	128.4	116	--	4.8	5	--
SUPER CROST 3030	21.6	23	--	118.4	126	--	6.7	6	--
GREAT LAKES GL-547	21.6	--	--	131.3	--	--	5.5	--	--
KING K4464	21.6	--	--	104.3	--	--	2.4	--	--
DAIRYLAND DX1006	21.6	22	--	132.4	132	--	9.7	8	--
RUPP XR1639	21.6	24	--	136.0	134	--	5.0	4	--
O'S GOLD 1170A	21.6	22	22	125.3	120	127	3.5	3	4
STAUFFER SEEDS S5340	21.7	--	--	141.7	--	--	4.8	--	--
PIONEER 3747	21.7	22	--	139.5	133	--	2.3	3	--
DAIRYLAND EXP.82-109	21.7	--	--	114.8	--	--	1.4	--	--
LOWE LSK217	21.8	23	23	124.2	111	118	8.6	7	8
PAYCO SX715	21.8	--	--	122.3	--	--	4.4	--	--
DAIRYLAND DX1105	21.9	24	--	128.2	110	--	4.8	7	--
CROW'S 431	21.9	--	--	139.3	--	--	0.0	--	--
FUNK G-4342	22.0	23	--	125.7	117	--	2.7	5	--
JACQUES JX167	22.0	--	--	126.0	--	--	2.8	--	--
VORIS V2472	22.0	23	--	126.2	121	--	8.2	5	--
CARGILL 891	22.1	--	--	128.0	--	--	1.4	--	--
DEKALB-PFIZER DK-556	22.2	--	--	120.6	--	--	4.1	--	--
JACQUES JX151	22.2	23	--	126.2	121	--	9.9	7	--
MFI 1812	22.2	--	--	136.3	--	--	5.9	--	--
*GREAT LAKES 83472	22.2	--	--	147.4	--	--	2.1	--	--
*SELECT 33225	22.4	--	--	149.8	--	--	5.0	--	--
SELECT 4700	22.5	24	--	131.6	124	--	1.4	3	--
DAIRYLAND DX1007	22.5	24	24	129.3	116	132	2.7	4	4
DAIRYLAND DX1008	22.5	25	--	131.6	124	--	4.3	4	--
DEKALB-PFIZER T1000	22.6	--	--	127.4	--	--	3.5	--	--
GARNO S-102	22.9	25	25	135.7	134	140	3.4	2	2
BO-JAC 432	22.9	25	--	121.6	123	--	6.7	5	--
LYNKS LX4225	23.0	24	--	125.5	122	--	4.4	4	--
PAYCO SX860	23.0	26	26	142.6	127	129	1.4	4	3
PIONEER 3744	23.1	23	23	133.3	119	130	0.7	2	2
PAYCO SX824	23.2	24	--	129.0	123	--	9.8	7	--
GREAT LAKES 5922	23.2	25	25	140.5	138	145	4.3	4	3
*LEADER SX555	23.3	26	27	144.1	125	137	4.9	7	6
GOLDEN HARVEST H-2480	23.3	--	--	129.9	--	--	1.4	--	--
FARMERS FCC251	23.3	--	--	136.6	--	--	8.2	--	--
PRO-SEED HL2850	23.4	--	--	134.1	--	--	6.6	--	--
O'S GOLD 6882	23.4	26	27	132.9	119	129	11.9	9	6
DEKALB-PFIZER XL-55A	23.5	25	24	131.9	128	140	2.0	5	5
DEKALB-PFIZER T1100	23.5	24	24	132.1	123	137	0.7	2	2
FUNK G-4435	23.7	25	--	127.2	123	--	8.7	5	--

Table 1 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
SUPER CROST 4337	23.8	--	--	140.7	--	--	2.1	--	--
*ASGROW RX777	23.8	25	25	153.4	143	149	6.3	8	8
*BO-JAC 5603	23.9	--	--	152.0	--	--	1.5	--	--
DAIRYLAND DX1012	24.1	26	26	134.1	133	134	2.1	4	4
PAYCO SX872	24.1	--	--	117.6	--	--	2.2	--	--
*LOWE LSK317	24.2	27	27	156.3	131	140	5.6	5	4
*DAIRYLAND DX1017	24.2	28	--	153.0	132	--	0.0	1	--
*BECK'S 60X	24.2	--	--	152.3	--	--	5.5	--	--
*MFI 1976	24.3	--	--	146.7	--	--	1.4	--	--
FUNK G-4438	24.4	26	--	137.1	127	--	7.7	7	--
RUPP XR1780	24.4	27	27	138.9	124	131	7.2	4	4
*LEADER SX575	24.5	27	27	152.4	133	133	4.3	8	5
*CARGILL 921	24.6	26	--	150.6	131	--	3.4	4	--
PAYCO SX925	24.7	--	--	119.7	--	--	0.0	--	--
SELECT 5188	24.9	--	--	143.0	--	--	2.1	--	--
MFI 1900	24.9	--	--	125.9	--	--	0.0	--	--
*GOLDEN HARVEST H-2535	25.1	27	27	158.9	138	138	2.1	3	3
SELECT 4800	25.2	27	--	134.8	122	--	3.7	3	--
*PAYCO SX900	25.2	28	--	148.5	139	--	4.1	6	--
GREAT LAKES GL-592	25.7	--	--	141.3	--	--	8.6	--	--
VORIS V2491	25.8	27	27	129.7	117	125	4.1	4	4
*DAIRYLAND EXP.11201	25.9	--	--	158.8	--	--	4.8	--	--
*LYNKS LX4315	26.0	27	27	157.0	138	140	2.1	3	3
*BO-JAC 5646	26.1	--	--	149.8	--	--	0.8	--	--
*GOLDEN HARVEST H-2500	26.3	28	29	154.2	135	136	1.4	2	3
Average	22.2	24	25	131.8	124	131	4.5	5	4
Range	17.8	20	20	95.9	108	117	0.0	1	1
	to	to	to	to	to	to	to	to	to
	26.3	28	29	158.9	143	149	13.5	10	9
Least significant difference	1.4	1.0	0.7	11.3	7	5	--	--	--

*Significantly better than average yield in 1983

	1983	1982	1981
Planted	May 27	April 29	May 23
Harvested	October 19	October 19	November 11
Soil Type	Griffin sandy loam	Pewamo clay loam	Blount silty clay loam
Previous crop	Wheat	Alfalfa	Corn
Population	21,700	20,200	21,000
Rows	30"	30"	30"
Fertilizer	168-104-164	165-101-71	150-130-223
Soil test: pH	6.9	6.6	6.3
P	295 (very high)	387 (very high)	212 (very high)
K	295 (high)	237 (high)	284 (high)
Farm cooperator:	Orville Montri, LaSalle		
County Extension Director:	Paul Nevel, Monroe		

Table 2

SOUTHERN MICHIGAN
Hillsdale County Trial
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR
KING K4423	17.2	--	--	114.1	--	--	2.2	--	--
MFI 1492	17.4	--	--	90.2	--	--	2.2	--	--
RUPP XR1591	17.6	17	19	119.2	125	122	2.2	7	6
RUPP EXP. 3-209	17.6	--	--	106.7	--	--	4.7	--	--
*CROW'S 199	17.7	--	--	135.4	--	--	0.7	--	--
*DEKALB-PFIZER DK-484	17.8	--	--	132.8	--	--	1.4	--	--
MFI 1776	17.8	--	--	124.2	--	--	0.7	--	--
KING K4474	18.0	--	--	122.0	--	--	4.7	--	--
*BO-JAC14	18.1	--	--	132.9	--	--	1.2	--	--
PAYCO SX620	18.1	--	--	120.1	--	--	1.5	--	--
P-A-G SX193	18.2	--	--	115.0	--	--	0.7	--	--
KING K4422	18.2	18	--	130.6	133	--	2.9	3	--
*MFI 1812	18.2	--	--	131.6	--	--	4.4	--	--
*MFI 1855	18.4	--	--	132.5	--	--	2.1	--	--
PARKER 29	18.6	--	--	113.0	--	--	2.8	--	--
GREAT LAKES GL-466	18.7	18	--	122.6	135	--	3.6	4	--
BECK'S 40X	18.8	18	20	127.6	138	133	4.5	6	4
DEKALB-PFIZER XL-32A	18.9	19	21	119.0	134	139	0.7	1	1
PIONEER 3747	19.0	18	--	114.4	139	--	2.2	5	--
GREAT LAKES GL-547	19.1	--	--	115.1	--	--	3.5	--	--
DEKALB-PFIZER T950	19.1	--	--	115.8	--	--	5.1	--	--
CROW'S 198	19.1	--	--	114.3	--	--	1.4	--	--
*PIONEER 3744	19.2	18	20	134.3	146	140	2.9	4	5
*FLOWE LSX237	19.2	19	21	138.6	135	127	4.9	5	5
DEKALB-PFIZER EX-2120	19.3	19	--	130.8	131	--	2.1	1	--

Table 2 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
*GREAT LAKES GL-552	19.3	20	21	132.0	148	146	1.5	3	3
*GREAT LAKES GL-487	19.3	--	--	131.6	--	--	2.9	--	--
NORTHROP KING PX9415	19.3	--	--	101.0	--	--	3.6	--	--
LOWE LSX117	19.3	18	19	106.9	120	118	4.4	3	3
DAIRYLAND DX1006	19.3	19	--	121.0	134	--	4.2	4	--
GREAT LAKES GL-516	19.5	19	20	123.1	136	131	1.5	3	3
KING K5511	19.5	20	21	113.8	136	137	0.0	2	2
*PAYCO SX872	19.6	--	--	139.3	--	--	2.9	--	--
CARGILL 861	19.8	19	--	131.0	148	--	2.1	2	--
CARGILL 836	19.8	--	--	113.9	--	--	1.5	--	--
LOWE LSX222	19.8	20	21	107.2	119	116	4.1	6	7
LEADER SX510	19.9	20	--	111.9	128	--	1.6	3	--
LOWE LSX247	20.0	--	--	126.8	--	--	5.9	--	--
RUPP EXP. 2-165	20.0	--	--	129.8	--	--	0.7	--	--
DEKALB-PFIZER DK-556	20.1	--	--	106.7	--	--	5.7	--	--
CARGILL 862	20.1	19	20	118.6	125	123	2.8	5	8
RUPP XR1690	20.2	20	22	122.2	137	131	3.5	5	4
*CARGILL 867	20.3	--	--	134.6	--	--	3.6	--	--
*STAUFFER SEEDS S5650	20.4	20	--	139.0	149	--	0.7	2	--
JACQUES JX167	20.5	--	--	120.3	--	--	2.1	--	--
LEADER SX495	20.5	19	21	120.3	125	128	3.5	3	2
NORTHROP KING PX39	20.5	--	--	110.2	--	--	1.5	--	--
DEKALB-PFIZER T1000	20.5	--	--	122.3	--	--	2.1	--	--
ANDERSONS PSX105	20.6	--	--	122.3	--	--	0.7	--	--
NORTHROP KING PX9455	20.7	--	--	108.0	--	--	2.9	--	--
*PIONEER 3707	20.7	20	--	147.5	166	--	0.7	1	--
CARGILL 891	20.7	--	--	126.5	--	--	1.4	--	--
LOWE LSX217	20.7	19	21	115.4	123	115	4.2	7	6
RUPP XR1625	20.7	20	23	128.9	147	141	1.4	3	3
FUNK G-4342	20.8	20	--	113.8	130	--	2.2	5	--
LEADER 3525	20.8	--	--	124.4	--	--	3.8	--	--
O'S GOLD 1170A	20.9	20	--	106.8	136	--	1.5	1	--
*JACQUES 7700	21.0	--	--	134.5	--	--	2.7	--	--
WOLVERINE W174A	21.0	19	21	108.1	136	133	2.8	1	3
P-A-G SX239	21.0	--	--	103.4	--	--	2.9	--	--
ANDERSONS PSX108	21.0	--	--	124.8	--	--	2.1	--	--
MFI 1833	21.0	--	--	119.7	--	--	3.0	--	--
NORTHROP KING PX9405	21.1	--	--	123.6	--	--	5.7	--	--
DAIRYLAND DX1007	21.1	21	22	119.1	136	136	0.0	1	3
P-A-G EXP. 111571	21.3	--	--	125.3	--	--	2.2	--	--
*CROW'S 431	21.3	--	--	135.4	--	--	0.7	--	--
FUNK G-4323	21.4	20	22	112.1	130	132	1.5	1	2
SUPER CROST 4337	21.4	--	--	111.2	--	--	2.8	--	--
DAIRYLAND DX1105	21.4	21	--	124.3	149	--	1.4	2	--
GOLDEN HARVEST H-2480	21.4	--	--	120.8	--	--	2.2	--	--
SUPER CROST 2790	21.5	20	22	110.3	136	131	2.8	4	3
GREAT LAKES GL-522	21.5	20	--	125.2	142	--	1.4	1	--
*RUPP XR1639	21.5	20	--	147.2	153	--	0.7	2	--
KING K4464	21.6	--	--	107.6	--	--	1.4	--	--
*DEKALB-PFIZER XL-55A	21.8	21	22	133.7	149	148	1.4	7	6
ASGROW RX717	21.8	--	--	109.1	--	--	0.8	--	--
*BO-JAC 381	21.8	--	--	148.4	--	--	3.4	--	--
KING K5533	21.8	--	--	116.9	--	--	2.1	--	--
*GREAT LAKES 5922	21.8	21	22	138.7	157	152	0.0	2	2
*P-A-G SX275	22.0	--	--	132.7	--	--	0.7	--	--
*PIONEER 3572	22.0	21	22	144.7	151	145	0.0	2	3
GRIES GSF-500	22.1	21	--	129.2	141	--	0.0	0	--
BECK'S 49X	22.1	--	--	106.3	--	--	0.0	--	--
*GARNO S102	22.3	21	23	135.2	155	150	0.0	1	2
GOLDEN HARVEST H-2448	22.3	21	22	129.1	140	136	1.4	1	1
BECK'S 60X	22.3	22	24	111.3	131	133	2.1	3	2
MFI 1900	22.5	--	--	114.9	--	--	0.0	--	--
DEKALB-PFIZER EX-2929	22.6	21	--	125.7	139	--	0.0	2	--
MFI 1976	22.7	--	--	111.5	--	--	2.9	--	--
O'S GOLD 6882	22.9	21	--	130.3	139	--	2.9	3	--
PAYCO SX860	23.0	22	23	120.8	135	135	3.5	4	3
*STAUFFER SEEDS S5340	23.1	--	--	137.7	--	--	2.0	--	--
*FUNK G-4438	23.3	23	--	142.1	155	--	1.4	2	--
RUPP XR1780	23.3	22	24	126.3	145	143	2.1	1	1
DEKALB-PFIZER T1100	23.7	22	24	121.7	140	135	0.0	0	0
PAYCO SX824	23.8	23	--	129.2	152	--	0.7	2	--
LEADER SX555	24.0	22	23	109.3	122	124	0.7	3	5
DAIRYLAND DX1012	24.2	--	--	124.3	--	--	2.1	--	--
*SUPER CROST 5438	24.4	--	--	139.6	--	--	0.0	--	--
CARGILL 921	24.8	23	25	127.0	142	146	0.0	7	5
BO-JAC 5603	25.2	--	--	113.3	--	--	0.7	--	--
*BO-JAC 5646	25.3	--	--	143.6	--	--	1.4	--	--
DAIRYLAND DX1016	25.3	24	26	114.1	128	126	0.7	2	2
PAYCO SX900	26.6	25	--	122.4	147	--	1.4	3	--
PAYCO SX925	26.9	--	--	106.7	--	--	2.3	--	--
GOLDEN HARVEST H-2500	27.2	25	26	128.9	141	135	0.7	4	4
DAIRYLAND DX1017	27.5	26	--	119.8	149	--	0.7	2	--
Average	21.0	20	22	120.5	139	134	2.1	3	3

(continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	1983	YR	YR	1983	YR	YR	1983	YR	YR
Range	17.2	17	19	90.2	119	115	0.0	0	0
	to	to	to	to	to	to	to	to	to
	27.5	26	26	148.4	166	152	5.9	7	8
Least significant difference	1.5	1.0	0.7	11.1	7	5	--	--	--
*significantly better than average yield in 1983									
	<u>1982</u>			<u>1982</u>			<u>1981</u>		
Planted	May 18			May 3			May 9		
Harvested	October 19			October 19			October 27		
Soil Type	Sibawa-Matherton			Sibawa-Matherton			Sibawa-Matherton		
	loam			loam			loam		
Previous crop	Corn			Corn			Corn		
Population	21,700			21,900			21,100		
Rows	30"			30"			30"		
Fertilizer	195-100-103			185-60-180			180-80-190		
Soil test: pH	6.1			6.5			6.1		
P	66/medium high)			56/medium)			74/high)		
K	227/high)			233/high)			312(very high)		
Farm Cooperators: Don and Ed Marshall, Litchfield									
County Extension Director: James Pelham, Hillsdale									

Table 3

SOUTHERN MICHIGAN
Branch County Trial
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR
KING K4423	17.0	--	--	120.7	--	--	3.0	--	--
KING K4422	17.1	17	--	140.3	146	--	2.7	2	--
PRO-SEED HL2444	17.1	--	--	115.0	--	--	2.9	--	--
PAYCO SX620	17.2	--	--	114.8	--	--	0.8	--	--
MFI 1492	17.2	--	--	89.2	--	--	12.3	--	--
DEKALB-PFIZER DK-484	17.3	--	--	120.7	--	--	2.3	--	--
KING K4474	17.3	--	--	123.7	--	--	4.4	--	--
PRO-SEED HL2620	17.3	--	--	121.2	--	--	2.9	--	--
PARKER 190	17.3	--	--	83.5	--	--	10.5	--	--
GREAT LAKES GL-487	17.5	--	--	136.3	--	--	2.1	--	--
SELECT 2440	17.6	--	--	122.0	--	--	0.0	--	--
MFI 1855	17.6	--	--	130.3	--	--	4.9	--	--
PIONEER 3747	17.8	18	--	134.7	152	--	2.1	3	--
RUPP EXP. 2-165	17.8	--	--	112.1	--	--	0.7	--	--
CARGILL 861	17.9	18	--	132.6	148	--	1.5	4	--
GOLDEN HARVEST H-2440	18.0	19	22	119.5	132	132	3.5	7	5
NORTHROP KING PX9415	18.2	19	--	129.7	152	--	3.4	4	--
RUPP XR1591	18.3	19	22	144.2	150	143	3.6	2	1
*PIONEER 3744	18.4	19	21	149.4	154	148	0.7	1	1
P-A-G SX239	18.5	--	--	118.0	--	--	2.9	--	--
*FUNK G-4323	18.6	19	22	149.3	169	162	0.0	1	1
*NORTHROP KING PX39	18.6	19	22	149.8	166	160	2.7	2	2
P-A-G SX243	18.6	--	--	129.5	--	--	2.8	--	--
CARGILL 836	18.6	--	--	101.0	--	--	4.7	--	--
MFI 1833	18.6	--	--	126.1	--	--	4.4	--	--
NORTHROP KING PX9405	18.7	--	--	123.1	--	--	3.7	--	--
KING K5511	18.7	19	--	131.3	150	--	2.9	3	--
DAIRYLAND DX1006	18.7	20	--	142.3	151	--	1.4	3	--
DEKALB-PFIZER T1000	18.7	--	--	133.6	--	--	1.4	--	--
GREAT LAKES GL-516	18.8	19	22	138.8	160	153	2.8	2	2
*PIONEER 3707	18.8	19	--	149.7	166	--	0.7	1	--
RENK RK24	18.8	19	22	134.4	144	138	3.7	4	3
ANDERSONS PSX105	18.8	--	--	132.3	--	--	0.7	--	--
GREAT LAKES GL-522	18.9	20	--	145.2	158	--	0.7	1	--
LEADER SX510	19.0	19	--	134.6	143	--	0.7	2	--
RUPP XR1690	19.1	20	23	139.4	152	142	2.1	2	3
LYNKS LX4115	19.1	--	--	126.0	--	--	1.5	--	--
VORIS V2451	19.1	--	--	145.2	--	--	2.0	--	--
DAIRYLAND EXP. 82-109	19.2	--	--	142.4	--	--	0.8	--	--
PRO-SEED HL2727	19.2	20	--	123.5	144	--	2.2	3	--
PAYCO SX715	19.2	--	--	143.0	--	--	2.2	--	--
*JACQUES JX157	19.3	--	--	151.6	--	--	1.4	--	--
*GOLDEN HARVEST H-2448	19.3	20	23	149.7	164	154	4.1	3	2
FUNK G-4342	19.4	21	--	140.2	155	--	4.4	4	--
*PIONEER 3572	19.4	20	23	153.6	156	149	0.0	0	0
BO-JAC 381	19.4	--	--	141.5	--	--	0.7	--	--
CARGILL 867	19.4	--	--	147.6	--	--	2.9	--	--
PARKER 52	19.4	20	--	122.6	143	--	1.5	3	--
GOLDEN HARVEST H-2480	19.4	--	--	124.4	--	--	2.9	--	--
DEKALB-PFIZER EX-2929	19.5	20	--	141.2	159	--	2.3	4	--

Table 3 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	YR	YR	1983	YR	YR	1983	YR	YR
KING K4464	19.6	--	--	110.9	--	--	0.8	--	--
CARGILL 862	19.6	19	--	128.5	150	--	3.0	6	--
*RENK RK60	19.7	--	--	154.0	--	--	1.4	--	--
PAYCO SX722	19.7	20	--	118.6	142	--	3.0	4	--
VORIS EX1160	19.7	--	--	138.6	--	--	2.1	--	--
FARMERS FCC224A	19.7	19	22	137.0	151	146	4.1	5	4
CUSTOM CFS 5801	19.7	--	--	147.5	--	--	2.2	--	--
MFI 1812	19.7	--	--	124.3	--	--	2.8	--	--
STAUFFER SEEDS S5650	19.8	20	--	140.9	157	--	0.7	2	--
LEADER SX495	19.8	20	23	132.6	139	132	3.5	2	2
DAIRYLAND DX1008	19.8	--	--	134.9	--	--	2.1	--	--
RUPP XR1625	19.8	20	23	128.0	141	139	3.0	2	1
RUPP XR1639	19.8	21	--	127.2	157	--	2.1	2	--
CUSTOM CFS E95004	19.9	--	--	129.6	--	--	2.1	--	--
*GREAT LAKES 83472	19.9	--	--	154.4	--	--	1.8	--	--
*SELECT 4700	20.0	20	23	154.4	167	159	3.6	2	2
DAIRYLAND DX1007	20.0	20	23	134.8	153	149	3.2	2	2
O'S GOLD 2450	20.0	--	--	137.5	--	--	3.1	--	--
*GREAT LAKES GL-547	20.2	--	--	150.2	--	--	1.4	--	--
NORTHROP KING PX9455	20.2	--	--	124.0	--	--	2.2	--	--
PAYMASTER 4790	20.2	21	--	141.0	166	--	0.7	2	--
SELECT 3300	20.2	21	24	141.6	158	159	1.4	1	2
*LEADER SX490	20.3	20	--	149.3	151	--	2.9	2	--
PAYCO SX872	20.3	--	--	137.6	--	--	0.0	--	--
*STAUFFER SEEDS S5340	20.4	--	--	151.6	--	--	0.7	--	--
*FUNK G-4438	20.4	22	--	150.8	172	--	1.4	2	--
DAIRYLAND DX1105	20.4	21	--	123.6	139	--	0.8	2	--
*RENK RK66	20.4	21	24	164.9	170	158	1.4	3	2
LEADER 3525	20.5	--	--	125.1	--	--	2.1	--	--
CUSTOM CFS W5410	20.8	--	--	126.0	--	--	1.7	--	--
BECK'S 60X	20.8	--	--	143.0	--	--	3.5	--	--
*BO-JAC 432	20.9	21	--	151.8	161	--	1.4	2	--
CARGILL 891	20.9	--	--	147.8	--	--	2.2	--	--
RENK RK75	20.9	22	--	147.7	156	--	2.1	1	--
ANDERSONS PSX108	20.9	--	--	134.2	--	--	2.2	--	--
*GREAT LAKES 5922	20.9	21	24	158.0	176	166	0.8	2	2
*DEKALB-PFIZER XL-55A	21.0	21	23	155.6	172	166	4.4	6	5
LYNKS LX4210	21.0	20	23	124.3	144	143	1.4	2	2
P-A-G SX397	21.1	21	24	146.9	164	161	0.7	3	2
*GARNO S-102	21.2	21	24	156.9	174	161	0.7	1	1
FARMERS FCC251	21.2	--	--	145.5	--	--	2.7	--	--
P-A-G SX275	21.3	--	--	141.1	--	--	2.1	--	--
*SELECT 4800	21.3	21	25	166.1	177	164	2.8	3	2
DEKALB-PFIZER T1100	21.5	21	25	148.3	165	153	2.8	2	2
O'S GOLD 6882	21.5	21	--	147.1	169	--	2.2	2	--
*ASGROW RX777	21.6	22	25	158.6	178	168	2.3	2	1
ASGROW RX717	21.7	--	--	131.6	--	--	1.4	--	--
*BECK'S 49X	21.7	--	--	149.7	--	--	2.0	--	--
PAYCO SX860	22.1	22	25	139.1	170	165	1.4	2	1
*VORIS V2491	22.1	22	26	155.6	177	168	1.4	1	1
*LYNKS LX4315	22.2	22	26	153.1	173	165	2.9	3	2
RUPP XR1780	22.3	22	25	142.9	172	166	2.7	2	2
CARGILL 921	22.4	23	--	127.9	152	--	2.2	2	--
DAIRYLAND DX1012	22.5	--	--	145.4	--	--	2.1	--	--
*GOLDEN HARVEST H-2535	22.5	--	--	149.5	--	--	2.0	--	--
PAYCO SX824	22.6	22	--	148.3	176	--	1.4	1	--
SUPER CROST 4337	22.8	22	--	148.8	159	--	2.1	1	--
*JACQUES 7780	23.0	--	--	156.3	--	--	2.8	--	--
*DAIRYLAND EXP. 11201	23.0	--	--	157.6	--	--	2.1	--	--
PAYCO SX925	23.0	--	--	99.8	--	--	1.6	--	--
MFI 1900	23.4	--	--	111.1	--	--	3.0	--	--
BO-JAC 601	24.0	--	--	146.4	--	--	3.0	--	--
*CUSTOM CFS E95005	24.0	--	--	160.1	--	--	1.4	--	--
*PAYCO SX900	24.1	24	--	149.7	185	--	0.0	1	--
RENK RK76	24.2	--	--	142.8	--	--	3.5	--	--
*SUPER CROST 5438	24.3	--	--	161.0	--	--	1.4	--	--
*BO-JAC 5601	24.5	25	--	157.4	185	--	1.4	2	--
*DAIRYLAND DX1017	24.7	24	--	167.8	191	--	1.6	1	--
*BECK'S 65X	24.7	--	--	152.9	--	--	2.9	--	--
*GOLDEN HARVEST H-2500	24.8	24	27	160.9	186	167	1.3	1	1
Average	20.2	21	23	135.9	160	155	2.3	2	2
Range	17.0	17	21	83.5	132	132	0.0	0	0
	to to to	to to to	to to to	to to to	to to to	to to to	to to to	to to to	to to to
	24.8	25	27	167.8	191	168	12.3	7	5
Least significant difference	1.3	1.0	0.8	13.3	8	5	--	--	--

