



Extension Bulletin E-431 (Revision)  
 Cooperative Extension Service  
 Michigan State University  
 January 1986

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Michigan Corn Production

# HYBRIDS COMPARED

## 1986



Corn Maturity Zones and Locations (★) of Trials

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**H**ybrid 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. By planting the best hybrids, farmers can obtain higher yields and other improvements 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 1985 trials produced 31 bushels more corn per acre than the average of the 418 hybrids tested (Table A). At the 21 testing locations, the yields were 163 bushels for the highest, 132 bushels for the average and 104 bushels for the lowest yielding hybrids. The driest hybrids at harvest contained 5 percent less moisture than the average and 10 percent less moisture than the wettest hybrids tested. Stalk breakage averaged 9 percent for hybrids with the highest amount of stalk lodging, 2 percent for the average and 0.1 percent for the lowest.

## Entries

All seed companies are invited to enter hybrids in the trials each year. A fee is charged to cover some of the direct expenses.

Table 28 presents an index of all hybrids entered in the 1985 trials. At the 21 locations, 418 hybrids were tested as 2,219 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 28.

## Methods

Scientific methods are used to conduct 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 companies submitted seed for all entries. 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 biased results. 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 trials of Ingham, Sanilac, Huron, Missaukee, Alpena, Menominee and Alger counties (Tables 11, 14, 17, 22, 24, 26 and 27). 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 19). There were two locations in Cass County — upland soil with irrigation (Table 6) and muck soil (Table 7). Trials in Hillsdale and Mason counties (Tables 2 and 20) were also irrigated.

## Growing Conditions

All planting was completed between April 26 and May 22. Favorable weather during planting resulted in good stands and rapid emergence. Early plant development was two weeks ahead of normal. Rapid growth continued until early August when moisture stress slowed development

to below normal. The crop was 55 percent silked by July 28, slightly ahead of normal.

Soil moisture supplies became short during late July and most of August. Scattered rains during mid-August with heavy rains in late August and early September relieved most of the moisture stress. Crop development had fallen behind normal during the stress period. Corn was 40 percent dented by September 8 compared to 60 percent in 1984 and 63 percent for the 5-year average.

Plant height was generally shorter than normal, but late rains helped grain development and yields were higher than expected. Maturity and dry down were slower than normal.

A premature killing frost occurred in late September at the Cass County muck soil plots, which caused some reduction in yield. An early killing frost at the Alger County location in the Upper Peninsula made harvest for grain impractical. Silage yields are reported in Table 27.

Rain and wet fields during October and November slowed harvest. Harvest of overstate research plots was completed between October 17 and November 7.

Total corn acreage was 3,100,000 with 2,700,000 acres harvested for grain and 400,000 acres for silage. The Michigan Crop Reporting Service estimates a state average yield of 102 bushels per acre, second highest on record for Michigan. The previous high was 107 in 1982 and compares with 84 in 1984 and 92 in 1983. Total grain production is estimated at 275,400,000 bushels.

## Plant Population Trials

Five adapted hybrids at 4 plant populations (16,400 to 28,200 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 24,400 average harvest population produced significantly higher yields at 10 of the 17 locations, averaging 160 to 202 bushels per acre. These increases were 16, 14, 14, 15, 9, 6, 9, 12, 11 and 8 bushels per acre above yields at 20,500 population. Four of these 10 locations were irrigated. Yields decreased (5 to 13 bushels) at 7 locations when harvest populations increased from 20,500 to 24,400.

Average yields were 136, 149, 153 and 143 bushels per acre for the 4 populations averaged for all locations. Moisture content of grain averaged 1 to 2 percent higher for the highest population. There was a trend toward increased stalk lodging as plant population increased.

## No-Till Trials

Hybrid corn trials were conducted with a no-till production system at two locations — Kellogg Biological Station (KBS) in Kalamazoo County and Michigan State University (MSU) in Ingham County (Tables 5 and 12). Cooperators were Drs. Oran B. Hesterman and Francis J. Pierce of the Department of Crop and Soil Sciences. These trials were not part of the open-entry, fee-assessed trials represented in this report. Selection of hybrids was made by E. C. Rossman.

Eighteen hybrids were grown without irrigation in a comparison of no-till vs. conventional tillage at MSU. Yields for no-till corn were significantly lower than those for conventional tillage (moldboard plow). Yields listed in Table 12 are from no-till plots.

Fifteen hybrids, planted no-till and conventional tillage, irrigated and non-irrigated were evaluated at KBS. Yields for the two tillage systems and irrigation were not significantly different. Yields listed in Table 5 are averages for irrigated and non-irrigated no-till.

## How To Use This Bulletin

One-, two- and three-year averages are presented for all hybrids tested during 1985, 1984 and 1983. 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 years' results or more are more desirable than one year's.

The tables show the following about the hybrids tested:

1. Average moisture content at harvest.
2. Average yield (in bushels) of shelled corn at 15.5 percent 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 variables, 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. Hybrids exceeding this yield are starred. There are some statistically significant differences among hybrids significantly better than average yield in 1985.

Agronomic information for each trial is given at the bottom of each table. Fertilizer amounts are total pounds per acre of nitrogen, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O 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. The map shows 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 that gives results for the trials conducted nearest you. Also, refer to the other tables listed in your zone. A hybrid that 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 in yield, and frequently a decrease, 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 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:

- They usually mature before killing frosts.
- Good-yielding early hybrids generally yield as much or more than late hybrids in most areas in Michigan.
- Early hybrids with lower moisture content at harvest reduce drying costs and market discounts for moisture.
- Mature, dry corn makes better livestock feed.
- 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.
- 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 reason 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 that is to be followed by a winter grain or cover crop.