*Significantly better than average yield in 1983

(continued)

Table 3 (continued)

Planted Harvested Soil Type Previous crop Population Rows Fertilizer Soil test:pH P K	1983	1982	1981
	May 18 October 18 Gilford sandy loam Corn 21,400 30" 175-64-0 6.3 185(very high) 227(high)	April 30 October 20 Gilford sandy loam Corn 21,200 30" 177-69-60 6.8 264(very high) 276(high)	May 22 October 28 Gilford sandy loam Corn 20,700 30" 185-64-0 6.5 310(very high) 272(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 - 1983, 1982, 1981

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	YR	YR	1983	YR	YR	1983	YR	YR
VORIS V2331	19.1	--	--	62.7	--	--	6.8	--	--
GREAT LAKES GL-422	19.4	--	--	80.9	--	--	2.2	--	--
CROW'S 199	19.7	19	--	83.0	104	--	2.2	4	--
GREAT LAKES GL-466	19.8	--	--	89.1	--	--	5.4	--	--
DEKALB-PFIZER DK-484	20.3	--	--	77.7	--	--	4.6	--	--
MFI 1492	20.3	--	--	62.4	--	--	4.1	--	--
SELECT 2440	20.4	--	--	89.8	--	--	2.1	--	--
RUPP XR1591	20.5	19	21	74.4	106	107	3.8	3	6
STAUFFER SEEDS S4402	20.6	19	21	74.6	109	107	5.8	3	5
CARGILL 861	20.6	20	--	68.5	98	--	8.1	8	--
KING K4423	21.0	--	--	80.4	--	--	3.7	--	--
KING K4474	21.0	--	--	94.7	--	--	5.9	--	--
DEKALB-PFIZER T950	21.1	--	--	71.6	--	--	7.9	--	--
CUSTOM CFS 4004	21.1	--	--	80.6	--	--	5.9	--	--
LOWE LSX117	21.2	--	--	64.4	--	--	5.1	--	--
PAYCO SX620	21.3	--	--	71.5	--	--	5.3	--	--
*PIONEER 3707	21.4	20	--	123.8	135	--	2.1	5	--
*PIONEER 3744	21.6	20	21	90.1	118	118	3.3	4	5
GOLDEN HARVEST H-2380	21.6	20	--	75.9	110	--	2.3	5	--
FUNK G-4342	21.8	21	--	78.8	112	--	3.0	6	--
PIONEER 3747	21.8	--	--	100.4	--	--	1.5	--	--
CARGILL 836	22.0	--	--	78.7	--	--	0.8	--	--
*PIONEER 3572	22.1	21	23	120.2	140	132	1.5	2	4
*GOLDEN HARVEST H-2440	22.1	21	22	81.1	114	116	4.7	6	6
BECK'S 45X	22.1	21	--	85.6	110	--	6.3	6	--
STAUFFER SEEDS S4880	22.2	--	--	82.5	--	--	6.2	--	--
DAIRYLAND DX1006	22.2	20	--	74.6	108	--	8.7	8	--
VORIS EX1160	22.2	--	--	91.6	--	--	3.7	--	--
SUPER CROST 3030	22.3	21	--	81.9	113	--	1.5	5	--
LEADER SX495	22.3	--	--	74.0	--	--	3.1	--	--
NORTHROP KING PX9415	22.4	21	--	75.1	105	--	2.2	3	--
ASGROW RX532	22.6	--	--	78.2	--	--	2.2	--	--
LYNKS LX4115	22.6	--	--	79.1	--	--	9.0	--	--
FUNK G-4323	22.7	21	23	85.2	120	119	2.3	2	4
LEADER SX490	22.7	--	--	81.7	--	--	9.8	--	--
CARGILL 862	22.7	21	22	93.0	117	113	3.8	4	8
LOWE LSX247	22.7	--	--	85.2	--	--	7.1	--	--
KING K4422	22.9	20	--	81.8	99	--	1.5	2	--
NORTHROP KING PX9455	23.0	--	--	85.8	--	--	1.5	--	--
P-A-G EXP. 111571	23.0	--	--	78.3	--	--	0.7	--	--
NORTHROP KING PX9405	23.1	--	--	78.0	--	--	7.5	--	--
VORIS V2451	23.1	--	--	95.1	--	--	3.6	--	--
*NORTHROP KING PX39	23.2	22	--	104.5	137	--	2.2	3	--
PAYMASTER 2990	23.3	21	23	97.0	118	118	6.1	7	9
*RUPP XR1639	23.3	22	--	103.9	122	--	5.8	6	--
*LYNKS LX4100	23.3	21	--	105.4	124	--	3.7	5	--
LOWE LSX217	23.4	--	--	73.7	--	--	9.2	--	--
DEKALB-PFIZER T1000	23.4	--	--	80.6	--	--	9.6	--	--
PAYCO SX722	23.4	21	--	86.3	116	--	3.2	4	--
O'S GOLD 1170A	23.5	22	--	94.7	118	--	2.7	3	--
GOLDEN HARVEST EX586	23.5	--	--	84.9	--	--	5.2	--	--
DEKALB-PFIZER EX-2929	23.6	21	--	89.5	113	--	4.0	5	--
P-A-G SX239	23.6	--	--	96.7	--	--	5.9	--	--
KING K4464	23.6	--	--	76.2	--	--	4.0	--	--
*MFI 1833	23.6	--	--	106.3	--	--	6.9	--	--
*JACQUES JX167	23.7	--	--	113.3	--	--	3.6	--	--
KING K5511	23.7	22	--	77.4	118	--	2.3	3	--
ANDERSONS PSX108	23.7	--	--	88.9	--	--	1.4	--	--
STAUFFER SEEDS S5340	23.8	--	--	93.0	--	--	5.0	--	--
ASGROW RX717	23.8	--	--	95.4	--	--	5.3	--	--

(continued)

Table 4 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
*CROW'S 431	23.8	--	--	107.8	--	--	0.7	--	--
*GREAT LAKES GL-552	23.9	22	24	104.2	130	131	3.1	3	3
ASGROW RX610	23.9	22	--	87.4	118	--	1.5	2	--
*BO-JAC 214	23.9	21	--	107.2	129	--	1.5	3	--
*BO-JAC 381	23.9	--	--	102.4	--	--	5.1	--	--
DAIRYLAND DX1105	23.9	22	--	96.9	124	--	1.5	4	--
MFI 1812	23.9	--	--	87.3	--	--	7.3	--	--
*CROW'S 444	24.0	22	--	107.2	128	--	0.7	5	--
*SELECT 3300	24.1	22	23	101.6	118	114	3.8	3	5
*GOLDEN HARVEST H-2448	24.3	22	23	110.5	127	123	1.4	5	5
CARGILL 891	24.4	--	--	91.9	--	--	4.6	--	--
DAIRYLAND DX1007	24.4	22	24	79.2	113	115	5.3	4	4
RUPP XR1625	24.4	22	24	89.4	120	122	2.1	5	5
PAYCO SX715	24.4	--	--	93.1	--	--	1.6	--	--
PAYCO SX872	24.4	--	--	87.6	--	--	4.7	--	--
*GREAT LAKES 5922	24.4	23	25	121.8	136	134	0.8	2	4
STAUFFER SEEDS S5650	24.5	22	--	91.7	119	--	4.7	5	--
*O'S GOLD 6882	24.5	23	26	111.7	133	137	4.2	3	4
CUSTOM CFS 1450	24.5	22	--	81.8	119	--	3.0	5	--
DEKALB-PFIZER XL-32A	24.6	22	23	96.1	121	118	2.5	4	4
*GRIES GSF-500	24.7	--	--	104.3	--	--	3.2	--	--
P-A-G SX275	24.7	--	--	90.0	--	--	4.3	--	--
*GARNO S-102	24.8	23	25	115.8	135	135	1.4	3	3
*DEKALB-PFIZER XL-55A	24.9	22	24	109.9	139	139	3.9	4	5
*PAYCO SX824	24.9	23	--	118.2	123	--	2.8	7	--
*FUNK G-4438	25.0	23	--	117.5	135	--	0.8	3	--
GREAT LAKES GL-547	25.0	--	--	94.0	--	--	3.8	--	--
CARGILL 867	25.0	--	--	88.2	--	--	2.3	--	--
*SELECT 4600	25.1	--	--	126.6	--	--	2.1	--	--
DAIRYLAND EXP. 82-109	25.1	--	--	88.1	--	--	2.9	--	--
ANDERSONS PSX105	25.2	--	--	80.7	--	--	5.9	--	--
DAIRYLAND DX1008	25.3	22	24	82.0	119	118	0.0	3	6
SUPER CROST 4337	25.4	--	--	96.5	--	--	5.1	--	--
DEKALB-PFIZER T1100	25.8	23	26	92.5	111	113	3.8	8	6
PAYCO SX925	26.0	--	--	71.3	--	--	0.8	--	--
*CUSTOM CFS 6007	26.1	24	26	115.1	134	134	4.1	4	3
CUSTOM CFS W5410	26.1	--	--	76.1	--	--	1.6	--	--
*BECK'S 60X	26.2	23	25	121.3	128	121	8.3	6	6
CARGILL 921	26.3	--	--	98.6	--	--	1.5	--	--
*JACQUES JX179	26.5	--	--	127.8	--	--	4.7	--	--
*SUPER CROST 5438	26.6	--	--	127.1	--	--	3.9	--	--
*BO-JAC 601	26.7	--	--	131.5	--	--	5.0	--	--
*PAYCO SX900	26.7	25	--	130.7	147	--	2.4	2	--
*MFI 1900	26.7	--	--	106.1	--	--	4.0	--	--
*GREAT LAKES GL-592	26.8	--	--	125.3	--	--	2.2	--	--
*PAYCO SX860	27.1	24	27	124.2	136	130	5.1	5	6
*DAIRYLAND DX1017	27.2	--	--	132.1	--	--	2.8	--	--
*BECK'S 65X	27.9	--	--	120.0	--	--	2.2	--	--
DAIRYLAND DX1012	29.2	25	27	101.0	115	115	7.6	8	6
Average	23.6	22	24	92.7	121	122	3.9	4	5
Range	19.1	19	21	62.4	98	107	0.0	2	3
	to	to	to	to	to	to	to	to	to
	29.2	25	27	132.1	147	139	9.8	8	9
Least significant difference	1.6	1.0	0.8	8.9	7	5	--	--	--

*Significantly better than average yield in 1983

	1983	1982	1981
Planted	May 12	May 4	May 19
Harvested	October 18	October 22	October 30
Soil Type	Kalamazoo loam	Kalamazoo loam	Kalamazoo loam
Previous crop	Corn	Corn	Corn
Population	21,300	21,700	21,500
Rows	30"	30"	30"
Fertilizer	122-48-114	122-39-39	101-45-122
Soil test: pH	5.9	5.8	5.8
P	124 (very high)	67 (medium high)	68 (medium high)
K	286 (high)	82 (low)	196 (medium)

Farm cooperator: Richard Van Vranken, Climax

County Extension Director: Gale Arent, Kalamazoo

Table 5 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
ASGROW RX532	17.7	--	--	141.2	--	--	11.9	--	--
CALLAHAN C728	17.7	--	--	113.8	--	--	3.0	--	--
SUPER CROST 2790	17.8	18	20	134.8	149	156	0.0	1	3
KING K4474	17.9	--	--	115.4	--	--	9.7	--	--
RUPP XR1591	17.9	18	19	142.3	137	140	7.0	8	8
MFI 1776	17.9	--	--	120.0	--	--	7.0	--	--
CROW'S 199	18.1	18	--	137.0	145	--	2.8	4	--
CARGILL 862	18.3	18	19	140.8	149	143	7.6	6	8
DEKALB-PFIZER T950	18.3	18	--	145.3	138	--	9.0	7	--
MFI 1855	18.3	--	--	154.4	--	--	10.8	--	--
DEKALB-PFIZER DK-484	18.4	--	--	157.6	--	--	4.4	--	--
DEKALB-PFIZER XL-32A	18.5	19	--	141.0	157	--	1.4	3	--
FUNK G-4323	18.5	19	20	141.7	152	155	6.0	7	7
PIONEER 3744	18.5	19	20	147.4	157	153	6.9	5	4
CARGILL 861	18.5	18	--	151.4	150	--	4.5	6	--
DAIRYLAND DX1006	18.5	--	--	152.8	--	--	4.2	--	--
PAYCO SX715	18.5	--	--	144.9	--	--	4.3	--	--
FARMERS FCC224A	18.5	19	20	143.5	159	155	3.4	5	7
CUSTOM CFS W1450	18.5	--	--	142.8	--	--	2.1	--	--
GREAT LAKES GL-516	18.6	18	--	142.6	145	--	9.2	9	--
GOLDEN HARVEST H-2440	18.6	19	19	150.5	141	146	8.1	9	7
P-A-G SX239	18.7	--	--	143.5	--	--	8.6	--	--
SELECT 3222S	18.7	--	--	153.5	--	--	4.2	--	--
*CARGILL 867	18.7	--	--	163.1	--	--	1.4	--	--
PARKER 32	18.7	--	--	132.2	--	--	14.1	--	--
*RUPP XR1639	18.7	19	--	163.3	168	--	4.3	3	--
GREAT LAKES GL-552	18.8	20	21	153.1	167	169	2.8	3	4
*P-A-G SX195	18.8	--	--	163.1	--	--	6.7	--	--
PAYCO SX620	18.8	--	--	121.3	--	--	6.3	--	--
BECK'S 40X	18.8	18	19	142.1	145	152	7.4	9	7
STAUFFER SEEDS S5340	18.9	--	--	152.7	--	--	1.4	--	--
VORIS V2451	18.9	--	--	136.2	--	--	2.2	--	--
DEKALB-PFIZER T1000	19.0	19	20	138.7	137	138	6.4	12	11
LYNKES LX4115	19.0	--	--	140.8	--	--	2.1	--	--
*FARMERS FCC251	19.0	--	--	172.5	--	--	5.6	--	--
CALLAHAN C744	19.0	--	--	134.8	--	--	6.4	--	--
DAIRYLAND DX1007	19.1	20	21	158.5	167	173	0.0	2	3
DAIRYLAND DX1008	19.1	19	20	141.4	151	148	4.4	4	5
*DEKALB-PFIZER XL-55A	19.2	21	22	163.5	178	178	4.3	6	6
PIONEER 3747	19.2	19	--	154.3	163	--	2.2	2	--
KING K5511	19.2	21	--	141.7	159	--	2.3	2	--
LOWE LSX217	19.2	20	21	133.4	139	146	5.8	7	7
STAUFFER SEEDS S5650	19.3	20	--	149.0	165	--	2.1	1	--
SUPER CROST 3030	19.3	20	--	134.1	150	--	5.7	5	--
*GREAT LAKES GL-547	19.3	--	--	162.5	--	--	2.9	--	--
ANDERSONS PSX109	19.3	--	--	137.0	--	--	4.6	--	--
PIONEER 3572	19.4	19	20	149.5	171	172	0.7	1	1
SELECT 3300	19.4	20	21	135.1	158	156	4.3	5	6
CARGILL 836	19.4	--	--	116.0	--	--	10.0	--	--
LOWE LSX222	19.4	19	20	150.8	157	152	6.4	5	7
DAIRYLAND DX1105	19.4	20	--	149.0	158	--	2.3	4	--
O'S GOLD 1170A	19.4	--	--	134.0	--	--	2.2	--	--
LOWE LSX247	19.5	--	--	143.7	--	--	2.1	--	--
PAYCO SX872	19.5	--	--	135.5	--	--	3.1	--	--
*BECK'S 49X	19.5	20	--	164.1	174	--	2.1	2	--
RUPP XR1690	19.6	20	21	134.1	152	152	2.8	3	4
PAYCO SX722	19.6	19	--	159.5	158	--	3.5	4	--
MFI 1812	19.6	--	--	164.5	--	--	5.4	--	--
GRIES GSF-500	19.7	--	--	149.9	--	--	3.6	--	--
*PRAIRIE STREAM SX34	19.7	19	--	163.4	154	--	9.1	6	--
JACQUES JX167	19.8	--	--	143.5	--	--	10.1	--	--
GOLDEN HARVEST H-2448	19.8	20	21	146.6	153	154	2.2	3	3
VORIS V2472	19.8	21	21	155.1	169	166	2.2	3	3
CALLAHAN C755	19.8	--	--	140.1	--	--	3.6	--	--
LEADER SX495	19.9	20	--	159.3	158	--	0.7	1	--
*PIONEER 3707	19.9	20	--	177.2	176	--	1.4	3	--
KING K4464	19.9	--	--	126.2	--	--	8.5	--	--
SELECT 4700	19.9	21	22	148.0	159	165	7.4	7	6
FUNK G-4342	20.0	20	--	159.2	156	--	3.2	5	--
GREAT LAKES GL-579	20.0	--	--	157.0	--	--	3.5	--	--
PAYMASTER 4790	20.0	20	--	149.1	162	--	3.0	3	--
CARGILL 891	20.0	--	--	154.5	--	--	3.9	--	--
GOLDEN HARVEST H-2480	20.0	--	--	136.4	--	--	2.8	--	--
CUSTOM CFS W5410	20.0	21	22	132.9	149	160	6.1	6	6
DEKALB-PFIZER DK-556	20.1	--	--	147.7	--	--	3.9	--	--
*P-A-G EXP. 111571	20.1	--	--	163.2	--	--	0.7	--	--
KING K5533	20.1	--	--	125.4	--	--	3.6	--	--
GOLDEN HARVEST EX586	20.1	--	--	143.6	--	--	4.2	--	--
BECK'S 45X	20.1	19	20	149.9	145	148	4.1	3	4
ANDERSONS PSX108	20.2	--	--	149.5	--	--	2.9	--	--
CALLAHAN C767	20.2	--	--	131.8	--	--	3.5	--	--
CROW'S 444	20.3	20	--	156.1	156	--	3.6	5	--
CUSTOM CFS E95004	20.3	--	--	150.4	--	--	7.1	--	--
GREAT LAKES B3472	20.3	--	--	159.1	--	--	0.8	--	--
*P-A-G SX275	20.4	--	--	163.9	--	--	3.6	--	--

(continued)

Table 5 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
*BO-JAC 432	20.5	21	--	145.0	167	--	5.6	4	--
RUPP XR1780	20.5	22	23	148.9	155	159	3.6	2	3
*ANDERSONS PSX105	20.5	--	--	159.4	--	--	5.0	--	--
GREAT LAKES 5922	20.5	21	21	162.3	181	180	0.0	3	4
CROWN'S 431	20.6	--	--	147.0	--	--	3.6	--	--
LEADER SX575	20.8	22	--	151.5	163	--	2.1	3	--
*CARGILL 921	20.9	21	23	167.9	181	185	4.8	5	5
*O'S GOLD 6882	21.0	21	22	167.7	180	174	4.3	4	4
SUPER CROST 4337	21.1	22	--	151.5	157	--	1.4	3	--
GARNO S-102	21.2	--	--	159.2	--	--	1.4	--	--
*BO-JAC 452	21.2	21	--	174.2	179	--	2.9	3	--
VORIS V2491	21.2	22	23	141.6	163	166	2.2	1	2
PAYCO SX824	21.3	21	--	155.3	167	--	1.4	1	--
CUSTOM CFS 6007	21.3	21	22	158.5	162	163	2.2	2	6
*GREAT LAKES GL-592	21.4	--	--	166.3	--	--	0.7	--	--
DEKALB-PFIZER T1100	21.4	22	23	145.0	154	159	5.1	3	4
*CALLAHAN C766	21.4	--	--	172.0	--	--	3.0	--	--
*FUNK G-4435	21.5	22	23	170.6	180	172	2.9	3	4
PAYCO SX860	21.6	22	23	151.8	175	169	4.1	3	4
*BECK'S 60X	21.6	22	23	163.9	168	164	1.5	4	4
PARKER 60A	21.7	21	22	148.3	172	167	1.4	3	3
MFI 1976	21.7	--	--	141.9	--	--	5.7	--	--
*JACQUES JX179	21.8	22	--	172.5	175	--	2.8	3	--
SELECT 4800	21.8	21	23	155.6	175	178	3.7	2	2
LYNKS LX4315	21.8	22	23	136.0	157	158	2.2	2	3
PRAIRIE STREAM SX50	22.0	--	--	144.6	--	--	3.0	--	--
*BECK'S 65X	22.0	23	--	176.5	197	--	0.7	1	--
PAYCO SX925	22.1	--	--	128.3	--	--	0.7	--	--
*BO-JAC 601	22.2	--	--	180.3	--	--	0.7	--	--
*DAIRYLAND DX1017	22.3	--	--	163.4	--	--	2.8	--	--
LOWE LSX317	22.6	23	23	159.7	163	164	0.7	2	3
*LYNKS LX4225	22.6	21	--	165.9	178	--	2.8	3	--
*FUNK G-4438	22.7	22	--	169.3	177	--	2.2	5	--
*PAYCO SX900	22.8	23	--	166.9	186	--	1.4	1	--
*BO-JAC 5601	22.9	23	--	166.0	187	--	2.1	2	--
SELECT 5188	22.9	23	--	157.4	184	--	2.0	3	--
*GOLDEN HARVEST H-2500	23.5	24	24	172.3	187	187	1.4	3	3
Average	19.8	20	21	149.2	162	160	4.1	4	5
Range	17.1	17	18	113.8	137	136	0.0	1	1
	to	to	to	to	to	to	to	to	to
	23.5	24	24	180.3	197	187	14.1	12	11
Least significant difference	1.4	0.9	0.7	13.2	9	6	--	--	--

*Significantly better than average yield in 1983

	1983	1982	1981
Planted	May 12	May 11	May 19
Harvested	October 17	October 25	November 2
Soil Type	Oshemo sandy loam	Oshemo sandy loam	Oshemo sandy loam
Previous crop	Corn	Corn	Corn
Population	23,400	23,500	23,200
Rows	30"	30"	30"
Fertilizer	224-80-103	214-80-103 + manure	268-80-135+2n
Irrigation	11 inches	4 inches	6 inches
Soil test: pH	6.4	6.5	6.8
	206(very high)	96(high)	241(very high)
	K	396(very high)	352(very high)

Farm cooperator: Dave Cripe, Cassopolis

County Agricultural Agent: Wayne Nothem, Cassopolis

Table 6 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
KING K4423	20.4	--	--	87.6	--	--	3.0	--	--
*DEKALB-PFIZER T950	20.6	--	--	106.3	--	--	5.1	--	--
*LYNKS LX4075	20.7	25	23	98.8	106	102	3.6	4	3
LYNKS LX4100	20.7	27	25	78.9	90	95	1.5	3	5
*PIONEER 3780	21.1	26	25	102.0	99	105	1.4	3	5
*KING K4422	21.1	--	--	100.7	--	--	2.8	--	--
*P-A-G SX239	21.3	--	--	68.2	--	--	3.2	--	--
KING K4464	21.3	--	--	69.6	--	--	2.3	--	--
ASGROW RX532	21.5	--	--	93.9	--	--	2.2	--	--
*PAYCO SX715	21.5	--	--	97.0	--	--	5.7	--	--
FUNK G-4256	21.6	24	24	82.3	96	97	6.5	7	9
DAIRYLAND DX1003	21.7	--	--	89.2	--	--	2.8	--	--
*RUPP XR1639	21.7	28	--	100.0	94	--	0.7	1	--
GREAT LAKES GL-516	21.8	28	26	93.1	94	106	3.6	4	6
PAYCO SX872	21.8	--	--	93.5	--	--	2.9	--	--
*VORIS V2451	21.8	--	--	110.8	--	--	2.2	--	--
BECK'S 49X	21.8	--	--	94.3	--	--	0.7	--	--
*P-A-G SX193	21.9	--	--	87.0	--	--	5.0	--	--
DEKALB-PFIZER XL-25A	22.2	28	--	83.6	85	--	1.5	1	--
*DAIRYLAND DX1006	22.2	27	--	98.0	87	--	4.4	3	--
GOLDEN HARVEST H-2440	22.2	28	--	92.8	86	--	3.7	3	--
*RUPP XR1690	22.3	28	27	105.6	97	101	2.1	2	3
*P-A-G SX243	22.5	--	--	97.9	--	--	2.4	--	--
DAIRYLAND DX1105	22.6	27	--	78.9	92	--	2.2	3	--
ANDERSONS PSX105	22.6	--	--	72.3	--	--	2.2	--	--
DEKALB-PFIZER T1000	23.1	--	--	84.7	--	--	6.0	--	--
BO-JAC 432	23.3	29	--	85.9	104	--	2.3	1	--
*PAYCO SX722	23.9	29	--	102.9	99	--	2.2	2	--
*GREAT LAKES 5922	23.9	28	26	104.7	106	113	0.9	3	5
PAYCO SX925	24.1	--	--	69.3	--	--	3.1	--	--
DEKALB-PFIZER XL-55A	24.6	29	--	91.6	96	--	1.5	4	--
RUPP XR1780	24.7	30	30	70.1	81	85	5.1	3	3
*DEKALB-PFIZER T1100	25.0	--	--	96.5	--	--	1.5	--	--
PAYCO SX824	25.5	30	--	74.0	95	--	0.9	2	--
PAYCO SX860	25.6	31	29	76.6	96	101	2.2	2	4
BECK'S 65X	27.3	--	--	70.6	--	--	0.7	--	--
PAYCO SX900	28.0	32	--	88.2	102	--	0.8	0	--
Average	22.0	27	26	87.9	95	101	2.8	3	5
Range	17.4	24	23	65.7	79	85	0.7	0	3
	to	to	to	to	to	to	to	to	to
	28.0	32	30	110.8	107	113	6.5	7	9
Least significant difference	1.9	1.4	1.0	8.2	7	6	--	--	--

*Significantly better than average yield in 1983

	1983	1982	1981
Planted	May 26	June 9	May 23
Harvested	October 17	November 8	November 2
Soil Type	Palms muck	Houghton muck	Houghton muck
Previous crop	Corn	Corn	Corn
Population	21,200	21,800	21,400
Rows	38"	30"	30"
Fertilizer	145-60-60	105-15-30	129-29-104
Soil test: pH	6.1	5.2	5.2
	80(high)	60(very high)	45(very high)
	K	455(very high)	733(very high)

Farm cooperator: Warren Wooden, Cassopolis(1983); Oliver, Russell and Roger Anderson, Cassopolis(1982, 1981)

County Agricultural Agent: Warren Nothem, Cassopolis

Table 6

SOUTHERN MICHIGAN
Cass County Trial - Muck Soil
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
ANDERSONS PSX93	17.4	--	--	79.4	--	--	2.4	--	--
GOLDEN HARVEST H-2300	18.4	24	--	86.6	79	--	3.6	4	--
GREAT LAKES GL-466	18.9	24	--	93.5	97	--	4.3	4	--
DEKALB-PFIZER DK-484	19.3	--	--	92.9	--	--	2.3	--	--
PAYCO SX620	19.8	--	--	85.7	--	--	2.1	--	--
BO-JAC 14	20.0	25	--	78.5	97	--	2.2	4	--
*FUNK G-4342	20.2	27	--	110.1	107	--	3.0	2	--
PIONEER 3707	20.3	25	--	90.2	96	--	2.2	1	--
GOLDEN HARVEST H-2380	20.3	25	--	76.4	84	--	4.5	4	--
VORIS V2381	20.3	--	--	65.7	--	--	2.2	--	--

(continued)

Table 7

SOUTH CENTRAL MICHIGAN
Kent County Trial
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
STANTON SX1090	21.4	--	--	106.5	--	--	8.9	--	--
PAYCO SX620	21.5	--	--	106.0	--	--	9.2	--	--
ANDERSONS PSX93	21.6	--	--	104.3	--	--	2.3	--	--
PAYCO SX599	21.6	21	--	99.7	119	--	12.0	8	--
STAUFFER SEEDS S3306	21.7	--	--	131.7	--	--	5.8	--	--
KING K2203	21.9	--	--	93.6	--	--	11.9	--	--
KING K2204	22.0	--	--	101.4	--	--	5.6	--	--
DAIRYLAND DX1093	22.1	--	--	111.1	--	--	8.0	--	--
RUPP EXP.2-165	22.1	--	--	133.3	--	--	11.5	--	--
STAUFFER SEEDS S3242	22.2	21	--	113.9	136	--	5.8	3	--

(continued)

Table 7 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
FUNK 29097	22.2	--	--	130.6	--	--	15.0	--	--
GRIES GSF-215	22.2	--	--	120.4	--	--	10.2	--	--
GREAT LAKES GL-422	22.2	21	22	125.5	149	140	10.4	7	8
GOLDEN HARVEST H-2300	22.2	21	--	108.1	128	--	10.6	6	--
FUNK G-4256	22.4	21	23	115.5	137	137	8.8	8	6
GREAT LAKES GL-466	22.5	21	22	138.5	146	143	14.0	12	10
RUPP EXP. 3-209	22.5	--	--	117.2	--	--	11.2	--	--
STANTON SX1095	22.5	22	--	108.7	134	--	8.3	5	--
DAIRYLAND DX1091	22.8	--	--	102.6	--	--	4.5	--	--
CUSTOM CFS W3601	22.8	--	--	113.6	--	--	16.4	--	--
DEKALB-PFIZER T950	22.9	22	22	124.8	132	128	12.7	7	6
STAUFFER SEEDS S4402	23.0	22	22	142.9	151	147	14.8	9	6
FUNK 2008X	23.0	--	--	133.1	--	--	9.4	--	--
JACQUES JX97	23.0	22	--	139.1	153	--	13.2	7	--
WOLVERINE M166	23.0	21	21	121.2	141	135	7.8	7	7
KING K4423	23.0	--	--	138.1	--	--	5.1	--	--
GREAT LAKES GL-487	23.2	--	--	145.9	--	--	12.7	--	--
DAIRYLAND DX1094	23.3	--	--	124.3	--	--	4.8	--	--
DAIRYLAND DX1096	23.4	21	21	134.9	145	135	5.0	5	7
KING K4422	23.6	--	--	130.9	--	--	4.4	--	--
RUPP XR1591	23.6	23	23	139.8	148	140	14.6	8	7
CUSTOM CFS 4004	23.7	22	22	119.3	143	145	17.3	11	8
STANTON SX10100	23.9	23	--	128.7	153	--	10.0	6	--
NORTHROP KING PX9353	24.1	--	--	152.5	--	--	9.2	--	--
DAIRYLAND DX1003	24.1	22	22	133.3	134	137	9.5	5	5
DEKALB-PFIZER DK-484	24.3	--	--	144.9	--	--	11.0	--	--
PIONEER 3780	24.3	22	23	142.0	155	146	5.8	5	6
GOLDEN HARVEST M-2440	24.3	23	23	157.1	159	148	12.3	8	7
SUPER CROST 2396	24.4	22	--	128.8	145	--	11.8	6	--
NORTHROP KING PX9405	24.4	--	--	144.3	--	--	12.5	--	--
JACQUES JX151	24.5	23	--	148.2	155	--	10.9	7	--
P-A-G SX193	24.5	--	--	123.3	--	--	5.0	--	--
KING K5511	24.5	23	--	143.1	146	--	2.9	1	--
PIONEER 3744	24.6	23	23	150.2	160	150	3.0	2	2
KING K5533	24.6	--	--	122.3	--	--	7.3	--	--
PAYCO SX872	24.6	--	--	149.3	--	--	6.8	--	--
STAUFFER SEEDS S5340	24.7	--	--	141.8	--	--	5.6	--	--
DAIRYLAND DX1006	24.7	23	--	150.0	153	--	7.6	4	--
RUPP XR1625	24.7	23	24	156.2	165	159	3.8	2	3
FUNK G-4323	24.8	23	23	149.5	155	150	7.5	4	4
GREAT LAKES GL-552	24.8	--	--	155.8	--	--	2.9	--	--
GREAT LAKES GL-522	24.8	23	23	143.7	154	148	7.3	4	4
P-A-G SX243	24.8	--	--	149.7	--	--	10.3	--	--
DEKALB-PFIZER T1000	24.8	23	24	142.5	157	149	10.8	7	7
NORTHROP KING PX9415	24.9	--	--	127.3	--	--	18.4	--	--
KING K4464	24.9	--	--	125.2	--	--	5.3	--	--
DEKALB-PFIZER XL-25A	25.1	23	23	167.5	168	150	12.6	6	5
GARNO S-100	25.1	--	--	158.8	--	--	5.9	--	--
GREAT LAKES GL-547	25.1	--	--	154.0	--	--	5.7	--	--
DAIRYLAND DX1105	25.1	25	--	138.6	140	--	10.4	7	--
CUSTOM CFS 1450	25.1	24	--	129.5	149	--	12.0	6	--
SUPER CROST 2410	25.2	23	24	163.1	160	154	12.9	7	6
ANDERSONS PSX105	25.2	--	--	152.7	--	--	5.6	--	--
FUNK G-4342	25.4	23	--	163.6	170	--	4.5	4	--
GOLDEN HARVEST H-2448	25.4	23	24	149.7	151	148	4.3	3	4
DEKALB-PFIZER XL-32A	25.6	25	25	147.6	158	155	5.1	4	4
P-A-G SX239	25.6	--	--	166.6	--	--	9.5	--	--
O'S GOLD 1170A	25.6	24	--	155.7	166	--	3.8	2	--
GREAT LAKES 5922	25.6	23	24	151.9	161	157	0.8	3	3
DEKALB-PFIZER XL-55A	25.7	23	24	160.3	166	160	2.9	4	6
STAUFFER SEEDS S5650	25.9	23	--	155.2	150	--	5.1	3	--
CUSTOM CFS 5801	26.0	--	--	155.8	--	--	10.1	--	--
ANDERSONS PSX108	26.1	--	--	129.6	--	--	6.5	--	--
DAIRYLAND DX1008	27.0	24	24	162.4	156	151	3.9	3	4
O'S GOLD 6880	27.0	24	24	135.9	149	153	14.9	9	7
PAYCO SX860	27.8	25	26	172.2	177	163	16.2	9	7
Average	23.9	23	23	136.6	151	147	8.7	5	6
Range	21.4	to	to	93.6	to	to	0.8	to	to
	27.8	25	26	172.2	177	163	18.4	12	10
Least significant difference	1.5	1.0	0.7	10.9	8	5	--	--	--

*Significantly better than average yield in 1983.

	1982	1982	1981
Planted	May 16	May 6	May 7
Harvested	October 25	October 26	November 3
Soil Type	Belville loam	Belville loam	Belville loam
Previous crop	Corn	Wheat	Corn
Population	21,500	21,600	21,300
Rows	30"	30"	30"
Fertilizer	73-91-150manure, boron	114-53-96	119-82-60
Soil test: pH	5.8	6.6	6.6
P	92(high)	67(medium high)	347(very high)
K	269(high)	184(medium)	288(high)

Farm cooperators: Gerald Keyser, Caledonia
County Extension Director: Robert Knisely, Grand Rapids

Table 8

SOUTH CENTRAL MICHIGAN
Ottawa County Trial
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
WOLVERINE W126	23.1	23	--	75.0	98	--	7.2	8	--
DAIRYLAND DX1088	23.1	--	--	81.1	--	--	5.6	--	--
FUNK 29097	23.2	--	--	62.9	--	--	3.9	--	--
P-A-G SX179	23.2	--	--	66.3	--	--	7.9	--	--
DAIRYLAND DX1091	23.2	--	--	78.4	--	--	2.3	--	--
DAIRYLAND DX1093	23.2	--	--	79.4	--	--	5.4	--	--
DEKALB-PFIZER T950	23.2	23	23	76.9	104	104	3.5	6	10
PAYCO SX620	23.4	--	--	95.3	--	--	0.0	--	--
WOLVERINE W155	23.5	--	--	74.4	--	--	4.8	--	--
WOLVERINE W168	23.9	--	--	88.9	--	--	0.8	--	--
CUSTOM CFS W3610	24.3	25	--	88.8	111	--	2.3	6	--
SELECT 2600	24.6	--	--	93.2	--	--	6.2	--	--
DAIRYLAND DX1003	24.6	24	24	80.0	109	108	5.2	7	9
STANTON SX1090	24.7	--	--	68.2	--	--	3.7	--	--
GOLDEN HARVEST H-2300	24.9	24	--	69.0	101	--	7.2	7	--
PAYCO SX599	25.1	24	--	80.7	101	--	0.7	2	--
*STANTON SX1095	25.2	--	--	107.2	--	--	1.7	--	--
DAIRYLAND DX1094	25.3	--	--	66.6	--	--	3.7	--	--
*SELECT 2440	26.3	--	--	101.7	--	--	0.0	--	--
ANDERSONS PSX93	26.5	--	--	90.9	--	--	0.8	--	--
STANTON SX10100	26.7	--	--	82.2	--	--	6.0	--	--
*DEKALB-PFIZER T1000	26.9	26	26	116.6	134	121	1.5	6	7
*KING K4423	27.0	--	--	96.6	--	--	3.0	--	--
*PIONEER 3744	27.4	26	25	99.6	131	129	5.0	4	6
CUSTOM CFS 1450	27.4	27	27	87.9	126	121	2.3	3	7
DEKALB-PFIZER DK-484	27.6	--	--	79.5	--	--	5.0	--	--
*GREAT LAKES GL-466	27.8	26	25	102.2	121	119	1.5	7	10
*P-A-G SX195	27.8	--	--	96.2	--	--	3.0	--	--
*SUPER CROST 2410	27.9	27	27	105.6	123	119	3.3	5	7
GREAT LAKES GL-522	27.9	27	26	86.7	118	118	1.5	1	6
*FUNK 2008X	28.0	--	--	112.0	--	--	1.5	--	--
DAIRYLAND DX1006	28.0	27	--	86.7	114	--	0.8	3	--
*GARNO S-100	28.1	--	--	99.9	--	--	3.8	--	--
DAIRYLAND DX1096	28.1	26	25	82.5	108	105	0.0	6	15
*CUSTOM CFS 4003	28.1	--	--	96.4	--	--	4.3	--	--
*GREAT LAKES GL-487	28.3	--	--	114.5	--	--	4.8	--	--
*JACQUES 7700	28.4	--	--	115.4	--	--	3.0	--	--
DEKALB-PFIZER XL-25A	28.9	27	26	89.1	121	121	0.9	1	3
GREAT LAKES GL-552	28.9	28	27	94.3	130	125	0.8	2	6
SUPER CROST 2396	29.0	27	27	92.6	125	123	2.2	5	8
KING K4422	29.1	27	--	69.7	98	--	2.4	4	--
DAIRYLAND DX1007	29.2	28	--	80.3	120	--	4.6	3	--
PAYCO SX872	29.2	--	--	95.1	--	--	0.8	--	--
DEKALB-PFIZER XL-32A	29.4	28	27	85.9	121	119	0.0	5	9
*SELECT 3100	29.4	--	--	112.4	--	--	2.2	--	--
DAIRYLAND DX1105	29.4	29	--	103.1	132	--	1.5	3	--
GREAT LAKES 5922	29.4	27	27	94.3	128	126	0.8	1	2
*JACQUES JX151	29.7	28	--	98.9	122	--	2.9	3	--
FUNK G-4323	30.0	28	28	77.6	114	110	1.5	6	8
FUNK G-4342	30.1	28	--	70.7	115	--	0.7	2	--
P-A-G SX239	30.2	--	--	71.3	--	--	4.6	--	--
DEKALB-PFIZER T1100	30.3	--	--	68.3	--	--	6.0	--	--
CUSTOM CFS 5801	30.3	--	--	65.9	--	--	1.7	--	--
DEKALB-PFIZER XL-55A	30.5	28	28	88.2	120	119	2.3	7	8
P-A-G SX193	30.6	--	--	69.1	--	--	3.0	--	--
O'S GOLD 6882	30.6	29	--	75.7	116	--	1.6	1	--
GREAT LAKES GL-579	30.7	--	--	85.8	--	--	0.0	--	--
RUPP XR1639	30.9	28	--	77.0	112	--	1.5	2	--
GREAT LAKES GL-547	31.1	--	--	83.4	--	--	2.8	--	--
PAYCO SX860	31.5	30	--	78.4	118	--	3.1	3	--
ANDERSONS PSX105	31.7	--	--	74.5	--	--	0.0	--	--
Average	27.5	27	26	86.7	117	118	2.8	4	8
Range	23.1	23	23	62.9	98	104	0.0	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	31.7	30	28	116.6	134	129	7.9	8	15
Least significant difference	1.7	1.2	1.0	9.4	8	5	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

	1982	1982	1981
Planted	June 14	May 17	May 22
Harvested	October 25	November 4	November 5
Soil Type	Gilford and Sebewa loam	Gilford and Sebewa loam	Gilford and Sebewa loam
Previous Crop	Corn	Corn	Corn
Population	21,200	21,400	20,900
Rows	30*	30*	30*
Fertilizer	12-48-48	110-41-41	109-34-34
Soil Test:	pH 6.3	6.2	6.1
	P 219 (very high)	67 (medium high)	160 (very high)
	K 337 (very high)	171 (medium)	460 (very high)

Table 9

SOUTH CENTRAL MICHIGAN
Ingham County Trial - Grain
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
KING K2203	21.7	--	--	73.4	--	--	1.5	--	--
KING K2204	21.8	--	--	69.8	--	--	2.1	--	--
RUPP EXP. 3-209	22.3	--	--	89.5	--	--	3.5	--	--
SUPER CROST 1940	22.5	23	--	84.6	108	--	5.7	4	--
SELECT 3100	23.1	--	--	98.2	--	--	5.3	--	--
ANDERSONS PSX93	23.1	--	--	78.3	--	--	6.5	--	--
PAYCO SX599	23.1	23	--	91.4	102	--	3.9	2	--
RUPP XR1591	23.2	--	--	105.2	--	--	6.6	--	--
GRIES GSF-215	23.3	--	--	91.5	--	--	4.0	--	--
STANTON SX1095	23.3	--	--	90.9	--	--	4.3	--	--
CALLAHAN 18176	23.3	--	--	96.0	--	--	2.9	--	--
MF1 1492	23.3	--	--	87.7	--	--	4.5	--	--
DEKALB-PFIZER EX-2120	23.4	23	--	98.0	126	--	5.1	3	--
FUNK 2008X	23.5	--	--	85.0	--	--	4.6	--	--
CARGILL 861	23.6	--	--	71.5	--	--	4.3	--	--
*DEKALB-PFIZER DK-484	23.7	--	--	114.8	--	--	5.5	--	--
CALLAHAN C738	23.7	--	--	81.5	--	--	6.5	--	--
PAYCO SX620	23.8	--	--	101.9	--	--	2.3	--	--
GREAT LAKES GL-422	24.0	23	23	109.2	130	124	4.3	2	11
CALLAHAN C728	24.0	--	--	105.9	--	--	1.7	--	--
STAUFFER SEEDS S4402	24.1	23	--	95.1	115	--	8.8	4	--
SELECT 2440	24.5	--	--	102.8	--	--	2.2	--	--
STANTON SX1090	24.7	--	--	76.7	--	--	5.3	--	--
GOLDEN HARVEST H-2300	24.7	24	--	96.4	112	--	4.6	2	--
GREAT LAKES GL-466	24.8	24	--	105.7	129	--	8.9	4	--
CALLAHAN C744	24.9	--	--	93.3	--	--	7.6	--	--
P-A-G SX239	25.0	--	--	77.1	--	--	7.0	--	--
FUNK G-4342	25.1	25	--	85.4	117	--	3.5	3	--
MF1 1776	25.1	--	--	94.0	--	--	2.3	--	--
PIONEER 3747	25.2	24	--	103.0	127	--	6.3	3	--
KING K4423	25.2	--	--	89.2	--	--	5.7	--	--
KING K4474	25.3	--	--	102.3	--	--	4.2	--	--
SUPER CROST 2410	25.4	26	27	98.6	123	132	3.5	3	2
FUNK 29097	25.7	--	--	97.9	--	--	11.8	--	--
NORTHUP KING PX9353	25.7	--	--	92.6	--	--	1.5	--	--
*PIONEER 3707	25.7	24	--	116.9	138	--	1.5	1	--
FUNK G-4256	25.8	24	25	86.2	106	110	3.6	3	3
GREAT LAKES GL-516	25.8	24	--	102.9	123	--	5.7	4	--
CARGILL 836	25.8	--	--	99.0	--	--	6.1	--	--
*PIONEER 3744	26.1	25	25	124.2	139	143	6.7	3	5
ASGROW RX532	26.1	--	--	97.0	--	--	6.1	--	--
DAIRYLAND DX1003	26.2	25	26	73.2	102	108	3.1	2	9
PAYMASTER 2990	26.4	25	26	111.7	130	135	3.8	3	2
RUPP XR1690	26.4	--	--	111.7	--	--	4.8	--	--
JACQUES JX151	26.5	25	--	97.0	113	--	10.9	6	--
*GREAT LAKES GL-547	26.5	--	--	114.8	--	--	3.0	--	--
*RENN RK66	26.5	26	28	119.4	140	137	1.5	1	6
*VORIS EX1160	26.5	--	--	119.9	--	--	3.0	--	--
*DEKALB-PFIZER XL-25A	26.6	25	--	117.7	125	--	2.1	1	--
RUPP EXP. 2-165	26.6	--	--	102.2	--	--	4.0	--	--
GREAT LAKES GL-477	26.6	26	26	110.2	131	134	3.6	3	3
GRIES GSF-240	26.7	--	--	94.9	--	--	4.8	--	--
KING K4422	26.7	--	--	93.9	--	--	5.3	--	--
*RUPP XR1639	26.7	--	--	115.7	--	--	5.0	--	--
RENN RK60	26.8	--	--	111.9	--	--	5.2	--	--
WOLVERINE W174A	26.9	26	27	99.1	119	125	1.5	1	2
NORTHUP KING PX9405	26.9	--	--	85.7	--	--	7.8	--	--
LOWE LSX117	26.9	25	26	91.4	113	118	5.2	3	4
WOLVERINE W166	27.0	--	--	91.2	--	--	5.3	--	--
P-A-G SX193	27.0	--	--	83.8	--	--	6.8	--	--
*P-A-G SX243	27.3	--	--	120.6	--	--	0.7	--	--
DEKALB-PFIZER T950	27.4	24	25	94.8	110	116	5.8	3	3
LOWE LSX222	27.5	26	28	105.3	120	116	3.0	2	8
DAIRYLAND DX1006	27.5	26	--	97.5	119	--	9.0	5	--
LOWE LSX217	27.8	28	29	89.2	110	113	4.9	2	4
*FARMERS FCC224A	27.8	27	28	118.3	145	143	3.0	2	2
MF1 1812	28.0	--	--	99.3	--	--	7.7	--	--
*FUNK G-4323	28.1	27	28	115.5	133	139	2.4	2	1
RENN RK24	28.1	27	27	87.4	108	115	7.0	4	4
DEKALB-PFIZER T1000	28.1	26	28	113.1	129	131	8.4	5	4
STANTON SX10100	28.1	--	--	86.8	--	--	5.8	--	--
KING K4464	28.2	--	--	97.0	--	--	6.9	--	--
*VORIS V2451	28.3	--	--	133.3	--	--	2.5	--	--
MCKENZIE 411	28.4	--	--	106.8	--	--	3.8	--	--
PAYCO SX872	28.4	--	--	98.6	--	--	7.3	--	--
*O'S GOLD 1170A	28.4	28	--	115.5	135	--	2.9	3	--
GOLDEN HARVEST H-2440	28.4	26	27	88.9	112	129	5.3	3	3
GREAT LAKES GL-522	28.5	27	28	112.2	132	143	1.7	1	2
CARGILL 861	28.6	--	--	96.6	--	--	8.2	--	--
CALLAHAN C755	28.6	--	--	103.9	--	--	2.7	--	--
*SELECT 3300	28.7	--	--	122.5	--	--	2.6	--	--
JACQUES JX167	28.9	--	--	99.5	--	--	2.4	--	--
*ANDERSONS PSX105	28.9	--	--	118.3	--	--	3.8	--	--
*GREAT LAKES 5922	28.9	28	29	127.0	147	152	3.8	2	3
*DEKALB-PFIZER XL-55A	29.1	27	28	131.7	152	154	1.4	1	1