You can obtain some degree of "crop insurance" by choosing two or three hybrids that differ slightly in their maturity. If one hybrid runs into unfavorable weather at a critical stage of growth, another may be less affected and produce a good crop.

Even though you have been growing a hybrid that 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.

### Ways To Reduce Stalk Lodging

Several stalk-rotting fungi may cause broken stalks at harvest and create a major problem in corn production. Stalk rot occurs when 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 and 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, choose high yielding, early maturing hybrids, plant early and harvest early.

### Ways To Avoid Moldy Corn In 1986

Use the following recommendations to help prevent moldy corn in 1986:

- Plant early.
- Plant early to medium-early maturing hybrids.
- Harvest early — during October. Weather problems and harvest losses increase with later harvest.
- 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, prevent high harvest loss and produce greater corn profits.

### Seed Supplies For 1986

Production of hybrid seed corn in 1985 was good to very good. Seed supplies of most hybrids should be adequate for 1986 planting.

TABLE A

AVERAGE, HIGHEST AND LOWEST MOISTURE CONTENT  
GRAIN YIELD, AND STALK LODGING AT 21 LOCATIONS  
IN 1985

LOCATION-COUNTY	NO. OF HYBRIDS	BUSHELS PER ACRE				% MOISTURE				% STALK LODGING			
		AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST			
MONROE	130	166	199	141	24	30	20	2	12	0			
HILLSDALE-IRRIGATED	107	148	192	120	22	28	17	2	6	0			
BRANCH	116	170	208	142	21	25	18	2	10	0			
KALAMAZOO	100	105	138	81	27	32	22	1	8	0			
KALAMAZOO-NO TILL	15	161	187	139	24	29	21	6	14	1			
CASS-UPLAND IRRIGATED	116	178	220	145	23	28	19	2	10	0			
CASS-MUCK SOIL	59	111	141	90	23	29	20	2	6	0			
KENT	99	102	119	78	22	27	19	1	4	0			
OTTAWA	74	102	137	70	23	28	20	4	22	0			
INGHAM	126	149	176	111	24	32	19	1	6	0			
INGHAM-NO TILL	18	117	144	93	34	36	27	--	--	0			
SANTILAC	106	139	172	111	24	31	19	1	9	0			
SAGINAW	135	133	133	84	23	27	20	1	5	0			
HURON	128	145	172	102	24	31	20	1	10	0			
ISABELLA	70	99	129	74	24	29	19	2	8	0			
MONTCALM-IRRIGATED	76	175	213	142	23	30	20	2	18	0			
MONTCALM-NOT IRRIGATED	76	158	184	126	23	30	20	1	6	0			
MASON-IRRIGATED	43	143	172	116	24	27	21	3	9	0			
GRAND TRAVERSE	36	96	123	78	27	32	22	3	6	0			
ALPENA	53	88	110	68	33	39	26	3	12	0			
MENOMINEE	40	121	144	79	30	39	17	4	7	1			
AVERAGE		132	163	104	25	30	20	2	9	0.1			

TABLE B

AVERAGE GRAIN YIELD, % MOISTURE AND % STALK LODGING AT FOUR  
HARVEST PLANT POPULATIONS FOR 17 LOCATIONS IN 1985

LOCATION-COUNTY	BUSHELS PER ACRE				% MOISTURE IN GRAIN				% STALK LODGING			
	16,400	20,500	24,400	28,200	16,400	20,500	24,400	28,200	16,400	20,500	24,400	28,200
MONROE	151	170	186	174	24	24	25	26	1	1	3	4
HILLSDALE-IRRIGATED	149	166	180	165	23	24	23	25	2	2	4	6
BRANCH	165	182	196	188	22	21	24	24	0	3	5	5
KALAMAZOO	119	131	118	110	27	27	29	29	1	1	2	4
CASS-UPLAND IRRIGATED	161	187	202	191	24	25	25	26	1	3	5	7
CASS-MUCK SOIL	123	132	127	118	25	25	26	25	0	2	6	6
KENT	98	109	101	92	23	23	24	24	0	4	4	4
OTTAWA	112	126	121	112	24	23	23	24	3	7	7	10
INGHAM	144	157	168	154	26	26	27	28	0	1	3	7
SANTILAC	140	155	161	152	25	27	25	26	1	2	3	6
SAGINAW	117	126	119	114	23	23	23	25	0	1	4	8
HURON	139	151	160	149	23	24	24	24	0	2	7	10
ISABELLA	117	121	115	101	25	24	25	25	1	1	3	5
MONTCALM-IRRIGATED	171	186	198	190	24	26	26	26	1	2	4	6
MONTCALM-NOT IRRIGATED	149	161	172	162	23	24	25	25	0	2	4	7
MASON-IRRIGATED	141	154	162	157	23	23	24	24	2	4	3	8
GRAND TRAVERSE	111	116	109	98	26	27	27	28	2	3	5	10
AVERAGE	136	149	153	143	24	25	25	26	1	2	4	7