Table 9 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
*NORTHUP KING PX9415	29.3	27	28	118.1	136	147	2.2	1	5
*GOLDEN HARVEST H-2448	29.5	29	30	116.4	125	131	6.5	3	6
*GARDN S-100	29.6	27	29	116.6	137	139	4.5	2	3
*FUNK G-4438	29.7	--	--	122.4	--	--	3.0	--	--
NORTHUP KING PX9415	29.9	27	--	107.6	118	--	2.1	1	--
FUNK G-4315	30.0	27	28	98.6	120	128	3.7	3	4
*STAUFFER SEEDS S5650	30.1	28	--	114.4	141	--	2.5	1	--
*DAIRYLAND DX1007	30.1	28	28	117.0	137	134	2.9	1	2
STAUFFER SEEDS S5340	30.2	--	--	108.6	--	--	3.8	--	--
DAIRYLAND DX1008	30.6	28	28	100.1	127	130	2.6	2	3
*O'S GOLD 2570	30.6	--	--	135.5	--	--	0.7	--	--
FARMERS FCC251	30.9	--	--	100.6	--	--	2.9	--	--
SUPER CROST 4337	31.1	--	--	98.3	--	--	3.1	--	--
VORIS V2491	31.1	30	31	103.9	129	140	3.7	2	2
*RENN RK76	31.3	--	--	133.1	--	--	2.3	--	--
JACQUES 7700	31.5	--	--	103.9	--	--	2.2	--	--
P-A-G SX275	31.5	--	--	103.1	--	--	1.5	--	--
LOWE LSX237	31.5	29	30	110.6	123	125	3.0	2	2
*O'S GOLD 6882	31.5	30	--	116.1	139	--	2.4	1	--
*KING K5511	31.9	--	--	120.1	--	--	1.5	--	--
VORIS V2331	31.9	27	27	86.0	112	122	4.6	3	3
CARGILL 867	32.0	--	--	99.2	--	--	0.0	--	--
*GOLDEN HARVEST H-2500	32.7	31	32	118.0	141	137	2.2	1	3
*CALLAHAN C766	32.8	--	--	122.9	--	--	4.5	--	--
PAYCO SX860	33.7	31	--	106.9	140	--	2.2	1	--
RENN RK75	34.2	32	--	111.0	128	--	2.9	2	--
Average	27.2	26	28	102.5	125	131	4.3	2	4
Range	21.7	23	23	69.8	102	108	0.0	1	1
	34.2	32	32	135.5	152	154	11.8	6	4
Least significant difference	1.8	1.2	0.7	11.1	9	6	--	--	--

*Significantly better than average yield in 1983

	1983	1982	1981
Planted	April 27	April 26	May 1
Harvested	October 11	October 14	October 8
Soil Type	Capac loam	Capac loam	Capac loam
Previous crop	Corn	Corn	Corn
Population	21,300	21,400	21,000
Rows	36"	36"	36"
Fertilizer	165-50-50	170-60-60	165-50-50
Soil test: pH	5.9	6.3	6.5
P	186(very high)	83(high)	119(very high)
K	215(high)	210(high)	224(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 - 1983, 1982, 1981

ZONE 2

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			TONS PER ACRE			DRY WEIGHT		
	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR
STANTON SX1095	52.1	--	--	9.2	--	--		4.8	--	--		
MF1 1492	47.9	--	--	9.8	--	--		4.7	--	--		
SELECT 2440	47.6	--	--	10.9	--	--		5.2	--	--		
RUPP EXP. 3-209	43.1	--	--	10.5	--	--		4.6	--	--		
CALLAHAN C728	42.7	--	--	12.8	--	--		5.5	--	--		
CALLAHAN 18176	42.6	--	--	13.2	--	--		5.6	--	--		
DAIRYLAND DX1003	42.2	41.0	42.1	12.3	14.7	14.8		5.2	6.0	6.2		
FUNK G-4342	42.0	40.4	--	12.6	17.4	--		5.2	6.9	--		
GREAT LAKES GL-422	41.9	45.0	44.5	12.9	14.5	14.6		5.4	6.5	6.4		
CARGILL 836	40.6	36.0	35.3	11.4	17.8	16.9		4.7	6.2	5.8		
ANDERSONS PSX93	40.6	--	--	11.3	--	--		4.6	--	--		
RUPP EXP. 2-165	40.2	--	--	14.2	--	--		5.7	--	--		
STAUFFER SEEDS S4402	39.8	40.7	--	14.2	17.5	--		5.6	7.1	--		
PAYCO SX620	39.6	--	--	13.6	--	--		5.4	--	--		
GOLDEN HARVEST H-2300	39.6	38.8	--	11.7	15.7	--		4.7	6.1	--		
GRIES GSF-215	39.5	--	--	12.0	--	--		4.7	--	--		
DEKALB-PFIZER EX-2120	39.3	37.5	--	14.2	18.4	--		5.6	6.8	--		
GREAT LAKES GL-466	39.3	39.1	--	13.8	17.3	--		5.4	6.7	--		
RUPP XR1591	38.9	--	--	15.4	--	--		6.0	--	--		
LOWE LSX117	38.8	37.5	38.7	14.5	16.9	16.8		5.6	6.3	6.4		
DEKALB-PFIZER XL-25A	38.7	38.3	--	13.2	17.5	--		5.1	6.6	--		
JACQUES JX151	38.6	37.1	--	14.5	17.3	--		5.6	6.4	--		
PAYMASTER 2990	38.6	37.1	--	16.0	18.3	--		6.2	6.7	--		
DEKALB-PFIZER T950	38.6	38.2	39.9	15.1	17.7	16.3		5.8	6.7	6.4		
KING K2204	38.5	--	--	12.1	--	--		4.7	--	--		

Table 10 (continued)

HYBRID (BRAND-VARIETY)	TONS PER ACRE					
	% DRY MATTER			GREEN WEIGHT		
	1983	2	3	1983	2	3
	YR	YR	YR	YR	YR	YR
NORTHROP KING PX9415	38.4	38.8	--	15.9	19.2	--
MF1 1812	38.4	--	--	16.3	--	--
SUPER CROST 2410	38.3	39.4	39.1	14.8	16.7	16.8
SELECT 3100	38.2	--	--	14.5	--	--
CALLAHAN C744	38.2	--	--	14.0	--	--
KING K4474	37.9	--	--	13.6	--	--
SUPER CROST 1940	37.7	42.7	--	14.2	14.9	--
PIONEER 3747	37.7	38.1	--	15.0	18.0	--
KING K4422	37.7	--	--	15.0	--	--
KING K4423	37.6	--	--	13.6	--	--
FUNK G-4256	37.4	38.2	37.6	16.7	17.5	16.8
NORTHROP KING PX9353	37.4	--	--	14.4	--	--
FUNK 29097	37.3	--	--	15.1	--	--
CARGILL 861	37.3	--	--	14.5	--	--
RENK RK24	37.3	37.8	38.9	13.8	16.9	16.3
CALLAHAN C738	37.3	--	--	13.9	--	--
CARGILL 818	37.2	--	--	12.8	--	--
VORIS V2331	37.2	41.8	42.6	12.1	14.1	13.8
FUNK 2008X	37.1	--	--	15.0	--	--
WOLVERINE W166	37.1	--	--	14.5	--	--
PAYCO SX599	37.1	41.9	--	12.3	14.1	--
NORTHROP KING PX39	36.8	36.0	34.5	14.3	19.0	18.1
ASGROW RX532	36.8	--	--	12.0	--	--
PIONEER 3707	36.7	36.8	--	15.7	19.7	--
KING K2203	36.5	--	--	17.5	--	--
DEKALB-PFIZER T1000	36.5	35.8	35.9	14.3	16.9	16.6
FUNK G-4323	36.4	35.8	35.8	17.9	20.5	19.4
P-A-G SX239	36.4	--	--	13.3	--	--
PAYCO SX872	36.4	--	--	13.4	--	--
KING K5511	36.3	--	--	14.6	--	--
GOLDEN HARVEST H-2440	36.3	36.0	36.2	14.4	17.6	16.8
NORTHROP KING PX9405	36.2	--	--	14.4	--	--
DAIRYLAND DX1006	36.2	38.8	--	12.5	16.4	--
KING K4464	36.1	--	--	13.3	--	--
RENK RK60	36.1	--	--	15.5	--	--
STANTON SX1090	36.1	--	--	15.4	--	--
PAYCO SX860	36.1	37.2	--	14.2	18.3	--
DEKALB-PFIZER DK-484	35.9	--	--	15.0	--	--
LOWE LSX217	35.9	36.5	38.4	15.0	16.1	15.2
GRIES GSF-240	35.8	--	--	13.3	--	--
GOLDEN HARVEST H-2448	35.7	33.1	32.8	15.4	20.2	20.3
GREAT LAKES GL-477	35.6	35.7	--	16.5	20.9	--
STANTON SX10100	35.5	--	--	13.1	--	--
MF1 1776	35.5	--	--	14.9	--	--
P-A-G SX275	35.3	--	--	16.8	--	--
MCKENZIE 411	35.3	--	--	13.9	--	--
P-A-G SX243	35.2	--	--	17.3	--	--
STAUFFER SEEDS S5650	35.0	33.2	--	17.5	22.6	--
PIONEER 3744	35.0	36.8	37.5	16.5	18.9	17.8
RUPP XR1690	35.0	--	--	14.3	--	--
FARMERS FCC224A	35.0	35.2	35.1	18.3	22.2	21.5
GREAT LAKES GL-516	34.9	35.0	--	15.6	18.7	--
ANDERSONS PSX105	34.9	--	--	15.9	--	--
CARGILL 867	34.8	--	--	14.4	--	--
RUPP XR1639	34.6	--	--	17.9	--	--
SELECT 3300	34.5	--	--	14.6	--	--
DEKALB-PFIZER XL-55A	34.4	34.4	33.7	18.6	21.6	21.3
FUNK G-4438	34.3	--	--	15.4	--	--
WOLVERINE W174A	34.3	34.8	34.2	17.7	18.7	19.4
O'S GOLD 1170A	34.3	35.2	--	15.4	19.5	--
GREAT LAKES 5922	34.3	34.6	34.3	19.0	22.2	21.7
GREAT LAKES GL-547	34.0	--	--	17.1	--	--
P-A-G SX193	34.0	--	--	14.3	--	--
JACQUES 7700	33.8	--	--	15.1	--	--
FUNK G-4315	33.6	33.9	34.9	17.2	19.5	19.0
GREAT LAKES GL-522	33.5	--	--	17.0	--	--
O'S GOLD 6882	33.3	32.7	--	17.3	21.5	--
VORIS EX1160	32.9	--	--	16.8	--	--
GARNO S-100	32.8	32.8	34.2	18.0	21.8	20.8
DAIRYLAND DX1007	32.8	33.9	34.0	17.4	21.0	20.3
DAIRYLAND DX1008	32.7	32.0	34.5	16.2	20.5	19.5
VORIS V2451	32.6	--	--	15.3	--	--
SUPER CROST 4337	32.4	--	--	16.7	--	--
STAUFFER SEEDS S5340	32.3	--	--	15.1	--	--
FARMERS FCC251	31.9	--	--	16.8	--	--
LOWE LSX222	31.6	33.4	33.8	15.5	18.9	18.0
RENK RK66	31.6	31.7	32.5	17.1	21.3	20.6
CALLAHAN C755	31.3	--	--	19.0	--	--
JACQUES JX167	31.2	--	--	16.1	--	--
CALLAHAN C766	31.1	--	--	17.0	--	--
LOWE LSX237	31.0	32.5	33.1	16.1	19.9	19.0
RENK RK75	30.8	31.4	--	16.3	21.5	--
O'S GOLD 2570	30.6	--	--	20.4	--	--
GOLDEN HARVEST H-2500	30.4	30.4	29.9	19.5	23.7	22.9
RENK RK76	30.2	--	--	20.3	--	--

(continued)

Table 10 (continued)

HYBRID (BRAND-VARIETY)	TONS PER ACRE					
	% DRY MATTER			GREEN WEIGHT		
	1983	2	3	1983	2	3
	YR	YR	YR	YR	YR	YR
VORIS V2491	30.1	31.0	30.9	17.6	20.6	19.5
Average	36.4	36.4	36.0	14.9	18.6	18.3
Range	30.1	30.4	29.9	9.2	14.1	13.8
	to	to	to	to	to	to
	52.1	45.0	44.5	20.4	23.7	22.9
Least significant difference	3.1	2.1	1.4	2.0	1.5	1.1
				0.5	0.6	0.5

	1982	1982	1981
Planted	April 27	April 26	May 1
Harvested	September 7	September 8	September 10
Soil Type	Capac loam	Capac loam	Capac loam
Previous crop	Corn	Corn	Corn
Population	21,300	23,100	21,100
Rows	38"	38"	36"
Fertilizer	165-50-50	170-60-60	165-50-50
Soil test: pH	5.9	6.3	6.5
P	186(very high)	83(high)	119(very high)
K	215(high)	210(high)	224(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 - 1983, 1982, 1981

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
P-A-G SX111	22.9	22	23	124.4	118	117	2.8	2	5
PAYCO SX599	26.0	25	--	154.4	153	--	0.0	0	--
CUSTOM CFS 2004	26.0	--	--	149.4	--	--	7.5	--	--
GREAT LAKES GL-381	26.3	--	--	135.5	--	--	0.8	--	--
STANTON SX1090	26.4	25	--	150.6	135	--	0.7	1	--
CUSTOM CFS E92000	26.4	--	--	129.9	--	--	0.7	--	--
KING K2203	26.8	--	--	153.3	--	--	0.0	--	--
DAIRYLAND DX1088	26.8	26	--	140.2	126	--	0.0	0	--
PAYCO SX431	26.9	26	--	123.9	132	--	1.4	3	--
GREAT LAKES 81237	27.0	--	--	143.4	--	--	0.0	--	--
GREAT LAKES 82351	27.2	--	--	164.8	--	--	0.8	--	--
CUSTOM CFS W3003	27.4	--	--	144.5	--	--	1.4	--	--
GARNO S-90	27.5	28	28	157.0	149	139	0.0	1	1
ASGROW EXP. 1232	27.5	--	--	125.9	--	--	0.0	--	--
DAIRYLAND DX1096	27.5	29	28	159.3	149	137	0.7	1	5
STANTON SX1095	27.5	29	--	131.4	125	--	1.5	1	--
SUPER CROST 1542	27.6	--	--	132.9	--	--	1.4	--	--
RUPP EXP. 2-165	27.6	--	--	161.9	--	--	2.2	--	--
ANDERSONS PSX93	27.6	--	--	164.8	--	--	0.0	--	--
PAYCO SX620	27.6	--	--	156.4	--	--	0.7	--	--
*DEKALB-PFIZER EX-2120	27.7	29	--	177.6	155	--	0.7	0	--
KING 2203	27.7	--	--	141.0	--	--	0.0	--	--
WOLVERINE W126	27.8	27	--	126.7	134	--	5.7	3	--
DAIRYLAND DX1094	27.8	27	--	140.8	138	--	0.7	0	--
DAIRYLAND DX1091	27.8	--	--	137.6	--	--	0.0	--	--
GREAT LAKES GL-422	27.9	--	--	149.5	--	--	0.0	--	--
PIONEER 3901	28.4	27	27	157.2	158	148	0.0	0	0
FUNK 2008X	28.5	--	--	155.5	--	--	0.0	--	--
P-A-G SX155	28.6	--	--	124.6	--	--	0.0	--	--
ASGROW RX420	28.6	--	--	153.6	--	--	0.0	--	--
ASGROW RX418	28.7	--	--	138.7	--	--	7.0	--	--
O'S GOLD 2321	28.7	28	--	142.0	151	--	0.0	0	--
P-A-G SX177	28.8	28	28	152.1	159	149	3.4	2	1
GOLDEN HARVEST H-2300	28.8	29	--	151.0	148	--	0.0	--	--
FUNK G-4256	29.0	30	29	139.9	137	131	2.1	1	1
FUNK 29097	29.0	--	--	156.5	--	--	0.0	--	--
*PIONEER X7064	29.0	--	--	171.7	--	--	0.0	--	--
*RENK RK17	29.0	--	--	179.6	--	--	0.7	--	--
DAIRYLAND DX1093	29.3	--	--	161.1	--	--	3.5	--	--
NORTHROP KING PX9288	29.4	28	--	136.4	139	--	0.0	0	--
STAUFFER SEEDS S3406WX	29.7	30	--	144.4	147	--	0.0	0	--
P-A-G SX179	29.8	--	--	142.2	--	--	1.5	--	--
*DEKALB-PFIZER XL-25A	30.0	30	--	172.3	157	--	0.0	0	--
VORIS V2381	30.0	30	30	155.9	152	148	2.2	1	2
WOLVERINE W155	30.1	--	--	127.6	--	--	0.7	--	--
*PIONEER 3747	30.1	--	--	171.7	--	--	0.0	--	--
STAUFFER SEEDS S4402	30.3	30	30	157.4	145	138	0.7	1	0
*NORTHROP KING PX9301	30.4	--	--	172.9	--	--	0.0	--	--
*FUNK G-4342	30.5	31	--	178.8	168	--	1.4	1	--
WOLVERINE W168	30.5	--	--	158.1	--	--	0.8	--	--

(continued)

Table 11 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1983	YR	YR	1983	YR	YR	1983	YR	YR
O'S GOLD 2330	30.5	--	--	163.1	--	--	0.0	--	--
STANTON SX10100	30.7	31	--	128.1	145	--	0.0	0	--
*GREAT LAKES GL-487	30.8	--	--	192.1	--	--	1.4	--	--
STAUFFER SEEDS S4880	30.9	--	--	159.4	--	--	0.0	--	--
RUPP XR1591	30.9	--	--	163.3	--	--	0.0	--	--
*RUPP XR1639	31.0	--	--	180.9	--	--	0.0	--	--
GREAT LAKES GL-466	31.1	31	--	153.5	158	--	0.0	0	--
*KING K4422	31.2	--	--	176.0	--	--	0.7	--	--
KING K4423	31.2	--	--	156.9	--	--	0.0	--	--
DAIRYLAND DX1099	31.2	30	29	137.8	153	149	0.0	0	0
*PIONEER 3744	31.3	31	31	182.2	163	151	0.7	0	0
DAIRYLAND DX1003	31.3	30	30	158.3	147	141	0.0	0	0
RENN RK18	31.3	30	30	163.7	153	142	0.0	0	0
ASGROW RX532	31.6	--	--	163.8	--	--	0.7	--	--
JACQUES JX97	31.8	30	--	168.5	162	--	1.3	1	--
KALTENBERG KX55	31.8	30	30	167.1	142	142	0.7	0	1
NORTHUP KING PX9353	31.9	--	--	170.4	--	--	0.0	--	--
*DEKALB-PFIZER T950	32.0	31	30	175.8	158	146	0.7	1	1
VORIS V2331	32.0	31	31	154.1	148	142	0.0	0	1
SUPER CROST 1940	32.1	30	--	156.1	156	--	0.7	0	--
SUPER CROST 1950	32.1	31	31	146.0	154	142	0.7	1	1
CUSTOM CFS 3601	32.2	--	--	170.9	--	--	1.4	--	--
*DEKALB-PFIZER DK-484	32.3	--	--	176.1	--	--	0.7	--	--
*RENN RK60	32.4	--	--	186.4	--	--	0.0	--	--
DEKALB-PFIZER T1000	32.4	32	33	158.1	151	145	0.0	1	0
KALTENBERG KX51	32.4	--	--	156.8	--	--	1.4	--	--
*ANDERSONS PSX105	32.4	--	--	174.7	--	--	0.0	--	--
*RENN RK19	32.5	--	--	171.8	--	--	0.0	--	--
*GREAT LAKES 5922	32.5	32	32	184.7	173	162	0.0	0	0
STAUFFER SEEDS S5650	32.6	32	--	166.3	158	--	0.0	0	--
FUNK G-4323	32.7	33	33	157.2	151	150	0.0	0	1
RUPP XR1625	32.8	--	--	153.2	--	--	0.7	--	--
*GOLDEN HARVEST H-2480	32.8	--	--	172.9	--	--	2.9	--	--
*RENN RK24	32.9	32	32	179.9	169	151	0.7	0	0
*RENN RK66	32.9	33	33	186.8	167	162	0.0	1	0
DAIRYLAND DX1006	33.0	32	--	164.6	153	--	2.1	1	--
*VORIS V2451	33.2	--	--	177.3	--	--	0.8	--	--
JACQUES JX151	33.3	32	--	159.2	155	--	0.0	0	--
*GREAT LAKES GL-547	33.3	--	--	188.2	--	--	0.7	--	--
*SUPER CROST 2410	33.5	33	33	175.0	167	162	0.7	0	1
DAIRYLAND DX1105	33.5	34	--	152.6	137	--	0.0	1	--
VORIS V2411	33.5	33	33	158.3	159	154	1.4	1	0
*RUPP XR1690	33.6	--	--	175.2	--	--	0.0	--	--
GOLDEN HARVEST H-2500	33.6	35	35	167.7	165	158	0.7	1	0
RUPP XR1780	34.0	--	--	156.6	--	--	2.2	--	--
AVERAGE	30.1	30	30	158.0	150	146	0.8	1	1
RANGE	22.9	22	23	123.9	118	117	0.0	0	0
	70	70	70	70	70	70	70	70	70
	34.0	35	35	192.1	173	162	7.5	3	5
LEAST SIGNIFICANT DIFFERENCE	2.0	1.6	1.0	13.6	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

	1982	1982	1981
Planted	May 17	May 12	May 8
Harvested	October 20	October 27	November 8
Soil Type	Parkhill loam	Parkhill loam	Parkhill loam
Previous Crop	Corn	Corn	Corn
Population	21,100	20,700	21,200
Rows	30"	30"	30"
Fertilizer	155-91-181	204-75-186 + manure	133-140-72
Soil Test: pH	6.5	6.8	6.9
P	128 (very high)	70 (medium high)	119 (very high)
K	194 (medium)	129 (low)	224 (high)

Farm Cooperator: Ray Orchard, Applegate

County Extension Director: Rex Sieting, Sandusky

Table 12

NORTH CENTRAL MICHIGAN
Sanilac County Trial - Silage
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			TONS PER ACRE			ZONE 3		
	1983	YR	YR	1983	YR	YR	1983	YR	YR	1983	YR	YR
GREAT LAKES GL-381	37.8	--	--	15.7	--	--	5.9	--	--	--	--	--
P-A-G SX155	37.6	--	--	12.5	--	--	4.7	--	--	--	--	--
ASGROW EXP.1232	36.8	--	--	13.3	--	--	4.9	--	--	--	--	--
DAIRYLAND DX1088	36.1	34.2	--	15.9	16.9	--	5.7	5.7	--	--	--	--
WOLVERINE W126	35.9	36.6	--	16.7	17.4	--	6.0	6.4	--	--	--	--