TABLE 01

SOUTHERN MICHIGAN  
Monroe County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
CARGILL 842	19.5	--	--	160.1	--	--	7.7	--	--
PAYCO SX620	19.5	22	21	145.5	137	125	6.0	6	7
CARGILL 861	20.0	24	23	141.0	139	129	11.9	8	8
NORTH COAST 2050	20.1	22	--	149.6	139	--	6.2	6	--
CROW'S 199	20.4	23	22	161.6	149	143	4.6	4	4
CROW'S 181	20.4	--	--	163.6	--	--	2.8	--	--
STAUFFER SEEDS S5260	20.5	24	--	172.2	157	--	1.4	3	--
PIONEER 3737	20.6	24	--	162.4	159	--	2.8	4	--
GREAT LAKES GL-547	20.8	25	24	177.6	164	153	3.4	3	4
MF1-1776	20.8	--	--	146.7	--	--	2.1	--	--
ANDERSONS PSX-110	21.0	25	--	156.5	143	--	0.0	2	--
BETASEED KH391	21.2	--	--	143.6	--	--	0.7	--	--
DEKALB-PFIZER DK484	21.4	24	22	170.4	156	139	2.7	4	5
ANDERSONS PSX-100	21.4	24	--	142.6	131	--	2.2	4	--
*GLENN & GARNO GX1023	21.6	--	--	183.2	--	--	4.1	--	--
STAUFFER SEEDS S5750	21.8	25	--	161.1	144	--	3.5	3	--
RUPP XR1690	21.9	25	24	146.2	148	140	5.4	4	4
RUPP XR1602	21.9	--	--	160.4	--	--	1.4	--	--
BECK'S 60X	21.9	26	25	162.6	148	149	7.0	4	4
LEADER SX488	22.0	--	--	140.6	--	--	2.1	--	--
PIONEER 3707	22.0	24	23	164.2	153	147	0.7	1	1
PIONEER 3475	22.0	--	--	153.6	--	--	0.7	--	--
*NORTH COAST 2320	22.1	26	--	186.2	161	--	6.8	5	--
CROW'S 444	22.1	26	--	177.0	150	--	2.9	3	--
ANDERSONS PSX-105	22.4	25	24	171.1	147	149	0.7	1	2
LEADER SX510A	22.6	--	--	151.9	--	--	0.7	--	--
GREAT LAKES GL-540	22.6	--	--	150.0	--	--	6.9	--	--
PRO-SEED LG22	22.6	24	--	144.6	138	--	2.8	3	--
CARGILL 889	22.6	25	--	167.4	162	--	6.3	4	--
FARMERS FCC224A	22.6	26	24	161.7	143	139	5.1	3	5
FUNK G-4312	22.7	--	--	178.8	--	--	1.5	--	--
PAYMASTER 4790	22.7	--	--	178.6	--	--	3.5	--	--
KING K4474	22.7	25	23	142.8	138	140	4.6	6	5
FARMERS FCC251	22.7	25	24	152.4	141	139	5.8	4	6
DEKALB-PFIZER DK562	22.8	--	--	142.9	--	--	1.5	--	--
P-A-G SX267	22.8	--	--	142.3	--	--	4.3	--	--
PRO-SEED HL2830	22.8	--	--	141.1	--	--	0.7	--	--
*GREAT LAKES GL-579	22.9	26	--	182.2	158	--	0.7	2	--
CROW'S 212	22.9	--	--	153.0	--	--	1.4	--	--
RENK RK60	23.1	26	--	172.6	157	--	0.0	1	--
PIONEER 3744	23.2	--	--	161.7	--	--	5.9	--	--
PAYMASTER 2990	23.2	25	--	176.6	162	--	2.8	3	--
*SELECT 4701	23.2	--	--	181.6	--	--	2.0	--	--
*RUPP XR1707	23.2	26	--	185.2	147	--	1.5	3	--
RUPP XR1639	23.2	26	25	141.0	137	137	0.8	2	3
NORTH COAST 2100	23.3	25	--	148.3	133	--	0.0	3	--
RENK RK66	23.3	25	--	147.6	142	--	1.4	4	--
PICKSEED 14-102	23.3	--	--	144.6	--	--	0.7	--	--
CALLAHAN C747	23.3	--	--	179.1	--	--	0.7	--	--
FUNK G-4326	23.4	--	--	169.4	--	--	2.3	--	--

TABLE 01 (CONTINUED)