Table 12 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR
VORIS V2381	35.6	34.4	33.7	17.4	18.9	17.0	6.2	6.5	5.7
P-A-G SX111	35.3	41.9	46.0	14.2	12.0	11.1	5.0	4.9	4.9
CUSTOM CFS 2004	35.3	--	--	17.2	--	--	6.1	--	--
PAYCO SX431	35.2	36.7	--	11.6	11.4	--	4.1	4.2	--
KING K2204	34.6	--	--	16.4	--	--	5.6	--	--
CUSTOM CFS E92000	34.4	--	--	13.9	--	--	4.8	--	--
RENN RK17	34.3	--	--	15.3	--	--	5.2	--	--
STANTON SX1090	34.1	32.8	--	15.4	16.5	--	5.3	5.4	--
STANTON SX1095	33.9	33.7	--	18.1	18.6	--	6.1	6.2	--
KALTENBERG KX55	33.8	31.9	34.3	17.7	20.6	17.9	6.0	6.5	6.0
ANDERSONS PSX93	33.7	--	--	17.0	--	--	5.7	--	--
WOLVERINE W155	33.1	--	--	15.4	--	--	5.1	--	--
GARNO S-90	33.0	34.4	38.7	17.5	18.6	16.1	5.8	6.4	6.0
DEKALB-PFIZER DK-484	32.7	--	--	19.3	--	--	6.3	--	--
KING K2203	32.7	--	--	17.0	--	--	5.5	--	--
RENN RK18	32.0	33.8	35.0	18.6	16.4	14.9	6.0	5.5	5.1
GREAT LAKES GL-422	31.9	--	--	17.6	--	--	5.6	--	--
GREAT LAKES 81237	31.9	--	--	17.2	--	--	5.5	--	--
DAIRYLAND DX1091	31.9	--	--	15.0	--	--	4.8	--	--
PAYCO SX620	31.9	--	--	17.6	--	--	5.6	--	--
O'S GOLD 2321	31.9	32.0	--	22.6	22.2	--	7.1	7.0	--
STAUFFER SEEDS S4402	31.8	32.1	34.2	20.7	22.8	19.6	6.6	7.3	6.5
DEKALB-PFIZER EX2120	31.8	31.7	--	23.6	22.6	--	7.5	7.2	--
FUNK G-4342	31.8	31.1	--	22.6	22.0	--	7.2	6.9	--
GREAT LAKES GL-466	31.8	32.1	--	19.2	22.1	--	6.1	7.1	--
DAIRYLAND DX1096	31.8	31.3	36.2	21.7	20.2	17.4	6.9	6.4	6.1
DAIRYLAND DX1094	31.7	32.8	--	16.7	17.4	--	5.3	5.7	--
DEKALB-PFIZER T950	31.7	30.7	33.3	21.1	19.7	16.8	6.6	6.1	5.5
P-A-G SX177	31.6	32.9	33.7	20.3	22.1	19.3	6.4	7.3	6.4
DAIRYLAND DX1003	31.6	33.7	34.4	18.7	18.9	17.1	5.9	6.3	5.8
GOLDEN HARVEST H-2300	31.6	32.6	--	19.3	20.3	--	6.1	6.6	--
PIONEER 3901	31.5	32.2	34.2	23.5	21.6	18.4	7.4	6.9	6.1
KING K4422	31.5	--	--	24.1	--	--	7.5	--	--
RENN RK19	31.5	--	--	17.9	--	--	5.6	--	--
PIONEER X7064	31.4	--	--	19.1	--	--	6.0	--	--
FUNK G-4323	31.2	28.5	28.9	20.1	21.8	20.7	6.3	6.2	5.9
JACQUES JX97	31.0	32.7	--	18.7	18.3	--	5.8	5.9	--
DAIRYLAND DX1093	31.0	--	--	21.8	--	--	6.8	--	--
VORIS V2411	31.0	30.9	31.3	18.3	18.7	18.9	5.7	5.8	5.9
SUPER CROST 1950	30.7	32.7	34.4	18.9	19.1	17.1	5.8	6.2	5.8
GREAT LAKES 82351	30.7	--	--	20.5	--	--	6.3	--	--
ASGROW RX418	30.7	--	--	20.4	--	--	6.2	--	--
RUPP XR1591	30.7	--	--	21.1	--	--	6.5	--	--
GREAT LAKES GL-487	30.6	--	--	18.6	--	--	5.7	--	--
VORIS V2331	30.6	31.0	33.0	16.2	17.8	15.6	5.0	5.6	5.1
STAUFFER SEEDS S3406WX	30.4	31.4	--	20.5	20.3	--	6.3	6.4	--
JACQUES JX151	30.4	31.8	--	20.0	19.6	--	6.1	6.2	--
O'S GOLD 2330	30.4	30.1	32.7	20.4	20.5	18.2	6.2	6.1	5.8
KING K4423	30.3	--	--	18.8	--	--	5.7	--	--
KALTENBERG KX51	30.1	--	--	18.0	--	--	5.4	--	--
PAYCO SX599	30.1	31.5	--	21.9	19.7	--	6.5	6.1	--
GREAT LAKES GL-547	30.0	--	--	20.7	--	--	6.2	--	--
PIONEER 3747	30.0	--	--	19.3	--	--	5.8	--	--
FUNK G-4256	29.9	30.5	32.2	23.4	21.8	18.6	7.0	6.6	5.9
FUNK 29097	29.9	--	--	19.4	--	--	5.9	--	--
DAIRYLAND DX1006	29.8	29.6	--	17.2	18.2	--	5.1	5.4	--
STANTON SX10100	29.8	29.9	--	17.2	21.3	--	5.1	6.3	--
SUPER CROST 2410	29.7	28.7	30.1	23.9	22.8	21.2	7.1	6.5	6.3
NORTHUP KING PX9288	29.7	31.7	--	16.2	18.3	--	4.8	5.8	--
NORTHUP KING PX9301	29.6	--	--	18.6	--	--	5.5	--	--
RUPP EXP.2-165	29.6	--	--	25.2	--	--	7.4	--	--
ANDERSONS PSX105	29.6	--	--	26.4	--	--	7.8	--	--
FUNK 2008X	29.3	--	--	19.7	--	--	5.8	--	--
SUPER CROST 1940	29.3	32.4	--	22.0	21.2	--	6.5	6.9	--
ASGROW RX420	29.3	--	--	15.1	--	--	4.1	--	--
CUSTOM CFS-3601	29.2	--	--	18.4	--	--	5.4	--	--
DEKALB-PFIZER T1000	28.9	29.7	31.3	22.1	21.2	19.3	6.4	6.3	6.0
DAIRYLAND DX1105	28.7	27.5	--	21.5	22.0	--	6.2	6.1	--
WOLVERINE W168	28.6	--	--	20.7	--	--	5.9	--	--
P-A-G SX179	28.6	--	--	21.1	--	--	6.0	--	--
GREAT LAKES 5922	28.6	28.8	29.5	24.8	25.8	23.5	7.1	7.4	6.9
SUPER CROST 1542	28.2	--	--	14.5	--	--	4.1	--	--
RENN RK24	28.2	28.9	31.2	21.2	19.9	19.4	6.0	5.7	6.0
ASGROW RX532	27.9	--	--	18.8	--	--	5.3	--	--
STAUFFER SEEDS S5650	27.6	27.8	--	24.5	24.9	--	6.7	6.9	--
NORTHUP KING PX9353	27.6	--	--	22.8	--	--	6.3	--	--
RUPP XR1639	27.6	--	--	22.8	--	--	6.3	--	--
CUSTOM CFS W3003	27.6	--	--	18.7	--	--	5.2	--	--
DAIRYLAND DX1099	27.5	30.0	33.2	15.1	17.1	15.1	4.2	5.2	4.9
RENN RK60	27.5	--	--	21.9	--	--	6.0	--	--
PIONEER 3744	27.4	27.8	30.5	21.5	22.0	18.6	5.9	6.1	5.5
VORIS V2451	27.2	--	--	21.8	--	--	5.9	--	--
RUPP XR1780	27.0	--	--	26.4	--	--	7.1	--	--
RENN RK66	26.9	27.6	27.8	23.2	24.4	22.4	6.3	6.7	6.2
DEKALB-PFIZER XL-25A	26.8	26.3	--	22.0	23.0	--	5.9	6.1	--

Table 12 (continued)

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	2		3	2		3	2		3	2		3
	1983	YR	YR	1983	YR	YR	1983	YR	YR	1983	YR	YR
GOLDEN HARVEST H-2480	26.8	--	--	22.3	--	--	6.0	--	--	6.8	--	--
STAUFFER SEEDS S4880	26.6	--	--	25.6	--	--	6.8	--	--	7.1	--	--
RUPP XR1625	26.0	--	--	20.0	--	--	5.2	--	--	7.1	--	--
RUPP XR1690	25.9	--	--	27.6	--	--	7.1	--	--	7.1	--	--
GOLDEN HARVEST H-2500	25.6	26.0	25.6	28.5	28.6	26.2	7.3	7.4	6.7	7.3	7.4	6.7
Average	30.8	31.4	33.0	19.6	20.1	18.4	5.9	6.2	5.8	5.9	6.2	5.8
Range	25.6	26.0	25.6	11.6	11.4	11.1	4.1	4.2	4.9	4.1	4.2	4.9
	to	to	to	to	to	to	to	to	to	to	to	to
	37.8	41.9	46.0	28.5	28.6	26.2	7.8	7.4	6.9	7.8	7.4	6.9
Least significant difference	3.1	2.2	1.5	1.7	1.5	1.0	0.8	0.7	0.5	0.8	0.7	0.5

	1983	1982	1981
Planted	May 13	May 1	May 6
Harvested	September 19	September 15	September 22
Soil Type	Linwood loam	Linwood loam and Tawas muck	Linwood loam and Tawas muck
Previous crop	Corn	Corn	Corn
Population	21,000	22,000	20,600
Rows	30"	30"	30"
Fertilizer	184-96-228	213-161-120	241-207-180
Soil test: pH	6.8	7.6	7.3
P	206 (very high)	233 (very high)	117 (very high)
K	446 (very high)	344 (very high)	328 (very high)

Farm cooperator: Charles Cork, Peck

County Extension Director: Rex Stieting, Sandusky

Table 13

NORTH CENTRAL MICHIGAN
Saginaw County Trial
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	2		3	2		3	2		3
	1983	YR	YR	1983	YR	YR	1983	YR	YR
PAYCO SX431	19.4	19	--	103.1	122	--	6.7	6	--
PRO-SEED HL2444	19.7	--	--	118.3	--	--	2.1	--	--
GARNO S-90	20.0	20	22	135.6	144	144	2.9	2	2
PAYCO SX599	20.0	19	--	119.6	123	--	4.5	2	--
ASGROW RX420	20.1	--	--	108.6	--	--	4.7	--	--
SUPER CROST 1542	20.4	--	--	101.4	--	--	7.7	--	--
RUPP EXP. 2-165	20.7	--	--	137.6	--	--	2.1	--	--
RUPP EXP. 3-209	20.7	--	--	130.2	--	--	3.5	--	--
GRIES GSF-215	20.8	--	--	113.8	--	--	5.6	--	--
NORTHROP KING PX9301	20.8	--	--	123.7	--	--	2.2	--	--
STANTON SX1090	20.8	20	--	145.1	140	--	3.4	2	--
STANTON SX1095	20.9	20	--	131.7	141	--	2.8	3	--
SUPER CROST 1940	21.1	20	--	127.2	128	--	8.5	7	--
RUPP XR1490	21.1	--	--	140.3	--	--	0.0	--	--
FUNK 29097	21.2	--	--	124.9	--	--	11.3	--	--
WOLVERINE W155	21.2	--	--	104.0	--	--	7.5	--	--
P-A-G SX181	21.2	21	23	137.2	146	148	4.2	4	6
ASGROW RX418	21.2	--	--	128.8	--	--	7.2	--	--
VORIS V2331	21.5	20	23	131.2	137	142	3.4	2	4
JACQUES JX77	21.7	--	--	138.5	--	--	3.0	--	--
GREAT LAKES GL-487	21.7	--	--	149.0	--	--	0.7	--	--
ASGROW RX511	21.8	21	23	130.8	145	150	3.6	4	4
DAIRYLAND DX1003	21.8	20	24	136.2	135	146	8.2	7	6
DEKALB-PFIZER EX-2120	21.9	21	--	143.5	138	--	2.9	5	--
GRIES GSF-240	21.9	--	--	132.1	--	--	3.6	--	--
GREAT LAKES GL-466	22.0	21	24	144.5	149	149	6.5	6	6
P-A-G SX179	22.0	--	--	147.6	--	--	5.0	--	--
PIONEER X7064	22.0	--	--	130.5	--	--	2.9	--	--
ANDERSONS PSX93	22.0	--	--	137.6	--	--	2.2	--	--
NORTHROP KING PX9353	22.1	--	--	148.5	--	--	1.4	--	--
PRO-SEED HL-2727	22.1	22	--	152.9	151	--	5.7	3	--
PIONEER 3901	22.2	21	23	137.3	145	151	0.0	2	2
KING K4422	22.3	--	--	151.2	--	--	2.2	--	--
PAYCO SX620	22.4	--	--	132.0	--	--	5.7	--	--
GOLDEN HARVEST H-2300	22.6	21	--	148.5	141	--	4.2	6	--
JACQUES 5100	22.7	--	--	141.1	--	--	4.4	--	--
NORTHROP KING PX9288	22.7	--	--	124.9	--	--	2.0	--	--
RUPP XR1591	22.7	--	--	141.8	--	--	3.5	--	--
RENK RK18	22.8	--	--	146.8	--	--	5.6	--	--
KALTENBERG KX55	22.8	22	25	132.4	137	142	3.6	3	5
WOLVERINE W166	23.1	--	--	149.2	--	--	1.4	--	--
*PIONEER 3744	23.1	22	25	161.5	157	156	2.1	2	2
KING K4464	23.2	--	--	124.9	--	--	0.0	--	--
LOWE LSX117	23.2	--	--	140.8	--	--	4.9	--	--
FUNK 2008X	23.3	--	--	133.2	--	--	4.2	--	--

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	2		3	2		3	2		3
	1983	YR	YR	1983	YR	YR	1983	YR	YR
FUNK G-4323	23.3	23	26	135.4	145	150	0.7	1	3
JACQUES JX151	23.3	23	--	138.3	140	--	4.4	4	--
STANTON SX10100	23.3	23	--	144.1	145	--	2.1	2	--
RENK RK60	23.4	--	--	134.1	--	--	1.5	--	--
FUNK G-4315	23.5	22	--	149.9	148	--	2.9	3	--
SUPER CROST 2410	23.5	22	--	139.0	147	--	8.4	6	--
P-A-G SX155	23.5	--	--	100.8	--	--	17.7	--	--
KING K4423	23.6	--	--	148.6	--	--	2.8	--	--
*PRO-SEED HL-2620	23.6	--	--	157.3	--	--	3.4	--	--
*RENK RK19	23.7	--	--	162.6	--	--	3.4	--	--
ASGROW RX532	23.9	--	--	127.9	--	--	12.1	--	--
DEKALB-PFIZER T950	23.9	22	25	138.2	148	148	6.5	7	5
RENK RK24	24.0	--	--	127.7	--	--	12.1	--	--
DEKALB-PFIZER DK-484	24.1	--	--	139.1	--	--	2.9	--	--
FUNK G-4342	24.1	23	--	127.7	142	--	5.2	4	--
*DEKALB-PFIZER XL-25A	24.2	22	--	155.3	156	--	2.8	2	--
*GOLDEN HARVEST H-2448	24.3	24	27	155.2	152	159	2.9	4	3
*STAUFFER SEEDS S5650	24.4	23	--	162.6	160	--	0.7	2	--
*PIONEER 3747	24.4	--	--	166.6	--	--	1.4	--	--
DEKALB-PFIZER T1000	24.4	24	27	136.7	142	150	6.5	5	5
GREAT LAKES GL-522	24.6	24	27	146.7	151	157	3.8	3	2
DAIRYLAND DX1006	24.6	23	--	127.5	139	--	3.9	3	--
*DAIRYLAND DX1105	24.6	23	--	165.4	167	--	3.5	3	--
PAYCO SX788	24.6	24	27	136.6	151	157	8.8	8	7
*VORIS V2472	24.6	24	27	162.4	164	160	0.7	2	2
*KALTENBERG KX68	24.7	24	27	163.6	163	157	2.9	2	3
P-A-G SX195	24.8	--	--	137.6	--	--	2.2	--	--
P-A-G SX239	24.8	--	--	129.0	--	--	13.4	--	--
ANDERSONS PSX105	24.8	--	--	173.3	--	--	1.4	--	--
*O'S GOLD 1170A	24.8	24	--	164.2	160	--	1.5	2	--
GREAT LAKES GL-516	25.0	24	28	153.0	152	155	3.8	3	4
*FARMERS FCC251	25.0	--	--	176.0	--	--	0.7	--	--
O'S GOLD 6880	25.1	23	26	148.7	154	151	6.8	5	5
FARMERS FCC224A	25.1	24	27	143.3	158	165	3.5	3	3
*GREAT LAKES 5922	25.1	24	27	174.6	168	170	0.7	1	2
*RENK RK66	25.2	--	--	181.2	--	--	0.0	--	--
*PAYCO SX715	25.2	--	--	156.5	--	--	0.7	--	--
*GREAT LAKES GL-547	25.5	--	--	161.9	--	--	2.9	--	--
*GOLDEN HARVEST H-2480	25.9	--	--	165.5	--	--	0.0	--	--
*VORIS V2451	25.9	--	--	155.6	--	--	3.4	--	--
*FUNK G-4438	26.2	--	--	179.9	--	--	4.9	--	--
PAYCO SX872	26.5	--	--	139.4	--	--	0.8	--	--
*RUPP XR1690	26.8	--	--	156.8	--	--	2.7	--	--
*SUPER CROST 5438	27.2	--	--	163.7	--	--	2.9	--	--
RENK RK75	28.1	--	--	126.9	--	--	0.7	--	--
AVERAGE	23.1	22	25	141.7	147	153	4.0	4	4
Range	19.4	19	22	100.8	122	142	0.0	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.1	24	28	181.2	168	170	17.7	8	7
Least significant difference	1.5	1.0	0.7	12.8	8	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

	1983	1982	1981
Planted	May 11	May 5	May 5-6
Harvested	October 21	November 2	October 27
Soil Type	Parkhill loam	Parkhill loam	Parkhill loam
Previous Crop	Sugar beets	Wheat	Corn
Population	21,100	21,300	20,800
Rows	30"	30"	30"
Fertilizer	224-96-246	213-53-113	269-150-180
Soil Test: pH	7.2	7.8	7.6
P	383 (very high)	144 (very high)	103 (very high)
K	438 (very high)	301 (high)	392 (very high)

Farm Cooperator: Reinhold Farms, Reese

County Extension Director: Harold Ferris and Steve Poindexter, Saginaw

Table 14

NORTH CENTRAL MICHIGAN
Huron County Trial - Grain
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	2		3	2		3	2		3
	1983	YR	YR	1983	YR	YR	1983	YR	YR
KING K1163	24.5	--	--	104.6	--	--	0.0	--	--
DAIRYLAND DX1088	25.2	26	--	106.3	119	--	0.0	2	--
DAIRYLAND DX1085	25.8	--	--	72.8	--	--	1.5	--	--
FUNK 0008X	26.0	--	--	95.7	--	--	2.8	--	--
PAYCO SX431	26.4	25	--	79.6	110	--	1.6	7	--

(continued)

(continued)

Table 14 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	YR	3	1983	YR	3	1983	YR	3
ASGROW EXP. 1232	26.6	--	--	94.8	--	--	0.7	--	--
FUNK G-4081	27.1	27	--	86.0	102	--	0.0	3	--
KING K2203	27.1	--	--	116.7	--	--	0.0	--	--
KING K1173	27.3	--	--	91.6	--	--	0.0	--	--
KING K2204	27.3	--	--	88.5	--	--	0.7	--	--
PAYCO SX599	27.3	26	--	116.1	123	--	0.7	2	--
CARGILL 834	27.4	27	26	89.6	109	107	2.9	4	5
GREAT LAKES GL-381	27.6	--	--	86.3	--	--	0.0	--	--
CARGILL 818	27.6	--	--	95.6	--	--	1.4	--	--
DAIRYLAND DX1096	27.8	28	27	105.3	119	112	0.7	4	5
STANTON SX1090	27.8	26	--	114.8	118	--	0.0	2	--
STAUFFER SEEDS S3406WX	27.9	30	--	78.3	113	--	1.4	5	--
STAUFFER SEEDS S3306	27.9	28	27	112.8	127	116	1.4	4	5
DAIRYLAND DX1094	28.0	28	--	111.9	117	--	0.7	2	--
DAIRYLAND DX1091	28.0	--	--	81.4	--	--	0.0	--	--
SUPER CROST 1542	28.2	--	--	86.5	--	--	2.8	--	--
GARNO S-90	28.2	28	27	109.2	124	123	0.0	4	4
GREAT LAKES GL-422	28.6	28	27	111.4	127	126	0.0	1	4
ANDERSONS PSX93	28.6	--	--	118.9	--	--	0.0	--	--
PAYCO SX620	28.6	--	--	110.6	--	--	0.0	--	--
*RUPP XR1639	28.7	--	--	138.1	--	--	0.0	--	--
P-A-G SX181	28.8	30	28	107.7	133	123	2.2	4	6
DEKALB-PFIZER EX-2120	29.1	29	--	103.8	114	--	0.0	3	--
STANTON SX1095	29.1	28	--	96.7	112	--	0.0	3	--
*DAIRYLAND DX1093	29.2	--	--	121.5	--	--	0.0	--	--
*PIONEER X7064	29.3	--	--	125.7	--	--	2.9	--	--
SOHIGRO S29	29.3	--	--	115.5	--	--	2.2	--	--
FUNK G-4256	29.5	29	28	93.9	115	115	0.0	2	4
FUNK 2008X	29.6	--	--	102.0	--	--	0.0	--	--
PAYMASTER 1990	29.6	--	--	96.8	--	--	0.7	--	--
NORTHROP KING PX9301	29.7	--	--	105.0	--	--	0.0	--	--
NORTHROP KING PX9288	29.7	29	--	103.4	115	--	1.4	4	--
*PIONEER 3901	29.7	27	27	124.1	132	124	2.1	3	4
LOWE LSX117	29.7	--	--	99.6	--	--	2.1	--	--
*GREAT LAKES GL-487	30.0	--	--	121.4	--	--	0.0	--	--
P-A-G SX179	30.0	--	--	106.6	--	--	0.0	--	--
FUNK 29097	30.1	--	--	102.5	--	--	0.0	--	--
GREAT LAKES GL-466	30.1	29	28	113.2	133	129	2.2	5	5
WOLVERINE W168	30.1	32	31	100.9	117	117	0.0	2	3
P-A-G SX155	30.1	--	--	84.5	--	--	2.1	--	--
GOLDEN HARVEST H-2300	30.1	29	--	113.4	127	--	0.7	3	--
KING K3332	30.2	29	28	99.1	124	121	0.0	5	6
DEKALB-PFIZER XL-25A	30.3	31	30	103.6	124	125	0.0	0	1
GREAT LAKES GL-516	30.3	32	--	107.8	127	--	1.4	1	--
*DEKALB-PFIZER T950	30.3	30	28	125.3	119	115	1.4	7	6
STAUFFER SEEDS S4880	30.4	--	--	112.8	--	--	1.4	--	--
STAUFFER SEEDS S4402	30.5	30	28	101.2	118	118	0.7	2	5
*DEKALB-PFIZER T1000	30.5	31	30	122.4	134	134	0.0	4	7
GOLDEN HARVEST H-2380	30.5	31	--	113.3	124	--	1.4	2	--
*FUNK G-4315	30.6	32	--	122.3	135	--	0.0	1	--
*SUPER CROST 2410	30.7	31	30	121.1	137	129	0.0	3	4
*GREAT LAKES GL-522	30.7	32	32	127.0	138	133	0.0	0	3
P-A-G SX193	30.7	--	--	119.6	--	--	1.4	--	--
*PIONEER 3744	30.7	31	30	146.6	148	144	0.7	1	1
DAIRYLAND DX1003	30.7	30	29	103.4	134	129	0.7	1	2
ANDERSONS PSX105	30.7	--	--	92.6	--	--	0.0	--	--
STANTON SX10100	30.7	30	--	103.0	124	--	0.8	2	--
JACQUES JX151	30.8	31	--	98.0	124	--	0.0	2	--
*PIONEER 3747	30.8	--	--	138.6	--	--	0.0	--	--
DAIRYLAND DX1006	30.8	32	--	96.6	117	--	0.7	1	--
*GREAT LAKES GL-477	30.9	30	29	127.2	140	138	0.0	2	3
*FUNK G-4342	31.0	--	--	123.6	--	--	1.4	--	--
SUPER CROST 1940	31.0	29	--	106.4	129	--	0.0	3	--
JACQUES JX97	31.0	30	--	104.3	127	--	1.4	2	--
LOWE LSX247	31.0	--	--	98.7	--	--	0.0	--	--
*STAUFFER SEEDS S5650	31.1	33	--	137.4	138	--	1.4	1	--
GREAT LAKES GL-579	31.1	--	--	116.4	--	--	1.4	--	--
LOWE LSX217	31.1	--	--	111.6	--	--	0.0	--	--
SOHIGRO S25	31.1	31	--	100.1	125	--	1.4	4	--
*NORTHROP KING PX9353	31.2	--	--	148.0	--	--	0.0	--	--
CARGILL 861	31.2	--	--	94.9	--	--	0.0	--	--
*GOLDEN HARVEST H-2448	31.2	33	32	148.0	146	138	0.0	0	3
*STAUFFER SEEDS S606WX	31.3	--	--	139.2	--	--	0.0	--	--
DEKALB-PFIZER DK-484	31.3	--	--	112.3	--	--	0.7	--	--
GREAT LAKES GL-547	31.3	--	--	115.1	--	--	0.0	--	--
*WOLVERINE W166	31.3	31	29	132.1	135	127	0.0	2	4
RUPP XR1625	31.3	--	--	109.8	--	--	0.0	--	--
*GOLDEN HARVEST H-2480	31.3	--	--	123.3	--	--	0.0	--	--
RUPP XR1690	31.4	--	--	100.6	--	--	0.0	--	--
PAYCO SX788	31.4	32	31	118.0	134	131	0.0	2	1
O'S GOLD 2330	31.4	30	29	89.5	114	117	0.0	2	3
*GREAT LAKES GL-5922	31.4	32	32	143.1	152	149	0.0	0	1
SOHIGRO S35	31.5	--	--	92.1	--	--	0.7	--	--
DEKALB-PFIZER XL-32A	31.7	33	32	105.5	128	129	0.0	1	1
RUPP XR1591	31.7	--	--	107.5	--	--	1.7	--	--