SOUTHERN MICHIGAN  
Monroe County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
MF1-1900	26.2	29	28	155.7	149	141	0.0	1	1
*DEKALB-PFIZER T1100	26.3	29	27	190.9	158	150	1.4	3	2
STAUFFER SEEDS S5650	26.4	27	25	157.2	147	142	0.8	1	2
BO-JAC 603	26.6	28	--	174.7	152	--	0.8	1	--
SELECT 4905	26.8	--	--	169.9	--	--	6.2	--	--
STAUFFER SEEDS S7759	27.0	30	--	161.1	141	--	0.0	1	--
*PRO-SEED HL2823	27.0	--	--	186.3	--	--	2.1	--	--
CARGILL 893	27.1	--	--	161.5	--	--	0.7	--	--
DAIRYLAND DX1017	27.2	29	27	167.8	147	149	2.2	2	1
RUPP XR1829	27.2	--	--	158.6	--	--	0.0	--	--
*RENK RK76	27.3	29	--	191.2	152	--	0.7	2	--
*PRIDE 7705	27.4	--	--	181.9	--	--	2.1	--	--
GOLDEN HARVEST H-2604	27.5	--	--	159.7	--	--	1.5	--	--
*LEADER LSX575	27.6	29	27	192.9	156	155	4.2	4	4
ASGROW/O'S GOLD RX788	27.9	--	--	153.9	--	--	0.9	--	--
*SELECT 5188	27.9	--	--	192.0	--	--	0.0	--	--
BO-JAC 391	28.0	--	--	158.1	--	--	0.8	--	--
*RUPP XR1780	28.0	29	27	180.9	163	155	1.4	2	4
*SOHIGRO S-48	28.0	--	--	188.5	--	--	0.0	--	--
VORIS V2491	28.2	29	28	172.1	163	152	1.5	3	3
MCCURDY 7384	28.3	--	--	175.4	--	--	3.6	--	--
DAIRYLAND DST11007	28.5	--	--	145.1	--	--	2.7	--	--
ASGROW/O'S GOLD 2545	28.8	28	--	175.7	156	--	2.2	1	--
*FUNK G-4514	29.0	30	--	181.2	165	--	2.3	2	--
ASGROW/O'S GOLD XP7975	29.5	--	--	149.7	--	--	1.5	--	--
AVERAGE	24.2	26	25	166.4	151	145	2.4	3	3
RANGE	19.5	22	21	140.6	131	125	0.0	1	1
	29.5	30	28	198.8	173	168	11.9	8	8
LEAST SIGNIFICANT DIFFERENCE	1.7	1.1	0.7	14.2	8	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	May 5	May 11	May 27
HARVESTED	October 26	November 7	October 19
SOIL TYPE	Brookston loam	Griffin sandy loam	Griffin sandy loam
PREVIOUS CROP	wheat/cloversod	Corn	Wheat
POPULATION	22,100	21,500	21,700
ROWS	30"	30"	30"
FERTILIZER	220-72-240	176-104-160	168-104-164
SOIL TEST: pH	6.3	6.2	6.9
P	218(very high)	164(very high)	295(very high)
K	435(very high)	424(very high)	295(high)

FARM COOPERATOR: Gerald Heath, Milan(1985); Orville Montri, La Salle (1984,1983)

COUNTY AGRICULTURAL AGENT: Paul Marks, Monroe







BO-JAC 601	25.8	28	--	160.2	165	--	2.9	1	--
*DAIRYLAND DX1015	25.9	--	--	171.3	--	--	5.3	--	--
PRIDE 6692	26.1	29	--	130.2	143	--	2.3	3	--
DAIRYLAND DX1017	26.5	29	28	148.0	141	134	0.7	1	1
*ASGROW/O'S GOLD XP7875	26.8	--	--	183.6	--	--	0.0	--	--
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*SUPER CROST 5438	27.6	29	28	184.9	179	166	0.8	1	1
DAIRYLAND DST1107	27.7	--	--	132.3	--	--	1.6	--	--
<hr/>									
AVERAGE	22.1	25	24	147.7	149	142	1.8	2	2
<hr/>									
RANGE	17.2	20	20	120.1	115	125	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.7	29	28	191.9	179	166	5.7	6	4
<hr/>									
LEAST SIGNIFICANT DIFFERENCE	1.8	1.2	0.7	15.0	10	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	April 30	May 10	May 18
HARVESTED	October 25	October 17	October 19
SOIL TYPE	Hillsdale-Riddles sandy loam	Hillsdale-Riddles sandy loam	Sibawa-Matherton loam
PREVIOUS CROP	Corn	Soybeans	Corn
POPULATION	21,900	21,200	21,700
ROWS	30"	30"	30"
FERTILIZER	237-52-52	162-52-262	195-100-103
SOIL TEST: pH	6.8	6.6	6.1
	P 259(very high)	240(very high)	66(medium high)
	K 409(very high)	295(high)	227(high)
IRRIGATION	4.5 inches	11 inches	

FARM COOPERATOR: Richard Godfrey, Jonesville (1985,1984);  
Don and Ed Marshall, Litchfield (1983)

EXTENSION FIELD CROPS AGENT: Natalie Rector, Marshall

COUNTY EXTENSION DIRECTOR: Jim Pelham, Hillsdale

KING K5574	20.8	--	--	165.7	--	--	2.4	--	--
PAYCO SX710	20.8	--	--	165.1	--	--	1.3	--	--
*PIONEER 3475	20.9	--	--	186.0	--	--	2.1	--	--
*FUNK RA1404	21.0	--	--	194.7	--	--	1.4	--	--
FUNK G-4323	21.0	23	22	167.1	163	159	3.5	2	1
<hr/>									
GRIES X580	21.0	--	--	172.1	--	--	0.7	--	--
KING K4464	21.0	24	22	145.8	142	131	0.0	0	0
DAIRYLAND DX1008	21.0	24	22	160.7	153	147	2.7	1	2
DAIRYLAND DX1013	21.0	--	--	166.2	--	--	1.4	--	--
*SUPER CROST 2989	21.1	--	--	188.8	--	--	0.0	--	--
<hr/>									
*DAIRYLAND DX1107	21.1	24	--	205.2	174	--	3.5	2	--
RENK RK64	21.1	24	--	175.3	170	--	1.4	2	--
MFI-1834	21.1	--	--	172.5	--	--	3.5	--	--
P-A-G SX267	21.2	23	--	161.0	159	--	7.7	5	--
SELECT 4800	21.2	24	23	182.4	177	173	3.5	3	3
<hr/>									
CARGILL 893	21.2	--	--	157.4	--	--	2.9	--	--
*RENK RK60	21.2	23	22	188.2	171	165	1.4	1	1
*DEKALB-PFIZER T1100	21.2	25	24	186.9	173	165	5.1	3	3
CALLAHAN C754	21.2	--	--	160.1	--	--	0.7	--	--
*STAUFFER SEEDS S5340	21.3	24	23	185.5	180	171	0.0	2	1
<hr/>									
*GARNO S-100X	21.3	--	--	187.2	--	--	2.7	--	--
*GREAT LAKES GL-579	21.3	24	--	194.9	179	--	1.4	2	--
ASGROW/O'S GOLD RX717	21.3	--	--	181.2	--	--	1.4	--	--
CUSTOM CFS EW95013	21.3	--	--	168.3	--	--	2.9	--	--
CUSTOM CFS 6203	21.3	--	--	177.7	--	--	2.1	--	--
<hr/>									
ANDERSONS PSX-108	21.4	--	--	148.9	--	--	9.6	--	--
MFI-1984	21.4	25	--	180.0	170	--	2.1	1	--
PRO-SEED HL2803	21.5	23	--	181.2	169	--	2.9	3	--
*BECK'S 49X	21.5	25	24	193.0	165	160	0.0	2	2
STAUFFER SEEDS S5650	21.6	24	22	180.7	159	153	2.9	2	2
<hr/>									
JACQUES 5400	21.6	23	--	162.9	150	--	0.0	1	--
*NORTHRUP KING PX9527	21.7	--	--	201.2	--	--	2.7	--	--
JACQUES 7700	21.8	25	--	179.8	154	--	2.1	2	--
LEADER S510A	21.8	--	--	168.7	--	--	1.4	--	--
*RUPP XR1639	21.9	24	23	202.0	181	163	0.0	0	1
<hr/>									
*GLENN & GARNO GX1007	21.9	--	--	185.4	--	--	0.0	--	--
*P-A-G SX269	22.0	--	--	185.5	--	--	1.4	--	--
BECK'S 51X	22.0	24	--	169.8	161	--	1.4	1	--
GREAT LAKES 5922	22.0	25	24	183.8	176	170	1.4	1	1
*SELECT 3720	22.1	24	--	196.1	170	--	0.7	1	--
<hr/>									
*GOLDEN HARVEST H-2535	22.1	26	25	188.7	167	161	3.4	2	2
CALLAHAN C766	22.1	--	--	180.0	--	--	4.3	--	--
AGRIPRO HP470	22.2	25	--	182.6	166	--	3.5	3	--
RUPP XR1707	22.3	24	--	164.9	145	--	0.7	0	--
DAIRYLAND DX1012	22.4	25	24	184.8	170	162	1.5	1	1
<hr/>									
GOLDEN HARVEST EX530	22.4	--	--	162.6	--	--	2.8	--	--
*SUPER CROST 4304	22.5	25	--	207.7	191	--	5.7	4	--
LEADER SX575	22.5	26	--	175.2	167	--	2.9	3	--
BECK'S 61X	22.6	--	--	183.8	--	--	2.3	--	--
*PAYCO SX860	22.7	25	24	194.1	175	163	2.8	2	2
<hr/>									
PRIDE 6692	23.3	26	--	148.9	138	--	2.8	3	--
DAIRYLAND DX1015	23.3	--	--	176.9	--	--	0.0	--	--
*RENK RK76	23.3	26	25	192.2	170	161	2.1	2	2
*ASGROW/O'S GOLD RX6882	23.5	26	25	191.9	178	168	2.0	1	2
AGRIPRO AP510	23.8	--	--	180.4	--	--	0.0	--	--

TABLE 03 (CONTINUED)

SOUTHERN MICHIGAN  
Branch County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	2	3		2	3		2	3	
	1985	YR	YR	1985	YR	YR	1985	YR	YR
RUPP XR1829	23.8	--	--	163.4	--	--	0.0	--	--
*BO-JAC 603	23.9	27	--	186.8	177	--	0.7	1	--
BECK'S 63X	24.0	26	--	178.6	172	--	1.8	1	--
*NORTHROP KING PX9540	24.1	--	--	192.8	--	--	0.0	--	--
*SELECT 5040	24.2	26	--	194.2	176	--	0.7	1	--
DAIRYLAND DX1017	24.2	27	26	175.2	167	167	2.1	1	1
DAIRYLAND DST11007	24.2	--	--	144.2	--	--	5.9	--	--
GOLDEN HARVEST H-2572	24.3	25	--	178.5	162	--	3.6	3	--
*BECK'S 65X	24.9	27	26	195.0	179	170	0.7	0	1
*PRIDE 7705	25.1	--	--	188.1	--	--	2.1	--	--
*MFI-1877	25.1	--	--	190.6	--	--	3.4	--	--
AVERAGE	21.1	24	23	170.0	161	155	2.2	2	2
RANGE	17.9	20	20	142.3	135	131	0.0	0	0
	T0	T0	T0	T0	T0	T0	T0	T0	T0
	25.1	27	26	207.7	191	173	9.6	7	6
LEAST SIGNIFICANT DIFFERENCE	1.7	1.1	0.8	15.2	10	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	April 29	May 12	May 13
HARVESTED	October 24-25	October 18	October 18
SOIL TYPE	Gilford Sandy Loam	Gilford Sandy Loam	Gilford Sandy Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,100	21,700	21,400
ROWS	30"	30"	30"
FERTILIZER	209-74-0	174-83-0	175-64-0
SOIL TEST: pH	6.5	6.5	6.3
P	240(very high)	261(very high)	185(very high)
K	200(medium)	211(medium high)	227(high)

FARM COOPERATOR: David La Bar, Union City (1985,1984); George Matthews, Union City (1983)