(continued)

Table 14 (continued)

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	YR	3	1983	YR	3	1983	YR	3
RUPP XR1780	31.7	--	--	118.0	--	--	0.0	--	--
*STAUFFER SEEDS S5260	31.9	33	--	137.6	151	--	0.0	1	--
*SOHIGRO S39	31.9	33	32	131.5	141	137	0.0	2	1
*SUPER CROST 5438	32.3	--	--	124.3	--	--	0.7	--	--
GREAT LAKES GL-592	32.5	--	--	107.2	--	--	0.0	--	--
PAYCO SX715	32.7	--	--	115.8	--	--	0.0	--	--
GOLDEN HARVEST H-2500	33.0	35	35	109.0	113	119	0.0	1	1
AVERAGE	29.9	30	29	109.7	126	126	0.6	2	3
RANGE	24.5	25	26	72.8	102	107	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	33.0	35	35	148.0	152	149	2.9	7	7
LEAST SIGNIFICANT DIFFERENCE	2.0	1.5	1.0	11.2	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

	1983	1982	1981
Planted	May 13	May 1	May 7
Harvested	October 21	October 26	November 4
Soil Type	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
Previous Crop	Corn	Corn	Corn
Population	20,500	21,300	21,400
Rows	30"	30"	30"
Fertilizer	204-94-114	199-83-150+Zn	185-218-214
Soil Test: pH	6.9	7.3	7.2
P	128 (very high)	152 (very high)	106 (very high)
K	362 (very high)	360 (very high)	432 (very high)

Farm Cooperator: William McCrea, Bad Axe

County Extension Director: Lee Warschewsky, Bad Axe

Table 15

NORTH CENTRAL MICHIGAN
Huron County Trial - Silage
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 3

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR
PAYCO SX431	37.6	39.0	--	12.2	13.7	--	4.6	5.4	--			
FUNK G-4081	37.1	37.9	--	12.8	15.3	--	4.8	5.8	--			
PAYCO SX599	36.8	36.5	--	14.9	16.3	--	5.5	5.9	--			
SOHIGRO S29	36.5	--	--	15.3	--	--	5.6	--	--			
FUNK 0008X	36.3	--	--	13.8	--	--	5.0	--	--			
DAIRYLAND DX1093	36.3	--	--	15.8	--	--	5.7	--	--			
KING K2203	36.1	--	--	17.3	--	--	6.2	--	--			
GREAT LAKES GL-381	35.5	--	--	11.8	--	--	4.2	--	--			
PIONEER X7064	35.5	--	--	18.7	--	--	6.7	--	--			
PAYCO SX620	35.4	--	--	17.3	--	--	6.1	--	--			
O'S GOLD 2330	35.4	34.6	34.8	15.2	17.2	19.0	5.4	5.9	6.6			
GREAT LAKES GL-422	34.8	35.5	37.7	16.8	18.5	17.0	5.8	6.5	6.3			
DAIRYLAND DX1085	34.7	--	--	12.1	--	--	4.2	--	--			
FUNK G-4256	34.6	35.1	36.2	17.4	19.3	18.4	6.0	6.8	6.6			
P-A-G SX181	34.5	36.9	39.5	17.4	18.1	17.1	6.0	6.7	6.7			
GOLDEN HARVEST H-2380	34.4	34.9	--	15.9	17.5	--	5.5	6.1	--			
STAUFFER SEEDS S4880	34.2	--	--	18.0	--	--	6.1	--	--			
CARGILL 861	34.1	--	--	16.8	--	--	5.8	--	--			
DAIRYLAND DX1091	34.1	--	--	12.0	--	--	4.1	--	--			
GARNO S-90	34.0	35.6	37.0	15.9	17.9	17.1	5.4	6.4	6.3			
P-A-G SX155	34.0	--	--	11.8	--	--	4.0	--	--			
DAIRYLAND DX1088	34.0	36.5	--	12.4	14.9	--	4.2	5.5	--			
PIONEER 3901	33.8	35.3	37.3	18.0	19.3	18.5	6.1	6.8	6.9			
KING K2204	33.8	--	--	15.2	--	--	5.1	--	--			
DAIRYLAND DX1094	33.7	36.2	--	16.7	18.0	--	5.6	6.5	--			
ASGROW EXP. 1232	33.6	--	--	13.2	--	--	4.5	--	--			
STANTON SX1090	33.5	35.4	--	18.5	18.5	--	6.2	6.5	--			
GOLDEN HARVEST H-2300	33.5	33.8	--	17.5	18.7	--	5.9	6.3	--			
LOWE LSX 247	33.4	--	--	17.3	--	--	5.8	--	--			
FUNK 29097	33.3	--	--	20.3	--	--	6.7	--	--			
NORTHROP KING PX9301	32.7	--	--	15.3	--	--	5.0	--	--			
CARGILL 834	32.7	35.9	37.5	17.8	17.7	17.5	5.8	6.3	6.5			
SUPER CROWN 1940	32.6	34.0	--	17.5	19.6	--	5.7	6.7	--			
GREAT LAKES GL-466	32.6	34.0	36.1	18.4	19.3	19.4	6.0	6.6	7.0			
DEKALB-PFIZER T950	32.6	33.7	35.0	20.5	20.0	19.0	6.7	6.7	6.6			
DEKALB-PFIZER T1000	32.6	34.0	33.7	20.6	21.5	21.2	6.7	7.3	7.1			
GREAT LAKES GL-487	32.5	--	--	20.9	--	--	6.8	--	--			
CARGILL 818	32.4	--	--	18.1	--	--	5.9	--	--			
STANTON SX1095	32.4	34.9	--	18.2	18.7	--	5.9	6.5	--			
WOLVERINE W168	32.3	33.5	36.1	17.1	19.7	18.6	5.5	6.6	6.7			

Table 15 (continued)

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1983	2	3	1983	2	3	1983	2	3
KING K3332	32.3	34.7	37.4	15.9	18.4	17.1	5.2	6.5	6.4
STAUFFER SEEDS S4402	32.2	34.0	35.7	16.4	18.9	18.5	5.3	6.5	6.6
STAUFFER SEEDS S5260	32.2	30.8	--	21.3	22.2	--	6.8	6.8	--
PIONEER 3744	32.2	32.1	33.9	20.2	21.0	19.9	6.5	6.7	6.7
DAIRYLAND DX1003	32.2	32.7	33.8	16.5	17.8	18.4	5.3	5.8	6.2
STANTON SX10100	32.2	32.9	--	15.1	18.4	--	4.9	6.1	--
JACQUES JX151	32.1	32.5	--	17.9	19.2	--	5.8	6.3	--
SOHIGRO S35	32.0	--	--	18.0	--	--	5.8	--	--
GREAT LAKES GL-477	32.0	32.7	33.6	21.3	22.5	23.0	6.8	7.3	7.7
FUNK 2008X	31.9	--	--	18.7	--	--	6.0	--	--
STAUFFER SEEDS S3306	31.8	33.5	37.8	13.7	16.5	16.1	4.5	5.6	6.1
NORTHROP KING PX9353	31.8	--	--	22.4	--	--	7.1	--	--
LOWE LSX117	31.8	--	--	14.2	--	--	4.6	--	--
KING K1173	31.7	--	--	15.5	--	--	4.9	--	--
RUPP XR1591	31.7	--	--	16.2	--	--	5.1	--	--
FUNK G-4315	31.6	33.1	--	15.3	18.6	--	4.8	6.2	--
ANDERSONS PSX93	31.6	--	--	17.7	--	--	5.6	--	--
KING K1163	31.5	--	--	13.8	--	--	4.4	--	--
P-A-G SX179	31.4	--	--	13.0	--	--	4.1	--	--
DAIRYLAND DX1096	31.4	32.8	38.0	15.9	18.0	17.0	5.0	5.9	6.4
PAYCO SX788	31.4	33.4	33.3	14.5	17.7	19.0	4.5	5.9	6.3
SOHIGRO S25	31.4	33.6	--	17.3	18.8	--	5.4	6.3	--
DEKALB-PFIZER XL-25A	31.3	32.2	32.5	16.0	17.5	18.7	5.0	5.6	6.1
DAIRYLAND DX1006	31.3	31.7	--	18.3	19.7	--	5.7	6.2	--
STAUFFER SEEDS S3406WX	31.0	33.1	--	18.1	19.1	--	5.4	6.2	--
DEKALB-PFIZER DK-484	30.9	--	--	18.1	--	--	5.6	--	--
PAYCO SX715	30.8	--	--	23.7	--	--	7.3	--	--
SUPER CROST 2410	30.7	31.9	32.5	17.8	19.9	20.8	5.4	6.3	6.7
JACQUES JX97	30.7	33.2	--	15.0	16.8	--	4.6	5.6	--
STAUFFER SEEDS S606WX	30.6	--	--	22.1	--	--	6.8	--	--
PAYMASTER 1990	30.6	--	--	16.0	--	--	4.9	--	--
LOWE LSX217	30.6	--	--	16.8	--	--	5.1	--	--
GREAT LAKES GL-516	30.5	33.1	--	18.7	20.5	--	5.7	6.6	--
GREAT LAKES GL-522	30.4	31.7	31.5	21.7	21.4	22.5	6.6	6.8	7.0
FUNK G-4342	30.0	--	--	20.5	--	--	6.2	--	--
DEKALB-PFIZER EX-2120	29.9	31.6	--	16.7	17.8	--	5.0	5.6	--
SUPER CROST 1542	29.6	--	--	15.5	--	--	4.6	--	--
NORTHROP KING PX9288	29.5	31.6	--	16.6	19.1	--	4.9	6.1	--
PIONEER 3747	29.5	--	--	16.6	--	--	4.9	--	--
GREAT LAKES 5922	29.5	30.2	31.0	23.7	24.4	25.0	7.0	7.4	7.8
GREAT LAKES GL-592	29.4	--	--	19.4	--	--	5.7	--	--
WOLVERINE W166	29.4	31.7	33.6	17.0	17.7	18.8	5.0	5.6	6.4
RUPP XR1639	29.4	--	--	17.1	--	--	5.0	--	--
GOLDEN HARVEST H-2448	29.4	30.0	31.4	20.8	21.9	23.2	6.2	6.6	7.4
P-A-G SX193	29.0	--	--	20.5	--	--	5.9	--	--
GREAT LAKES GL-579	28.8	--	--	25.7	--	--	7.4	--	--
GREAT LAKES GL-547	28.6	--	--	19.2	--	--	5.5	--	--
SOHIGRO S39	28.3	29.6	30.2	22.0	23.7	24.5	6.2	7.0	7.4
ANDERSONS PSX105	28.2	--	--	24.0	--	--	6.8	--	--
STAUFFER SEEDS S5650	28.1	29.4	--	19.8	22.1	--	5.6	6.5	--
RUPP XR1625	28.1	--	--	21.4	--	--	6.0	--	--
SUPER CROST 5438	28.0	--	--	21.9	--	--	6.1	--	--
GOLDEN HARVEST H-2480	27.9	--	--	17.9	--	--	5.0	--	--
DEKALB-PFIZER XL-32A	27.8	28.5	29.1	21.6	21.4	22.6	6.0	6.1	6.6
RUPP XR1690	27.6	--	--	19.5	--	--	5.4	--	--
GOLDEN HARVEST H-2500	27.1	26.9	26.4	23.3	25.1	26.0	6.3	6.7	6.8
RUPP XR1780	26.6	--	--	22.0	--	--	5.9	--	--
Average	32.0	33.3	34.4	17.6	19.1	19.8	5.6	6.3	6.7
Range	26.6	26.9	26.4	11.8	13.7	16.1	4.0	5.4	6.2
	37.6	39.0	39.5	25.7	25.1	26.0	7.4	7.4	7.8
Least significant difference	3.0	2.1	1.5	1.7	1.4	1.0	0.6	0.5	0.4

	1983	1982	1981
Planted	May 13	May 1	May 7
Harvested	September 19	September 15	September 22
Soil type	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
Previous crop	Corn	Corn	Corn
Population	21,100	22,000	21,800
Rows	30"	30"	30"
Fertilizer	204-94-114	199-83-150+Zn	185-218-214
Soil test: pH	6.9	7.3	7.2
P	128 (very high)	152 (very high)	106 (very high)
K	362 (very high)	360 (very high)	432 (very high)

Farm Cooperator: William McCrea, Bad Axe

Extension Livestock Agent: Lee Warschewsky, Bad Axe

Table 16

NORTH CENTRAL MICHIGAN
Isabella County Trial
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 3

HYBRID (BRAND-VARIETY)	BUSHELS PER ACRE								
	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
FUNK 0008X	25.5	--	--	106.1	--	--	12.0	--	--
FUNK G-4085	25.7	24	24	94.5	80	88	9.2	7	6
MCKENZIE 858	25.7	--	--	122.9	--	--	5.3	--	--
GREAT LAKES GL-422	26.3	27	26	135.5	112	116	8.6	6	5
DAIRYLAND DX1088	26.6	26	--	126.4	95	--	1.4	4	--
GARNO S-90	27.1	--	--	134.6	--	--	8.8	--	--
KING K2204	27.2	--	--	119.5	--	--	8.8	--	--
ANDERSONS PSX93	27.2	--	--	110.0	--	--	5.6	--	--
SUPER CROST 1542	27.3	--	--	117.5	--	--	14.3	--	--
KING K2203	27.3	--	--	122.6	--	--	12.9	--	--
DAIRYLAND DX1091	27.3	--	--	105.2	--	--	11.8	--	--
PAYCO SX431	27.3	27	--	117.9	103	--	11.4	7	--
SUPER CROST 1621	27.4	27	--	120.8	100	--	6.1	3	--
KING 1173	27.4	--	--	108.5	--	--	9.3	--	--
FUNK G-4081	27.5	26	--	96.7	86	--	4.3	4	--
P-A-G SX155	27.5	--	--	102.5	--	--	20.0	--	--
STANTON SX1090	27.5	27	--	123.6	102	--	8.5	6	--
PAYCO SX599	27.6	28	--	118.7	90	--	5.0	3	--
RUPP XR1490	27.7	--	--	115.8	--	--	10.3	--	--
STANTON SX1095	27.7	30	--	109.5	97	--	0.0	2	--
PAYCO SX620	27.8	--	--	140.3	--	--	4.5	--	--
PIONEER X7064	27.9	--	--	136.6	--	--	5.1	--	--
RUPP EXP. 3-209	28.1	--	--	121.5	--	--	14.6	--	--
*P-A-G SX181	28.4	29	28	144.5	117	118	2.2	3	5
FUNK G-4141A	28.5	29	28	112.3	93	96	9.2	7	6
*PIONEER 3901	28.6	27	27	146.7	123	125	5.6	3	2
O'S GOLD 2310	28.6	28	--	122.5	108	--	14.5	9	--
*DEKALB-PFIZER EX-2120	28.7	31	--	145.8	113	--	1.5	2	--
*FUNK G-4256	28.8	27	27	143.9	111	110	9.9	7	5
*RUPP EXP. 2-165	29.1	--	--	147.8	--	--	2.9	--	--
FUNK 29097	29.6	--	--	134.4	--	--	5.1	--	--
*FUNK 2008X	29.7	--	--	143.7	--	--	6.8	--	--
JACQUES JX77	30.0	--	--	128.4	--	--	8.8	--	--
*P-A-G SX179	30.1	--	--	146.3	--	--	8.5	--	--
ANDERSONS PSX98	30.7	--	--	139.1	--	--	7.9	--	--
*GOLDEN HARVEST H-2380	30.7	31	--	160.8	118	--	6.6	4	--
GREAT LAKES GL-466	30.8	31	29	136.3	116	116	10.7	6	5
STANTON SX10100	30.8	31	--	137.8	111	--	3.0	3	--
JACQUES JX97	31.0	30	--	138.6	117	--	9.0	6	--
*PIONEER 3747	31.2	--	--	146.4	--	--	5.2	--	--
DEKALB-PFIZER XL-25A	31.3	31	--	139.4	106	--	6.4	4	--
PIONEER 3780	31.5	31	29	140.3	115	117	6.9	6	6
KING K4422	31.5	--	--	140.9	--	--	7.0	--	--
KING K4423	31.7	--	--	140.6	--	--	10.2	--	--
*GREAT LAKES GL-487	31.9	--	--	155.2	--	--	2.8	--	--
DAIRYLAND DX1003	31.9	31	29	126.4	104	106	9.4	7	5
MCKENZIE 411	31.9	--	--	141.3	--	--	4.2	--	--
SUPER CROST 1940	32.0	31	--	132.4	114	--	7.1	4	--
*DEKALB-PFIZER DK-484	32.1	--	--	145.9	--	--	10.7	--	--
*GREAT LAKES GL-516	32.1	32	--	148.5	116	--	9.5	6	--
*DEKALB-PFIZER T1000	32.1	32	31	151.3	123	116	5.9	4	4
FUNK G-4315	32.5	32	--	132.0	112	--	5.0	4	--
*SUPER CROST 2410	32.9	32	--	151.3	115	--	7.6	5	--
DAIRYLAND DX1105	32.9	33	--	133.3	112	--	3.8	3	--
*JACQUES JX151	33.1	33	--	143.8	114	--	10.0	8	--
AVERAGE	29.3	29	28	130.6	108	111	7.6	5	5
Range	25.5	24	24	94.5	80	88	0.0	2	2
	33.1	33	31	160.8	123	125	20.0	9	6
Least significant difference	2.0	1.3	1.0	12.2	8	5	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

	1982	1982	1981
Planted	May 18	May 15	May 22
Harvested	October 22	November 2	November 7
Soil Type	Isabella loam	Isabella loam	Isabella loam
Previous crop	Wheat	Corn	Alfalfa
Population	21,200	21,500	21,300
Rows	38"	38"	38"
Fertilizer	133-100-103	129-100-133	127-100-32
Soil Test: pH	6.6	6.7	6.5
P	60 (medium high)	68 (medium high)	87 (high)
K	185 (medium)	301 (high)	284 (high)

Farm cooperators: Floyd Hauck, Rosebush

County Extension Director: Lyle Thompson, Mt. Pleasant

Table 17

NORTH CENTRAL MICHIGAN
Montcalm County Trial - Irrigated vs. Not Irrigated
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE						% STALK LODGING					
	1983	2 YR	3 YR	1983		2 Years		3 Years		1983	2 Years		3 Years		
				Not Irrig	Irrig	Not Irrig	Irrig	Not Irrig	Irrig		Not Irrig	Irrig	Not Irrig	Irrig	
FUNK 0008X	22.6	--	--	97.5	38.9	--	--	--	--	23.8	10.9	--	--	--	--
PAYCO SX431	23.4	23	--	102.6	45.3	108	69	--	--	9.5	9.3	8	10	--	--
GREAT LAKES GL-381	23.5	--	--	109.8	43.0	--	--	--	--	11.7	13.7	--	--	--	--
MFI 1492	23.8	--	--	121.3	46.4	--	--	--	--	9.4	16.3	--	--	--	--
DEKALB-PFIZER T891	23.9	--	--	95.7	36.5	--	--	--	--	10.1	19.4	--	--	--	--
PAYCO SX599	24.0	23	--	112.3	47.3	114	69	--	--	5.1	9.9	3	10	--	--
P-A-G SX155	24.3	--	--	110.5	39.5	--	--	--	--	4.0	18.8	--	--	--	--
DAIRYLAND DX1094	24.3	23	--	124.6	59.3	134	82	--	--	6.1	8.9	4	8	--	--
DAIRYLAND DX1091	24.3	--	--	117.5	55.8	--	--	--	--	4.8	6.1	--	--	--	--
MCKENZIE 858	24.4	--	--	120.9	41.3	--	--	--	--	12.7	10.8	--	--	--	--
ANDERSONS PSX93	24.4	--	--	140.9	46.7	--	--	--	--	5.9	6.0	--	--	--	--
STANTON SX1090	24.4	22	--	129.3	54.5	133	82	--	--	2.2	5.0	1	6	--	--
RUPP XR1490	24.7	--	--	121.4	64.1	--	--	--	--	8.1	7.4	--	--	--	--
SUPER CROST 1542	24.9	--	--	101.2	47.7	--	--	--	--	11.4	7.8	--	--	--	--
GREAT LAKES GL-422	25.0	23	23	146.0	66.7	154	95	144	95	5.8	8.2	6	9	5	8
PIONEER X7064	25.0	--	--	142.5	61.9	--	--	--	--	7.0	5.2	--	--	--	--
*+PIONEER 3901	25.1	24	23	170.6	75.7	167	100	154	99	6.9	13.7	5	10	4	7
GARNO S-90	25.4	23	23	143.9	61.9	154	94	143	94	7.9	7.9	6	10	5	8
STANTON SX1095	25.4	24	--	158.0	63.3	162	95	--	--	5.6	9.4	4	12	--	--
*+FUNK 29097	25.5	--	--	176.0	75.5	--	--	--	--	11.0	10.4	--	--	--	--
DAIRYLAND DX1096	25.5	24	23	143.6	63.5	150	90	141	94	3.0	8.5	5	9	7	11
PAYCO SX620	25.5	--	--	152.0	60.5	--	--	--	--	10.1	12.5	--	--	--	--
DEKALB-PFIZER XL-8	25.7	24	--	130.4	50.5	132	78	--	--	8.1	6.7	6	6	--	--
GREAT LAKES 81237	26.0	--	--	160.8	65.5	--	--	--	--	4.5	5.8	--	--	--	--
*+GREAT LAKES 82351	26.2	--	--	170.2	76.8	--	--	--	--	4.4	5.7	--	--	--	--
* DEKALB-PFIZER EX-2120	26.6	25	--	168.8	62.4	157	93	--	--	7.5	21.2	4	15	--	--
DAIRYLAND DX1093	26.6	--	--	132.7	55.2	--	--	--	--	10.9	8.0	--	--	--	--
STANTON SX10100	26.9	26	--	150.6	65.1	148	93	--	--	17.2	9.0	13	11	--	--
JACQUES JX97	27.1	24	--	149.1	63.2	150	87	--	--	12.5	4.5	8	9	--	--
*+PIONEER 3744	27.1	25	25	184.7	90.5	172	108	158	108	5.8	1.5	4	5	3	5
* SUPER CROST 1940	27.5	--	--	167.4	70.0	--	--	--	--	7.8	5.6	--	--	--	--
MCKENZIE 411	27.5	--	--	164.9	64.4	--	--	--	--	6.0	4.4	--	--	--	--
DEKALB-PFIZER T950	27.7	26	25	164.6	66.3	148	84	130	79	7.5	8.7	6	10	6	8
MFI 1776	27.7	--	--	157.6	70.9	--	--	--	--	11.4	8.7	--	--	--	--
*+DEKALB-PFIZER DK-484	27.8	--	--	194.7	83.2	--	--	--	--	11.4	8.4	--	--	--	--
WOLVERINE W166	27.9	--	--	141.9	62.9	--	--	--	--	22.6	11.3	--	--	--	--
*+PIONEER 3747	28.1	--	--	157.5	75.9	--	--	--	--	8.8	5.9	--	--	--	--
*+KING K4422	28.1	--	--	182.8	82.6	--	--	--	--	6.4	3.7	--	--	--	--
KING K4423	28.1	--	--	164.6	69.2	--	--	--	--	6.2	6.7	--	--	--	--
*+GOLDEN HARVEST H-2480	28.2	--	--	164.0	74.3	--	--	--	--	9.8	13.2	--	--	--	--
* SUPER CROST 2396	28.4	26	26	166.6	69.0	163	94	152	97	16.7	12.2	11	12	9	11
FUNK 2008X	28.5	--	--	164.0	70.3	--	--	--	--	4.9	10.2	--	--	--	--
GREAT LAKES GL-466	28.5	26	25	154.5	73.0	156	96	144	92	14.3	10.5	9	8	7	9
*+DAIRYLAND DX1003	28.5	25	25	185.2	81.1	169	98	154	98	10.2	6.6	6	8	6	7
* FUNK G-4342	28.6	--	--	168.8	68.5	--	--	--	--	2.1	4.5	--	--	--	--
*+STAUFFER SEEDS S5340	28.8	--	--	182.7	79.7	--	--	--	--	2.2	11.9	--	--	--	--
P-A-G SX193	28.8	--	--	129.4	63.8	--	--	--	--	18.4	11.4	--	--	--	--
* DEKALB-PFIZER T1000	28.8	27	27	169.0	68.7	168	97	153	95	11.3	4.4	8	6	7	7
GOLDEN HARVEST H-2380	28.8	25	--	163.4	72.9	161	99	--	--	10.4	8.3	8	9	--	--
*+GREAT LAKES GL-522	28.9	27	27	175.4	83.9	176	109	160	106	9.4	3.8	5	6	3	5
PAYCO SX872	29.8	--	--	150.7	64.4	--	--	--	--	9.0	8.5	--	--	--	--
*+DAIRYLAND DX1006	30.0	27	--	182.9	79.1	169	94	--	--	10.7	11.5	9	14	--	--
*+STAUFFER SEEDS S5650	30.2	28	--	187.5	87.6	171	108	--	--	8.3	2.2	4	4	--	--
*+P-A-G SX239	30.2	--	--	179.1	79.1	--	--	--	--	7.2	4.4	--	--	--	--
JACQUES JX151	30.3	27	--	164.7	71.6	157	92	--	--	14.2	11.2	10	12	--	--
*+ANDERSONS PSX105	31.0	--	--	170.2	82.9	--	--	--	--	13.0	12.9	--	--	--	--
P-A-G EXP. 111571	31.3	--	--	165.2	72.5	--	--	--	--	2.9	7.0	--	--	--	--
*+MFI 1812	31.6	--	--	172.6	75.3	--	--	--	--	6.7	11.5	--	--	--	--
*+STAUFFER SEEDS S5260	32.2	29	29	184.1	87.5	184	113	158	104	10.8	3.7	6	4	5	4
AVERAGE	27.0	25	25	151.4	66.4	154	93	149	97	9.1	8.9	6	9	6	7
RANGE	22.6	22	23	95.7	36.5	108	69	130	79	2.1	1.5	1	4	3	4
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	32.2	29	29	194.7	90.5	184	113	160	108	23.8	21.2	13	15	9	11
LEAST SIGNIFICANT DIFFERENCE	1.9	1.1	0.7	14.9	7.5	9	6	7	5	--	--	--	--	--	--