COUNTY FIELD CROPS AGENT: Natalie Rector, Marshall

COUNTY EXTENSION DIRECTOR: Ray Fast, Coldwater

TABLE 04 (CONTINUED)

SOUTHERN MICHIGAN  
Kalamazoo County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	2	3		2	3		2	3	
	1985	YR	YR	1985	YR	YR	1985	YR	YR
AGRIPRO AP412	26.8	--	--	85.5	--	--	0.9	--	--
ANDERSONS PSX108	26.8	--	--	85.2	--	--	0.0	--	--
*GOLDEN HARVEST H-2465	26.8	27	--	137.7	101	--	1.4	5	--
SUPER CROST 2989	26.9	--	--	96.2	--	--	0.7	--	--
*GLENN & GARNO GX1007	26.9	--	--	126.5	--	--	2.3	--	--
CARGILL 874	27.0	--	--	87.4	--	--	0.7	--	--
RUPP XR1829	27.0	--	--	97.6	--	--	2.5	--	--
*NORTHROP KING PX39	27.1	28	27	128.2	104	104	2.9	2	2
*PIONEER 3475	27.1	--	--	138.2	--	--	0.0	--	--
DAIRYLAND DX1105	27.1	28	27	117.9	85	89	1.5	4	3
RUPP XR1690	27.1	29	--	105.0	100	--	1.4	5	--
VORIS V2451	27.2	28	27	94.0	89	91	1.5	2	2
MFI-1984	27.2	29	--	108.9	85	--	0.0	1	--
AGRIPRO AP510	27.3	--	--	99.8	--	--	1.4	--	--
KING K4484	27.3	--	--	118.5	--	--	1.4	--	--
SELECT 3300	27.3	28	26	105.5	98	99	0.0	3	3
*DAIRYLAND DX1107	27.3	28	--	130.7	98	--	1.5	2	--
ANDERSONS QSX105	27.4	--	--	116.0	--	--	0.7	--	--
CROW'S 444	27.6	28	27	102.5	87	94	0.7	2	2
*DAIRYLAND DX1015	27.8	--	--	130.8	--	--	0.7	--	--
JACQUES 7700	28.0	28	--	99.5	89	--	2.2	3	--
*DAIRYLAND DX1013	28.0	--	--	132.6	--	--	0.0	--	--
SELECT 4701	28.3	--	--	101.0	--	--	2.3	--	--
*SELECT 4144	28.6	--	--	121.4	--	--	0.0	--	--
GREAT LAKES 5922	28.6	29	27	118.4	98	106	0.7	2	1
*DAIRYLAND DX1017	29.0	29	29	121.0	107	115	1.4	1	2
RUPP XR1707	29.0	29	--	86.8	76	--	0.0	3	--
STAUFFER SEEDS S5650	29.1	28	27	81.1	70	77	2.2	4	4
*SELECT 5040	29.2	30	--	122.4	102	--	2.9	2	--
*DEKALB-PFIZER T1100	29.2	31	29	124.9	106	101	1.4	1	2
*SOHIGRO S-40	29.3	--	--	121.1	--	--	0.7	--	--
BECK'S 60X	29.5	29	28	93.7	74	90	3.0	3	5
ASGROW/O'S GOLD 6882	29.6	30	28	107.2	85	94	1.5	1	2
DAIRYLAND DX1012	29.7	30	30	92.6	78	86	0.7	2	4
RUPP XR1780	29.8	30	--	96.4	84	--	2.3	4	--
CUSTOM CFS EW95013	29.8	--	--	105.7	--	--	4.1	--	--
CUSTOM CFS 5801	29.8	30	--	92.8	87	--	1.5	4	--
BECK'S 63X	29.9	30	--	102.8	96	--	0.8	2	--
*GOLDEN HARVEST H-2572	30.1	30	--	131.9	112	--	1.4	3	--
*SOHIGRO S-48	30.1	--	--	122.1	--	--	1.5	--	--
*MFI-1877	30.3	--	--	127.5	--	--	0.0	--	--
PRIDE 6692	30.4	30	--	118.2	91	--	1.6	4	--
P-A-G SX297	30.5	--	--	106.9	--	--	0.7	--	--
SUPER CROST 4304	30.6	30	--	112.1	87	--	1.5	2	--
BECK'S 65X	30.8	30	30	95.2	76	91	0.7	1	1
MFI-1900	30.8	31	29	92.1	80	89	0.0	1	2
JACQUES 7900	31.5	32	--	116.9	92	--	1.5	2	--
PRIDE 7705	31.6	--	--	101.8	--	--	0.7	--	--
DAIRYLAND DST11007	31.6	--	--	104.2	--	--	0.7	--	--
GOLDEN HARVEST H-2604	31.8	--	--	85.5	--	--	2.4	--	--