(continued)

Table 17 (continued)

* SIGNIFICANTLY BETTER THAN AVERAGE YIELD, IRRIGATED, IN 1983
 * SIGNIFICANTLY BETTER THAN AVERAGE YIELD, NOT IRRIGATED, IN 1983

	1983	1982	1981
	May 6	May 6	May 2
Planted	October 24	November 3	November 6
Harvested	Montcalm - McBride	Montcalm - McBride	Montcalm - McBride
Soil Type	sandy loam	sandy loam	sandy loam
Previous crop	Alfalfa	Alfalfa	Alfalfa
Population	21,400	21,000	20,850
Rows	30"	30"	30"
Fertilizer	330-125-125	342-139-139	222-143-143
Irrigation	7 inches	4 inches	4 inches
Soil test - pH	5.8	5.6	5.9
P	417 (very high)	562 (very high)	512 (very high)
K	202 (medium)	251 (high)	284 (high)

Farm Cooperator: Theron Comden, Montcalm Research Farm, Lakeview

County Extension Director: William Carpenter, Stanton (1983) James Crosby, Stanton (1982, 1981)

Table 18

NORTH CENTRAL MICHIGAN
 Mason County Trial
 ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	1983	YR	YR	1983	YR	YR	1983	YR	YR
DEKALB-PFIZER T891	22.8	--	--	74.6	--	--	16.4	--	--
KING K1163	23.2	--	--	73.4	--	--	8.7	--	--
FUNK G-4085	23.3	--	--	82.0	--	--	18.6	--	--
PAYCO SX431	23.3	21	--	81.1	90	--	20.4	16	--
KING K1173	23.6	--	--	84.3	--	--	20.7	--	--
FUNK 0008X	23.9	--	--	87.3	--	--	10.2	--	--
FUNK G-4081	24.0	--	--	85.4	--	--	13.0	--	--
GREAT LAKES GL-381	24.1	--	--	95.1	--	--	12.4	--	--
GREAT LAKES GL-422	24.2	22	22	128.4	132	133	16.7	15	13
SUPER CROST 1621	24.4	--	--	108.2	--	--	11.9	--	--
SUPER CROST 1542	24.4	--	--	83.2	--	--	32.4	--	--
*FUNK 29097	24.5	--	--	137.9	--	--	19.3	--	--
GARNO S-90	24.6	22	22	119.3	125	126	17.1	16	13
KING K2203	24.6	--	--	124.5	--	--	12.2	--	--
GOLDEN HARVEST H-2300	24.6	22	--	126.8	130	--	13.8	8	--
STAUFFER SEEDS S3242	24.7	22	--	125.8	134	--	11.5	9	--
DEKALB-PFIZER XL-8	24.7	22	--	101.0	113	--	5.7	8	--
PAYCO SX599	24.7	22	--	117.5	123	--	15.5	11	--
*PAYCO SX620	24.7	--	--	131.5	--	--	10.8	--	--
*STAUFFER SEEDS S3306	24.9	23	22	132.0	132	131	11.3	13	13
*PIONEER 3901	24.9	22	21	140.2	140	135	7.0	9	8
P-A-G SX181	25.1	23	--	119.1	133	--	20.4	13	--
*DEKALB-PFIZER EX-2120	25.3	23	--	138.7	120	--	10.1	9	--
FUNK 2008X	25.3	--	--	107.3	--	--	22.5	--	--
KING K2204	25.7	--	--	109.3	--	--	8.6	--	--
PIONEER X7064	25.8	--	--	125.5	--	--	8.9	--	--
FUNK G-4224	26.1	23	22	96.7	114	119	22.1	17	15
FUNK G-4256	26.3	23	23	111.4	118	115	13.1	13	11
SUPER CROST 1940	26.4	--	--	122.6	--	--	18.4	--	--
*PIONEER 3744	26.4	--	--	144.7	--	--	12.2	--	--
*JACQUES JX97	26.6	23	--	129.8	131	--	12.7	10	--
*GREAT LAKES GL-522	27.0	25	25	148.6	150	142	10.6	7	10
*DEKALB-PFIZER DK-484	27.1	--	--	138.6	--	--	8.5	--	--
*GREAT LAKES GL-466	27.3	24	--	137.1	137	--	14.1	12	--
DAIRYLAND DX1006	27.3	--	--	127.8	--	--	6.3	--	--
*P-A-G SX239	27.6	--	--	141.2	--	--	15.4	--	--
*P-A-G SX195	27.7	--	--	137.3	--	--	11.6	--	--
*PIONEER 3747	27.7	--	--	129.3	--	--	12.4	--	--
*DEKALB-PFIZER T1000	27.7	26	25	142.4	142	133	13.3	13	17
*O'S GOLD 6880	28.7	25	25	132.0	134	128	7.1	6	12
AVERAGE	25.4	23	23	116.3	128	129	13.8	11	12
RANGE	22.8	21	21	73.4	90	115	5.7	6	8
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.7	26	25	148.6	150	142	32.4	17	17
LEAST SIGNIFICANT DIFFERENCE	1.8	1.1	1.0	12.4	8	5	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

	1983	1982	1981
	May 5	May 7	May 4
Planted	October 26	October 27	November 13
Harvested	Arden and	Arden and	Arden and
Soil Type	Tosco sandy loam	Tosco loamy sand	Tosco loamy sand
Previous Crop	Corn	Corn	Corn
Population	20,800	21,400	20,900
Rows	30"	30"	30"
Fertilizer	134-76-70 + manure	240-96-117+Zn	245-144-111
Soil Test: pH	7.1	7.0	6.3
P	233 (very high)	472 (very high)	282 (very high)
K	806 (very high)	576 (very high)	380 (very high)
Irrigation	3 inches	1 time @ 1"	6 times @ 1" = 6"

Farm Cooperator: Robert and August Ohse, Scottville (1983)

Elmer Gowell, Rothbury (1982, 1981) Oceano county

County Extension Director: Bill Robb, Scottville (1983) Ed Strong, Hart (1982, 1981)

Table 19

NORTHERN MICHIGAN
 Grand Traverse County Trial
 ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	1983	YR	YR	1983	YR	YR	1983	YR	YR
NORTHROP KING PX9055	21.5	--	--	59.8	--	--	18.4	--	--
P-A-G SX111	21.7	20	--	94.6	72	--	30.8	41	--
NORTHROP KING PX9144	22.0	21	--	78.3	68	--	27.9	52	--
FUNK G-4065	22.2	20	20	78.9	68	72	35.8	44	33
GREAT LAKES GL-192	22.2	21	21	74.2	68	76	34.6	38	27
*KING K1163	22.4	--	--	99.5	--	--	26.4	--	--
KING K2204	22.7	--	--	87.5	--	--	24.2	--	--
MCKENZIE 858	23.0	--	--	88.1	--	--	23.3	--	--
STANTON 1080	23.2	--	--	65.3	--	--	36.0	--	--
FUNK 0008X	23.8	--	--	75.5	--	--	54.0	--	--
STANTON 1085	23.8	--	--	65.2	--	--	32.8	--	--
FUNK G-4081	23.9	23	--	78.1	69	--	12.1	24	--
PIONEER 3930	23.9	--	--	83.2	--	--	11.1	--	--
PIONEER 3950	24.1	22	23	91.6	79	84	16.7	23	16
*P-A-G SX155	24.2	--	--	99.0	--	--	15.8	--	--
JACQUES JX47	24.4	23	--	64.9	59	--	21.1	23	--
DEKALB-PFIZER T891	24.5	22	--	71.9	60	--	21.7	28	--
PIONEER 3906	24.9	--	--	78.5	--	--	5.6	--	--
*KING K1173	25.0	--	--	113.0	--	--	15.2	--	--
*KING K2203	25.0	--	--	107.0	--	--	15.7	--	--
ANDERSONS PSX93	25.0	--	--	93.8	--	--	28.6	--	--
FUNK G-4085	25.6	23	23	74.1	69	71	27.9	32	26
*GREAT LAKES GL-422	25.7	24	26	110.8	94	94	23.2	24	19
*GREAT LAKES 81237	25.9	--	--	103.6	--	--	7.9	--	--
*PIONEER 3901	25.9	23	25	114.0	100	103	18.5	20	15
*NORTHROP KING PX9301	26.5	--	--	108.7	--	--	8.7	--	--
DEKALB-PFIZER XL-8	27.3	23	24	80.2	80	83	7.5	16	11
*GREAT LAKES 82351	27.4	--	--	118.9	--	--	7.2	--	--
P-A-G SX179	28.0	--	--	99.7	--	--	21.7	--	--
AVERAGE	24.8	22	23	88.4	74	83	22.0	30	21
RANGE	21.5	20	20	59.8	59	71	5.6	16	11
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.0	24	26	118.9	100	103	54.0	52	33
LEAST SIGNIFICANT DIFFERENCE	1.7	1.0	1.0	9.2	7	5	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

	1983	1982	1981
	May 5	May 8	May 13
Planted	October 26	October 28	November 12
Harvested	Coventry Newaygo	Coventry Newaygo	Coventry Newaygo
Soil Type	loam	loam	loam
Previous Crop	Corn	Corn	Corn
Population	20,900	20,800	21,000
Rows	30"	30"	30"
Fertilizer	137-48-72	140-69-105	125-64-60
Soil Test: pH	6.5	6.4	6.6
P	294 (very high)	536 (very high)	512 (very high)
K	303 (high)	724 (very high)	492 (very high)

Farm Cooperator: George Svec, Buckley

County Extension Director: Steve Fouch, Traverse City

Table 20

NORTHERN MICHIGAN
 Missaukee County Trial - Silage
 ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 4

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			DRY WEIGHT		
	1983	2	3	1983	2	3	1983	2	3
	1983	YR	YR	1983	YR	YR	1983	YR	YR
FUNK G-4065	31.6	31.9	32.0	18.3	15.0	14.8	5.8	4.8	4.7
STANTON 1080	30.8	31.6	--	14.9	13.9	--	4.6	4.4	--
PIONEER 3930	30.5	--	--	18.3	--	--	5.6	--	--
FUNK G-4085	30.4	30.8	30.0	14.9	14.4	14.6	4.6	4.5	4.4
STANTON 1085	30.0	--	--	16.2	--	--	4.8	--	--
DEKALB-PFIZER T891	29.6	32.8	--	15.6	13.1	--	4.6	4.2	--
GREAT LAKES 82304	29.2	--	--	19.9	--	--	5.8	--	--
PIONEER 3906	29.2	--	--	18.0	--	--	5.3	--	--
DAIRYLAND DX1088	29.1	--	--	18.2	--	--	5.3	--	--
O'S GOLD 2310	29.0	28.8	--	21.3	18.0	--	6.2	5.2	--
DEKALB-PFIZER XL-8	28.8	27.1	26.7	20.4	17.2	17.5	5.9	4.7	4.7
FUNK G-4081	28.5	29.1	--	18.1	16.8	--	5.2	4.9	--
FUNK 0008X	28.4	--	--	18.1	--	--	5.1	--	--
NORTHROP KING PX9144	28.2	--	--	17.5	--	--	4.9	--	--
KING K1122	28.0	--	--	18.3	--	--	5.1	--	--
ANDERSONS PSX93	26.9	--	--	20.3	--	--	5.5	--	--
KING R141	26.8	29.4	--	18.4	15.8	--	4.9	4.6	--
DAIRYLAND 1003	26.8	--	--	22.8	--	--	6.1	--	--
GREAT LAKES GL-283	26.7	26.5	26.4	22.5	19.6	19.8	6.0	5.2	5.2
GOLDEN HARVEST H-2374	26.6	--	--	19.8	--	--	5.3	--	--

(continued)

Table 20 (continued)

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1983	2	3	1983	2	3	1983	2	3
NORTHROP KING PX9301	26.4	--	--	18.1	--	--	4.8	--	--
DAIRYLAND DX1094	26.0	--	--	18.5	--	--	4.8	--	--
GOLDEN HARVEST H-2300	25.5	24.3	--	21.5	19.6	--	5.4	4.7	--
PIONEER 3901	25.0	24.3	24.4	24.4	21.1	21.2	6.1	5.1	5.2
KING K1173	24.6	--	--	18.3	--	--	4.5	--	--
O'S GOLD 1170A	24.0	--	--	21.5	--	--	5.2	--	--
Average	27.8	28.7	27.9	18.7	16.7	17.5	5.2	4.7	4.8
Range	24.0	24.3	24.4	14.9	13.1	14.6	4.5	4.2	4.4
	31.6	32.8	32.0	24.4	21.1	21.2	6.2	5.2	5.2
Least significant difference	2.4	2.0	1.4	1.8	1.4	1.0	0.5	0.4	0.4

	1982	1982	1981
Planted	May 17	May 7	May 16
Harvested	September 20	September 16	September 21
Soil Type	Marlette sandy loam	Marlette sandy loam	Marlette sandy loam
Previous crop	Corn	Corn	Corn
Population	20,900	20,500	20,100
Rows	30"	30"	30"
Fertilizer	155-37-82	108-30-75	128-32-137
Soil test: pH	6.2	5.8	6.2
P	92 (high)	113 (very high)	98 (high)
K	312 (very high)	267 (high)	268 (high)

Farm cooperators: Lake City Experiment Station, Michigan State University, Lake City
County Extension Director: Carl Stephens, Lake City

Table 21

NORTHERN MICHIGAN
Alpena County Trial - Grain
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1983	2	3	1983	2	3	1983	2	3
	1983	YR	YR	1983	YR	YR	1983	YR	YR
P-A-G SX111	26.0	24	--	36.4	62	--	4.6	4	--
FUNK G-4065	27.2	25	25	29.5	44	62	7.8	10	12
GREAT LAKES GL-192	27.2	--	--	33.1	--	--	4.7	--	--
*GREAT LAKES GL-344	27.4	26	--	41.6	54	--	3.3	3	--
*PIONEER 3930	27.7	--	--	44.0	--	--	0.8	--	--
KING K1113	28.3	--	--	32.5	--	--	3.1	--	--
*PIONEER 3851	28.6	--	--	43.6	--	--	5.1	--	--
FUNK G-4085	28.9	30	28	29.5	50	64	2.1	3	4
STANTON 1080	29.1	--	--	26.5	--	--	3.7	--	--
*DEKALB-PFIZER XL-8	29.4	30	30	40.7	69	77	2.1	1	1
STANTON 1085	29.8	--	--	25.4	--	--	4.3	--	--
STAUFFER SEEDS S2101WX	30.4	29	28	30.9	64	78	2.9	3	5
KING K1173	30.7	--	--	37.4	--	--	1.8	--	--
KING K1122	30.8	27	26	25.3	46	64	1.5	3	3
*P-A-G SX155	31.5	--	--	42.0	--	--	3.6	--	--
FUNK 0008X	31.9	--	--	25.5	--	--	1.5	--	--
JACQUES JX32	32.1	29	--	28.2	48	--	3.0	4	--
FUNK G-4081	32.2	30	--	34.8	46	--	0.7	3	--
*PIONEER 3906	32.8	32	--	44.7	65	--	0.0	0	--
*GARNO S-90	32.9	33	33	46.7	64	79	1.5	3	3
JACQUES JX21	33.3	29	--	26.5	44	--	0.7	1	--
P-A-G SX179	33.3	--	--	28.1	--	--	0.0	--	--
*KING K2203	33.4	--	--	42.2	--	--	1.4	--	--
JACQUES JX55	33.7	--	--	25.9	--	--	0.0	--	--
*GREAT LAKES GL-422	33.8	33	33	43.3	62	76	0.0	0	1
*PIONEER 3901	33.8	32	32	43.5	69	82	2.1	2	2
GOLDEN HARVEST H-2300	34.0	--	--	35.4	--	--	1.5	--	--
GOLDEN HARVEST H-2374	34.0	--	--	28.2	--	--	0.8	--	--
AVERAGE	31.0	29	29	34.7	56	73	2.3	3	4
RANGE	26.0	24	25	25.3	44	62	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	34.0	33	33	46.7	69	82	7.8	10	12
LEAST SIGNIFICANT DIFFERENCE	2.4	1.5	1.2	5.8	7	5	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

Table 21 (continued)

	1982	1982	1981
Planted	June 15	May 11	May 21
Harvested	October 27	October 29	November 10
Soil Type		Onway fine sandy loam	Onway fine sandy loam
Previous crop	Pasture Sod	Fallow	Sunflowers
Population	19,800	20,800	21,000
Rows	30"	30"	30"
Fertilizer	55-21-21	110-78-78	156-84-84, manure
Soil Test: pH	7.4	6.0	6.5
P	17 (very low)	57 (medium)	43 (medium low)
K	104 (low)	92 (low)	300 (high)
Farm Cooperators: Ken and Kim Sumerix, Alpena (1983) Steve Gonyea, Ossineke (1982, 1981)			
County Extension Director: Bob Dluzen, Alpena			

Table 22

NORTHERN MICHIGAN
Alpena County Trial - Silage
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			DRY WEIGHT		
	1983	2	3	1983	2	3	1983	2	3
	1983	YR	YR	1983	YR	YR	1983	YR	YR
PIONEER 3851	28.4	--	--	8.5	--	--	2.4	--	--
KING K1113	27.4	--	--	6.9	--	--	1.9	--	--
GREAT LAKES GL-192	26.1	--	--	6.9	--	--	1.8	--	--
P-A-G SX111	25.9	27.4	--	6.0	9.5	--	1.5	2.6	--
FUNK G-4065	25.7	28.4	28.7	6.7	9.9	13.7	1.7	2.9	4.0
STAUFFER SEEDS S2101WX	25.5	26.9	26.6	6.1	10.3	14.4	1.6	2.8	3.8
KING K2203	25.4	--	--	7.8	--	--	2.0	--	--
STANTON 1080	25.4	--	--	6.5	--	--	1.7	--	--
FUNK G-4081	25.3	25.6	--	7.9	10.6	--	2.0	2.7	--
FUNK 0008X	25.2	--	--	6.4	--	--	1.6	--	--
FUNK G-4085	25.0	25.9	26.5	6.3	11.9	15.5	1.6	3.1	4.2
P-A-G SX155	25.0	--	--	7.7	--	--	1.9	--	--
KING K1173	24.7	--	--	6.5	--	--	1.6	--	--
GOLDEN HARVEST H-2300	24.4	--	--	7.9	--	--	1.9	--	--
STANTON 1085	24.3	--	--	5.8	--	--	1.4	--	--
JACQUES JX55	24.1	--	--	6.5	--	--	1.6	--	--
KING K1122	24.0	26.5	26.7	5.9	7.7	12.5	1.4	2.0	3.3
P-A-G SX179	23.9	--	--	7.1	--	--	1.7	--	--
JACQUES JX32	23.7	26.0	--	6.2	9.1	--	1.5	2.4	--
GREAT LAKES GL-344	23.7	26.7	--	8.0	10.5	--	1.9	2.8	--
PIONEER 3930	23.5	--	--	7.1	--	--	1.7	--	--
JACQUES JX21	23.2	25.3	--	6.5	8.5	--	1.5	2.2	--
PIONEER 3906	23.2	24.6	--	8.2	12.0	--	1.9	3.0	--
DEKALB-PFIZER XL-8	23.1	23.9	24.3	7.7	12.5	16.3	1.8	3.0	4.0
GREAT LAKES GL-422	23.1	23.6	23.9	8.7	13.9	17.9	2.0	3.3	4.3
GARNO S-90	22.9	23.3	23.8	9.0	13.8	17.9	2.1	3.2	4.3
PIONEER 3901	22.8	22.7	23.0	7.6	12.4	17.5	1.7	2.8	4.0
GOLDEN HARVEST H-2374	22.7	--	--	6.6	--	--	1.5	--	--
Average	24.6	25.4	25.4	7.1	10.9	15.7	1.7	2.7	3.9
Range	22.7	22.7	23.0	6.0	7.7	12.5	1.4	2.0	3.3
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.4	28.4	28.7	9.0	13.9	17.9	2.4	3.3	4.3
Least significant difference	2.4	1.9	1.5	1.4	1.1	1.0	0.3	0.5	0.4

	1982	1982	1981
Planted	June 15	May 11	May 21
Harvested	September 20	September 16	September 21
Soil Type		Onway fine sandy loam	Onway fine sandy loam
Previous crop	Pasture sod	Fallow	Sunflowers
Population	20,800	21,300	22,100
Rows	30"	30"	30"
Fertilizer	55-21-21	110-78-78	156-84-84, manure
Soil test: pH	7.4	6.0	6.5
P	17 (very low)	57 (medium)	43 (medium low)
K	104 (low)	92 (low)	300 (high)
Farm cooperators: Ken and Kim Sumerix, Alpena (1983); Steve Gonyea, Ossineke (1982, 1981)			
County Extension Director: Bob Dluzen, Alpena			

Table 23

NORTHERN MICHIGAN
Menominee County Trial - Grain
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR
FUNK 0008X	20.7	--	--	75.1	--	--	2.3	--	--
DEKALB-PFIZER XL-6	21.3	--	--	73.2	--	--	6.8	--	--
FUNK G-A085	21.4	27	27	98.9	110	100	2.6	2	2
RENK RK3	21.6	--	--	74.2	--	--	0.0	--	--
DEKALB-PFIZER XL-8	21.8	28	32	84.1	106	105	0.0	0	0
KING K1107	22.0	--	--	83.2	--	--	11.1	--	--
LAND O'LAKES LOL393	23.2	--	--	78.9	--	--	9.8	--	--
FUNK G-A081	23.6	30	--	95.5	115	--	4.7	2	--
JUNG 2350	24.0	29	--	75.9	102	--	0.0	0	--
GARNO S-90	24.3	30	33	118.1	123	113	0.0	2	2
FUNK 29097	24.8	--	--	120.0	--	--	0.0	--	--
FUNK G-A141A	25.4	30	--	72.8	107	--	2.1	1	--
JACQUES JX47	25.8	--	--	78.5	--	--	2.3	--	--
LAND O'LAKES LOL390	26.2	--	--	77.0	--	--	2.4	--	--
PIONEER 3930	26.6	--	--	102.3	--	--	0.0	--	--
PIONEER 3906	26.6	32	34	82.0	111	109	14.9	7	5
FUNK G-A065	26.7	28	27	95.1	104	97	0.0	4	3
JUNG 2250	26.7	--	--	82.9	--	--	2.6	--	--
DEKALB-PFIZER T891	27.2	--	--	71.0	--	--	7.0	--	--
LAND O'LAKES LOL188	27.7	--	--	70.7	--	--	6.8	--	--
JUNG 2390	27.8	32	34	78.9	105	95	6.8	6	4
FUNK G-A256	28.0	--	--	80.2	--	--	0.0	--	--
FUNK 2008X	28.4	--	--	100.3	--	--	0.0	--	--
JUNG 2550	28.5	--	--	99.5	--	--	0.0	--	--
PIONEER 3901	29.3	33	36	89.0	120	123	2.3	1	1
PIONEER 3947	30.4	--	--	118.5	--	--	0.0	--	--
AVERAGE	25.4	30	32	87.5	110	106	3.7	3	2
RANGE	20.7	27	27	70.7	102	95	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	30.4	33	36	120.0	123	123	14.9	7	5
**LEAST SIGNIFICANT DIFFERENCE	**	2	2	**	10	7	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

** 1983 data from only one replication with some deer damage. Other replications ruined by deer. No statistical analysis of data for significance is possible.