TABLE 04

SOUTHERN MICHIGAN  
Kalamazoo County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2 YR	3 YR	1985	2 YR	3 YR	1985	2 YR	3 YR
PAYCO SX620	21.8	23	22	111.3	78	76	2.1	4	5
CROW'S 181	21.9	24	--	109.8	79	--	2.1	3	--
KING K416	22.2	--	--	99.6	--	--	3.4	--	--
WOLVERINE W168	22.7	--	--	114.7	--	--	1.5	--	--
SOHIGRO S-29	22.7	--	--	84.8	--	--	2.9	--	--
-----									
KING K4422	23.6	25	24	84.1	73	76	0.8	3	3
RUPP XR 1602	23.6	--	--	81.2	--	--	1.5	--	--
GREAT LAKES GL-498	23.8	--	--	115.0	--	--	0.0	--	--
CROW'S 199	23.9	25	23	98.1	79	80	3.7	3	3
PAYMASTER 2890	24.1	26	--	103.6	81	--	0.8	3	--
-----									
KING K4474	24.4	24	23	84.6	79	84	1.4	4	5
P-A-G SX239	24.5	26	26	87.9	78	84	0.7	4	4
NORTHROP KING PX9353	24.8	--	--	91.9	--	--	0.7	--	--
*BECK'S 49X	24.8	27	--	121.1	106	--	0.0	0	--
PIONEER 3707	24.9	26	24	111.9	96	105	0.8	4	4
-----									
CARGILL 842	24.9	--	--	94.3	--	--	0.7	--	--
CROW'S 431	25.0	27	26	116.1	97	101	1.4	3	2
FUNK G-4342	25.1	26	24	82.7	72	74	0.0	2	2
GLENN & GARNO GX1023	25.2	--	--	95.4	--	--	0.7	--	--
DEKALB-PFIZER DK562	25.3	--	--	99.6	--	--	0.7	--	--
-----									
FUNK G-4312	25.3	--	--	109.1	--	--	0.7	--	--
AGRIPRO AP244	25.3	--	--	81.2	--	--	1.6	--	--
*PIONEER 3744	25.4	--	--	128.2	--	--	0.7	--	--
*PIONEER 3737	25.4	26	--	120.7	98	--	1.7	8	--
GOLDEN HARVEST H-2448	25.4	27	26	116.9	104	106	0.0	1	1
-----									
GREAT LAKES GL-540	25.5	--	--	109.9	--	--	0.0	--	--
WOLVERINE W174A	25.5	--	--	93.8	--	--	0.8	--	--
AGRIPRO HP277	25.5	26	--	81.1	80	--	2.2	4	--
PAYCO SX710	25.5	--	--	115.1	--	--	0.0	--	--
MF1-1834	25.6	--	--	112.0	--	--	1.4	--	--
-----									
AGRIPRO AP339	25.7	--	--	100.3	--	--	0.7	--	--
PAYMASTER 2990	25.7	26	25	117.6	85	89	0.7	5	5
*PICKSEED 14-102	25.7	--	--	130.6	--	--	0.8	--	--
NORTHROP KING PX9345	25.9	--	--	87.7	--	--	2.2	--	--
ANDERSONS PSX105	25.9	27	27	89.1	82	82	2.2	1	3
-----									
*PIONEER 3540	26.0	26	--	122.2	101	--	1.4	2	--
*GRIES X580	26.2	--	--	124.1	--	--	2.3	--	--
CROW'S 212	26.2	--	--	95.0	--	--	1.4	--	--
*GREAT LAKES GL-579	26.4	27	--	134.4	110	--	3.6	5	--
SELECT 3720	26.4	27	--	110.3	100	--	0.0	4	--
-----									
*FUNK G-4440	26.5	--	--	132.4	--	--	0.0	--	--
*KING K5574	26.5	--	--	121.3	--	--	0.0	--	--
ASGROW/O'S GOLD RX717	26.6	--	--	85.3	--	--	1.5	--	--
RUPP XR1639	26.6	28	26	103.6	94	97	3.9	6	6
PAYCO SX860	26.6	29	28	99.4	94	104	1.4	2	3
-----									
VORIS V2471	26.6	28	--	106.0	87	--	2.1	3	--
CARGILL 889	26.7	27	--	99.8	95	--	2.2	5	--
STAUFFER SEEDS S5340	26.8	27	26	98.0	83	87	2.2	5	5
FUNK G-4326	26.8	28	--	101.8	99	--	0.8	1	--
*GARNO S-100X	26.8	--	--	125.8	--	--	7.7	--	--

AVERAGE	26.8	28	26	104.8	90	92	1.3	3	3
RANGE	21.8	23	22	81.1	70	74	0.0	0	1
	31.8	32	30	138.2	112	115	7.7	8	6
LEAST SIGNIFICANT DIFFERENCE	1.8	1.1	0.7	14.2	9	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	April 30	May 10	May 12
HARVESTED	October 24	October 19	October 18
SOIL TYPE	Kalamazoo loam	Kalamazoo loam	Kalamazoo loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,800	21,400	21,300
ROWS	30"	30"	30"
FERTILIZER	125-48-24	122-48-114	122-48-114
SOIL TEST: pH	5.9	5.6	5.9
P	162(very high)	166(very high)	124(very high)
K	364(very high)	336(very high)	286(high)

FARM COOPERATOR: Richard Van Vrancken, Climax

COUNTY AGRICULTURAL AGENT: Maurice Kaercher, Kalamazoo

TABLE 5

SOUTHERN MICHIGAN  
Kalamazoo County No-Till Trial  
ONE-YEAR AVERAGES - 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
PAYCO SX620	21.3			150.8			14.2		
PIONEER 3737	22.2			159.5			7.9		
CARGILL 842	22.3			162.2			5.0		
FUNK G-4312	22.8			149.7			7.9		
DEKALB-PFIZER DK484	23.0			154.0			9.1		
-----									
PIONEER 3744	23.4			155.2			1.4		
FUNK G-4342	23.6			158.3			13.2		
NORTHROP KING PX9345	23.7			156.5			2.9		
GREAT LAKES GL540	23.8			152.1			8.5		
*MFI-1834	25.4			174.9			0.6		
-----									
*KING K5574	25.5			186.7			2.0		
*DAIRYLAND DX1107	25.9			176.4			1.9		
STAUFFER SEEDS S5650	26.0			165.6			2.2		
*STAUFFER SEEDS S5340	26.1			173.3			2.0		
GREAT LAKES 5922	29.2			138.6			3.4		
-----									
AVERAGE	24.3			160.9			5.5		
-----									
RANGE	21.3			138.6			0.6		
	TO			TO			TO		
	29.2			186.7			14.2		
-----									
LEAST SIGNIFICANT DIFFERENCE	0.6			8.6			--		