	1983	1982	1981
Planted	May 9	May 7	May 1
Harvested	October 24	October 5	October 7
Soil Type	Emmet sandy loam	onaway loam	onaway loam
Previous Crop	Corn	Beans	Corn
Population	20,200	21,100	18,000
Rows	30"	30"	30"
Fertilizer	150-100-100	148-100-100	145-55-55
Soil Test: pH	7.1	6.9	7.4
P	56 (medium)	38 (low)	53 (medium)
K	174 (medium)	168 (medium)	288 (high)

Farm Cooperator: Streffling Farms, Stephenson (1983, 1982) Nick Thoney, Daggett (1981)

County Extension Director: Richard A. Breyer, Stephenson

Cooperator: Dr. Richard Leep, Dept. Crop and Soil Science
Michigan State University, Marquette

Table 24

NORTHERN MICHIGAN
Menominee County Trial - Silage
ONE, TWO, THREE YEAR AVERAGES - 1983, 1982, 1981

ZONE 4

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			TONS PER ACRE			DRY WEIGHT		
	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR	1983	2 YR	3 YR
KING K1107	39.6	--	--	9.9	--	--	3.9	--	--	6.1	6.0	--
FUNK G-A081	37.3	35.7	--	16.6	17.3	--	5.1	--	--	5.1	--	--
JUNG 2350	36.6	37.1	--	13.9	16.9	--	5.1	6.3	--	7.1	--	--
FUNK 2008X	35.2	--	--	19.9	--	--	5.3	--	--	5.3	--	--
LAND O'LAKES LOL188	34.9	--	--	14.9	--	--	6.3	--	--	4.8	5.9	5.4
FUNK G-A256	34.8	--	--	18.2	--	--	5.2	--	--	6.1	7.2	7.0
FUNK G-A085	34.8	36.1	39.4	13.7	16.2	14.0	4.9	--	--	4.9	--	--
LAND O'LAKES LOL393	34.4	--	--	14.9	--	--	5.5	--	--	5.5	--	--
GARNO S-90	34.2	33.9	37.3	17.8	21.2	19.4	6.1	6.2	5.6	6.8	7.3	6.4
RENK RK3	33.6	--	--	14.4	--	--	4.7	--	--	7.0	--	--
FUNK G-A065	33.4	35.5	39.3	14.4	18.3	15.6	6.1	--	--	6.1	--	--
JUNG 2250	33.4	--	--	15.1	--	--	5.5	6.6	--	5.5	--	--
JUNG 2390	33.2	33.4	36.3	14.5	17.6	15.5	5.5	--	--	5.5	--	--
LAND O'LAKES LOL390	33.2	--	--	17.8	--	--	5.5	--	--	5.5	--	--
PIONEER 3906	33.1	33.1	37.0	18.5	18.8	16.0	5.5	--	--	5.5	--	--
PIONEER 3901	33.0	32.1	33.0	20.6	23.0	19.7	5.5	--	--	5.5	--	--
PIONEER 3930	32.9	--	--	14.4	--	--	5.5	--	--	5.5	--	--
JUNG 29097	32.7	--	--	21.4	--	--	5.5	--	--	5.5	--	--
JUNG 2550	32.6	--	--	18.7	--	--	5.5	--	--	5.5	--	--
FUNK G-A141A	32.5	33.6	--	16.8	19.5	--	5.5	--	--	5.5	--	--
DEKALB-PFIZER XL-6	30.5	--	--	15.0	--	--	4.6	--	--	4.6	--	--
DEKALB-PFIZER XL-8	30.1	33.0	37.0	15.8	19.0	15.7	4.6	6.4	5.5	4.6	6.4	5.5
DEKALB-PFIZER T891	30.0	--	--	13.3	--	--	4.0	--	--	4.0	--	--
JACQUES JX47	29.3	--	--	13.9	--	--	4.2	--	--	4.2	--	--
PIONEER 3947	29.2	--	--	17.3	--	--	5.1	--	--	5.1	--	--
FUNK 0008X	28.6	--	--	15.4	--	--	4.4	--	--	4.4	--	--
Average	33.2	34.3	37.0	15.9	18.7	16.5	5.3	6.4	5.9	5.3	6.4	5.9
Range	28.6	32.1	33.0	9.9	16.2	14.0	3.9	5.9	5.4	3.9	5.9	5.4
	to	to	to	to	to	to	to	to	to	to	to	to
	39.6	37.1	39.4	21.4	23.0	19.7	7.1	7.3	7.0	7.1	7.3	7.0
Least significant difference	3.4	2.7	2.1	1.9	1.6	1.3	0.7	0.6	0.5	0.7	0.6	0.5

	1983	1982	1981
Planted	May 9	May 7	May 1
Harvested	September 7	September 16	September 16
Soil Type	Emmet sandy loam	onaway loam	onaway loam
Previous crop	Corn	Beans	Corn
Population	20,800	19,900	18,000
Rows	30"	30"	30"
Fertilizer	150-100-100	148-100-100	145-55-55
Soil test: pH	7.1	6.9	7.4
P	56 (medium)	38 (low)	53 (medium)
K	174 (medium)	168 (medium)	288 (high)

Farm cooperators: Streffling Farms, Stephenson (1983, 1982); Nick Thoney, Daggett (1981)

County Extension Director: Richard A. Breyer, Stephenson

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

Table 25

Index for 338 hybrids entered as 1,829 entries in the 1983 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, OH 43537
Andersons PSX93 (2X) (1,6,7,8,9,10
11,12,13,14,15,16,17,19,20)
Andersons PSX98 (2X) (16)
Andersons PSX105 (2X) (1,2,3,4,5,6
7,8,9,10,11,12,13,14,15,16,17)
Asgrow Seed Co., Kalamazoo, MI 49001
Asgrow RX418 (2X) (11,12,13)
Asgrow RX420 (2X) (11,12,13)
Asgrow RX511 (2X) (13)
Asgrow RX532 (2X) (4,5,6,9,10,11,
12,13.)

B

Beck's Hybrids, Atlanta, IN 46031
Beck's 40X (2X) (2,5)
Beck's 45X (2X) (4,5)
Beck's 49X (2X) (1,2,3,5,6)
Bo-Jac Hybrid Corn Co., Mt. Pleasant,
IL 62348
Bo-Jac 14 (2X) (2,6)
Bo-Jac 214 (2X) (4)
Bo-Jac 381 (2X) (1,2,3,4)
Bo-Jac 432 (2X) (1,3,5,6)
Bo-Jac 452 (2X) (5)

C

Callahan Seeds, Westfield, IN 46074
Callahan C728 (2X) (5,9,10)
Callahan C738 (2X) (5,9,10)
Callahan C744 (2X) (5,9,10)
Callahan C755 (2X) (5,9,10)
Cargill, Inc., Minneapolis, MN 55440
Cargill 818 (2X) (9,10,14,15)
Cargill 834 (2X) (14,15)
Cargill 836 (2X) (2,3,4,5,9,10)
Cargill 861 (2X) (1,2,3,4,5,9,10,
14,15)
Crow's Hybrid Corn Co., Milford,
IL 60953
Crow's 198 (2X) (2)
Crow's 199 (2X) (1,2,4,5)

Custom Farm Seed, Momence, IL 60954
CFS 1450 (2X) (4,7,8)
CFS W1450 (2X) (5)
CFS 2004 (2X) (11,12)
CFS W3003 (2X) (11,12)
CFS 3601 (2X) (11,12)
CFS 3601 (2X) (11,12)
CFS W3610 (2X) (7,8)
CFS 4003 (2X) (8)

D

Dairyland Seed Co., West Bend,
WI 53095
Dairyland DX1003 (2X) (6,7,8,9,10,
11,12,13,14,15,16,17,20)
Dairyland DX1006 (2X) (1,2,3,4,5,
6,7,8,9,10,11,12,13,14,15,16,17
18)
Dairyland DX1007 (2X) (1,2,3,4,5,8

9,10)
Dairyland DX1008 (2X) (1,3,4,5,7,9
10)
Dairyland DX1012 (2X) (1,2,3,4)
Dairyland DX1016 (2X) (2)
Dairyland DX1017 (2X) (1,2,3,4,5)
Dairyland DX1085 (2X) (14,15)
Dairyland DX1088 (2X) (8,11,12,14,
15,16,20)

Dekalb-Pfizer Genetics, Dekalb,
IL 60115

Dekalb-Pfizer XL-6 (2X) (23,24)
Dekalb-Pfizer XL-8 (2X) (17,18,19,
20,21,22,23,24)
Dekalb-Pfizer XL-25A (2X) (6,7,8,9
10,11,12,13,14,15,16)
Dekalb-Pfizer XL-32A (2X) (1,2,4,5
7,8,14,15)
Dekalb-Pfizer XL-55A (2X) (1,2,3,4
5,6,7,8,9,10)
Dekalb-Pfizer DK-484 (2X) (1,2,3,4
5,6,7,8,9,10,11,12,13,14,15,16,
17,18)
Dekalb-Pfizer DK-556 (2X) (1,2,5)

Farmers Corn & Chemical Co., Jerome,
MI 49249
Farmers FCC224A (Sp.) (1,3,5,9,10,
13)

Funk Seeds International,
Bloomington, IL 61701

Funk 0008X (MSX) (14,15,16,17,18,
19,20,21,22,23,24)
Funk 2008X (MSX) (7,8,9,10,11,12,
13,14,15,16,17,18,23,24)
Funk G-4065 (MSX) (20,21,22,23,24)
Funk G-4081 (MSX) (14,15,16,18,19,
20,21,22,23,24)
Funk G-4085 (3X) (16,18,19,20,21,
22,23,24)
Funk G-4141A (MSX) (16,23,24)
Funk G-422A (MSX) (18)

Edward J. Funk & Sons, Inc., Kentland
IN 47951

Super Crost 1542 (2X) (11,12,13,
14,15,16,17,18)
Super Crost 1621 (2X) (16,18)
Super Crost 1940 (2X) (9,10,11,12,
13,14,15,16,17,18)
Super Crost 1950 (2X) (11,12)
Super Crost 2396 (2X) (7,8,17)
Super Crost 2406 (2X) (1)

Garno Seed Co., Palmyra, MI 49268
Garno S-90 (2X) (11,12,13,14,15,16
17,18,21,22,23,24)
Garno S-100 (2X) (7,8,9,10)

Great Lakes Hybrids, Inc.,
Ovid, MI 48866

Great Lakes GL-192 (MSX)
(19,21,22)
Great Lakes GL-283 (3X) (20)
Great Lakes GL-344 (2X) (21,22)
Great Lakes GL-381 (2X) (11,12,14,
15,17,18)
Great Lakes GL-422 (2X) (4,7,9,10,
11,12,14,15,16,17,18,19,21,22)
Great Lakes GL-466 (2X) (2,4,6,7,
8,9,10,11,12,13,14,15,16,17,18)

Dairyland DX1096 (2X) (7,8,11,12,14
15,17)
Dairyland DX1099 (2X) (11,12)
Dairyland DX1105 (2X) (1,2,3,4,5,6,
7,8,11,12,13,16)
Dairyland Exp. 82-109 (2X) (1,3,4)
Dairyland Exp. 11201 (2X) (1,3)

Dekalb-Pfizer T891 (3X) (17,18,19,20,
23,24)
Dekalb-Pfizer T950 (2X) (1,2,4,5,6,7
8,9,10,11,12,13,14,15,17)
Dekalb-Pfizer T1000 (2X) (1,2,3,4,5,
6,7,8,9,10,11,12,13,14,15,16,17,
18)
Dekalb-Pfizer T1100 (2X) (1,2,3,4,5,
6,8)
Dekalb-Pfizer EX-2120 (2X) (2,9,10,
11,12,13,14,15,16,17,18)
Dekalb-Pfizer EX-2929 (2X) (2,3,4)

Farmers FCC251 (Sp.) (1,3,5,9,10,13)

Funk G-4256 (3X) (6,7,9,10,11,12,14,
15,16,18,23,24)
Funk G-4315 (MSX) (9,10,13,14,15,16)
Funk G-4323 (MSX) (1,2,3,4,5,7,8,9,
10,11,12,13)
Funk G-4342 (2X) (1,2,3,4,5,6,7,8,9,
10,11,12,13,14,15,17)
Funk G-4435 (MSX) (1,5)
Funk G-4438 (2X) (1,2,3,4,5,9,10,13)
Funk 29097 (2X) (7,8,9,10,11,12,13,
14,15,16,17,18,23,24)

Super Crost 2410 (2X) (7,8,9,10,11,
12,13,14,15,16)
Super Crost 2790 (2X) (1,2,5)
Super Crost 3030 (2X) (1,4,5)
Super Crost 4337 (2X) (1,2,3,4,5,9,
10)
Super Crost 5438 (2X) (2,3,4,13,14,
15)

Garno S-102 (2X) (1,2,3,4,5)

Great Lakes GL-522 (2X) (2,3,7,8,9,
10,13,14,15,17,18)
Great Lakes GL-547 (2X) (1,2,3,4,5,
7,8,9,10,11,12,13,14,15)
Great Lakes GL-552 (2X) (2,4,5,7,8)
Great Lakes GL-579 (2X) (5,8,14,15)
Great Lakes 5922 (2X) (1,2,3,4,5,6,7,
8,9,10,11,12,13,14,15)
Great Lakes GL-592 (2X) (1,4,5,14,15)
Great Lakes 81237 (2X) (11,12,17,19)

(continued)

Great Lakes GL-477 (2X) (9,10,14,15)
Great Lakes GL-487 (2X) (2,3,7,8,11,12,13,14,15,16)
Great Lakes GL-516 (2X) (2,3,5,6,9,10,14,15,16)

Gries Seed Farms, Inc.,

Fremont, OH 43420
Gries GSF-215 (2X) (7,9,10,13)
Gries GSF-240 (2X) (9,10,13)

Jacques Seed Co., Prescott, WI 54021

Jacques JX21 (2X) (21,22)
Jacques JX32 (2X) (21,22)
Jacques JX47 (2X) (19,23,24)
Jacques JX55 (2X) (21,22)
Jacques JX77 (2X) (13,16)
Jacques JX97 (2X) (7,11,12,14,15,16,17,18)

Jung Farms, Inc., Randolph, WI 53956

Jung 2250 (2X) (23,24)
Jung 2350 (2X) (23,24)

Kaltenberg Seed Farms, Waunakee, WI 53597

Kaltenberg KX51 (2X) (11,12)
Kaltenberg KX55 (2X) (11,12,13)

King Grain (U.S.A.), Inc., Chatham Ontario, Canada

King K141 (3X) (20)
King K1107 (MSX) (23,24)
King K1113 (2X) (21,22)
King K1122 (2X) (20,21,22)
King K1163 (2X) (14,15,18,19)
King K1173 (2X) (14,15,16,18,19,20,21,22)
King K2203 (2X) (7,9,10,11,12,14,15,16,18,19,21,22)
King K2204 (2X) (7,9,10,11,12,14,15,16,18,19)

Land O'Lakes, Minneapolis, MN

Land O'Lakes LOL188 (2X) (23,24)
Land O'Lakes LOL390 (3X) (23,24)

Leader Seeds, Inc., Celina, OH 45822

Leader SX490 (2X) (3,4)
Leader SX495 (2X) (1,2,3,4,5)
Leader SX510 (2X) (1,2,3)

Lowe Seed Co., Kankakee, IL 60901

Lowe LSX117 (2X) (1,2,4,5,9,10,13,14,15)
Lowe LSX217 (2X) (1,2,4,5,9,10,14,15)
Lowe LSX222 (2X) (1,2,5,9,10)

Lynds Seeds, Marshalltown, IA 50158

Lynds LX4075 (2X) (6)
Lynds LX4100 (2X) (4,6)
Lynds LX4115 (2X) (3,4,5)

McKenzie Seed Farm, Breckenridge, MI 48615

McKenzie 411 (2X) (9,10,16,17)

MFI Seeds, Mendon, WI 49072

MFI 1492 (2X) (2,3,4,5,9,10,17)
MFI 1776 (2X) (2,5,9,10,17)
MFI 1812 (2X) (1,2,3,4,5,9,10,17)

MFI 1833 (2X) (1,2,3,4)

Michigan Hybrid Seed Co., Inc., Mason, MI 48854

Wolverine W126 (2X) (8,11,12)
Wolverine W155 (2X) (8,11,12,13)
Wolverine W166 (2X) (7,9,10,13,14,15,17)

Northrup King Co., Shelbyville, IN 46176

Northrup King PK39 (2X) (2,3,4,9,10)
Northrup King PK9055 (2X) (19)
Northrup King PK9144 (2X) (19,20)
Northrup King PK9288 (2X) (11,12,13,14,15)
Northrup King PK9301 (2X) (11,12,13,14,15,19,20)
Northrup King PK9353 (2X) (7,9,10,11,12,13,14,15)
Northrup King PK9405 (2X) (2,3,4,7,9,10)
Northrup King PK9415 (2X) (2,3,4,7,9,10)
Northrup King PK9455 (2X) (2,3,4)

O's Gold Seed Co., Parkersburg, IA 50665

O's Gold 1170A (2X) (1,2,4,5,7,9,10,13,20)
O's Gold 2310 (2X) (16,20)
O's Gold 2321 (2X) (11,12)
O's Gold 2330 (2X) (11,12,14,15)
O's Gold 2450 (2X) (3)
O's Gold 2570 (2X) (9,10)
O's Gold 6880 (2X) (7,13,18)
O's Gold 6882 (2X) (1,2,3,4,5,8,9,10)

P-A-G Seeds, Aurora, IL 60507

P-A-G SX111 (2X) (11,12,19,21,22)
P-A-G SX155 (2X) (11,12,13,14,15,16,17,19,21,22)
P-A-G SX177 (2X) (11,12)
P-A-G SX179 (2X) (8,11,12,13,14,15,16,19,21,22)
P-A-G SX181 (2X) (13,14,15,16,18)
P-A-G SX193 (2X) (2,6,7,8,9,10,14,15,17)
P-A-G SX195 (2X) (5,8,13,18)
P-A-G SX239 (2X) (2,3,4,5,6,7,8,9,10,13,17,18)
P-A-G SX243 (2X) (3,6,7,9,10)
P-A-G SX275 (2X) (2,3,4,5,9,10)
P-A-G SX397 (2X) (3)
P-A-G Exp. 11571 (2X) (2,4,5,17)

Roy W. Parker & Son, Inc., Kimmell, IN 46760

Parker 29 (2X) (2)
Parker 32 (2X) (5)
Parker 52 (2X) (3)
Parker 60A (2X) (5)
Parker 190 (2X) (3)

Payco Seeds, Inc., Dassel, MN 55325

Payco SX431 (2X) (11,12,13,14,15,16,17,18)
Payco SX599 (2X) (6,7,8,9,10,11,12,13,14,15,16,17,18)
Payco SX620 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
Payco SX715 (2X) (1,3,4,5,6,13,14,15)
Payco SX722 (2X) (1,3,4,5,6)
Payco SX788 (2X) (13,14,15)

Paymaster Seeds, Aurora, IL 60507

Paymaster 1990 (2X) (14,15)
Paymaster 2990 (2X) (4,9,10)

Pioneer Hi-Bred International, Inc. Tipton, IN 46072

Pioneer 3572 (2X) (1,2,3,4,5)
Pioneer 3707 (2X) (1,2,3,4,5,6,9,10)
Pioneer 3744 (2X) (1,2,3,4,5,7,8,9,10,11,12,13,14,15,17,18)
Pioneer 3747 (2X) (1,2,3,4,5,9,10,11,12,13,14,15,16,17,18)
Pioneer 3780 (2X) (6,7,16)
Pioneer 3851 (Sp.) (21,22)
Pioneer 3901 (2X) (11,12,13,14,15,16,17,18,19,20,21,22,23,24)
Pioneer 3906 (2X) (19,20,21,22,23,24)
Pioneer 3930 (2X) (19,20,21,22,23,24)
Pioneer 3947 (2X) (23,24)
Pioneer 3950 (Sp.) (19)
Pioneer X7064 (2X) (11,12,13,14,15,16,17,18)

Prairie Stream Hybrids, Frankfort,

Frankfort, KY 40601

Renk RK60	(2X)	(3, 9, 10, 11, 12, 13)
Renk RK66	(2X)	(3, 9, 10, 11, 12, 13)
Renk RK75	(2X)	(3, 9, 10, 13)
Renk RK76	(2X)	(3, 9, 10)

Rupp XR1690 (2X) (1,2,3,5,6,9,10,11,
12,13,14,15)
Rupp XR1780 (2X) (1,2,3,5,6,11,12,14,
15)
Rupp Exp. 2-165 (2X) (2,3,7,9,10,11,
12,13,16)
Rupp Exp. 3-209 (2X) (2,7,9,10,13,16)

Select 4600	(2X)	(4)
Select 4700	(2X)	(1,3,5)
Select 4800	(2X)	(1,3,5)
Select 5188	(2X)	(1,5)

Sohigro S35 (2X) (14, 15)
Sohigro S39 (2X) (14, 15)

Golden Harvest EX586 (2X) (4,5)
Golden Harvest H-2300 (3X) (5,6,7,
8,9,10,11,12,13,14,15,18,20,21,
22)
Golden Harvest H-2374 (3X) (20,21,
22)
Golden Harvest H-2380 (2X) (4,6,
14,15,16,17)
Golden Harvest H-2440 (2X) (3,4,5,
6,7,9,10)

Stanton Seed & Supply Co., Inc.,
Stanton, MI 48888

Stanton SX1095 (2X) (7,8,9,10,11,12,
13,14,15,16,17)
Stanton SX10100 (2X) (7,8,9,10,11,12,
13,14,15,16,17)

Stauffer Seeds S4402 (2X) (4,7,9,10,
11,12,14,15)
Stauffer Seeds S4880 (?) (4,11,12,
14,15)
Stauffer Seeds S5260 (2X) (14,15,17)
Stauffer Seeds S5340 (2X) (1,2,3,4,5,
7,9,10,17)
Stauffer Seeds S5650 (2X) (1,2,3,4,5,
7,9,10,11,12,13,14,15,17)

Voris V2451 (2X) (3,4,5,6,9,10,11,
12,13)
Vorix V2472 (2X) (1,5,13)
Vorix V2491 (2X) (1,3,5,9,10)

V

Worris Seeds, Inc., Windfall, IN 46076
 Voris EX1160 (2X) (1,3,4,9,10)
 Voris V2331 (2X) (3,9,10,11,12,13)
 Voris V2381 (2X) (6,11,12)
 Voris V2411 (2X) (1,11,12)

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