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

1985

PLANTED April 29  
HARVESTED October 23  
SOIL TYPE Oshtemo Sandy Loam  
PREVIOUS CROP Corn  
POPULATION 19,000  
ROWS 30"  
FERTILIZER 125-0-0 Unirrigated  
200-0-0 Irrigated  
SOIL TEST: pH 6.1  
p 114 (very high)  
k 282 (high)

FARM COOPERATOR: Michigan State University, W.K. Kellogg Biological Station

COUNTY EXTENSION DIRECTOR: Gale L. Arent, Kalamazoo

COOPERATORS: Dr. Oran Hesterman  
Dr. Francis Pierce  
Department of Crop and Soil Sciences  
Michigan State University

TABLE 06 (CONTINUED)

SOUTHERN MICHIGAN  
Cass County Trial- Irrigated Upland Soil  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
*DAIRYLAND DX1107	22.0	24	--	204.4	191	--	1.4	1	--
RUPP XR1639	22.0	24	22	184.3	184	177	1.5	2	3
*GLENN & GARNO GX1007	22.0	--	--	195.0	--	--	2.9	--	--
STAUFFER SEEDS S5650	22.1	24	23	173.6	166	160	0.8	1	1
FARMERS FCC 5198	22.1	--	--	176.1	--	--	2.1	--	--
-----									
*GREAT LAKES GL-579	22.2	24	23	197.0	182	174	1.4	1	2
PAYMASTER 4790	22.2	25	23	173.5	170	163	2.9	1	2
KING K4484	22.3	--	--	154.3	--	--	2.9	--	--
KING K5574	22.3	--	--	162.7	--	--	0.7	--	--
ANDERSONS PSX-110	22.3	26	--	162.7	165	--	3.6	3	--
-----									
*PRAIRIE STREAM SX485	22.4	--	--	207.0	--	--	0.7	--	--
*RENK RK64	22.4	24	--	202.3	185	--	0.0	1	--
*LEADER LSX530	22.5	--	--	199.3	--	--	2.7	--	--
DAIRYLAND DX1008	22.5	24	23	177.4	160	154	0.0	2	3
*CALLAHAN C754	22.5	--	--	207.8	--	--	2.8	--	--
-----									
*GREAT LAKES 5922	22.6	25	23	196.1	186	178	0.0	0	0
*GARNO S-100X	22.7	--	--	194.6	--	--	1.4	--	--
MFI-1834	22.7	--	--	192.2	--	--	2.1	--	--
RENK RK60	22.9	25	--	166.0	165	--	2.9	2	--
RUPP XR1707	22.9	25	--	179.5	160	--	1.4	1	--
-----									
VORIS EXP.1211	22.9	--	--	169.9	--	--	1.6	--	--
*BECK'S 60X	22.9	26	24	210.9	194	184	3.5	3	3
*JACQUES 7700	23.0	25	--	220.1	198	--	1.5	1	--
LEADER SX575	23.0	26	24	184.2	180	170	2.1	2	2
*PIONEER 3475	23.0	--	--	196.9	--	--	0.0	--	--
-----									
FUNK G-4440	23.1	25	--	177.7	165	--	2.1	3	--
*MCCURDY 5750	23.1	--	--	218.0	--	--	1.4	--	--
STAUFFER SEEDS S6595	23.2	26	--	170.2	163	--	2.3	3	--
STAUFFER SEEDS S6707WX	23.3	26	--	180.9	168	--	2.1	2	--
SELECT 4144	23.3	25	--	185.0	180	--	4.3	3	--
-----									
SELECT 4905	23.3	--	--	168.7	--	--	1.4	--	--
FUNK RA1404	23.4	--	--	176.1	--	--	2.1	--	--
SELECT 4701	23.4	--	--	172.7	--	--	1.4	--	--
VORIS V2471	23.4	25	--	177.1	170	--	0.7	1	--
ASGROW/O'S GOLD RX788	23.5	--	--	174.8	--	--	0.7	--	--
-----									
PARKER 60A	23.5	25	24	171.7	178	168	2.7	2	2
NORTHROP KING PX9527	23.7	--	--	183.8	--	--	2.1	--	--
*P-A-G SX269	23.7	--	--	214.9	--	--	0.0	--	--
P-A-G SX310	23.7	--	--	182.0	--	--	4.3	--	--
AGRIPRO HP470	23.7	26	--	174.4	169	--	4.9	4	--
-----									
DAIRYLAND DX1013	23.7	--	--	190.1	--	--	0.8	--	--
*DEKALB-PFIZER T1100	23.8	27	25	195.6	190	175	2.1	3	4
RUPP XR1780	23.8	26	24	185.7	181	170	0.0	2	2
CUSTOM CFS EW95013	23.8	26	--	164.2	178	--	3.5	2	--
GREAT LAKES GL-599	23.9	--	--	193.2	--	--	0.7	--	--
-----									
*BO-JAC 4420	23.9	--	--	204.8	--	--	2.1	--	--
*BECK'S 63X	24.0	26	--	216.9	206	--	1.4	1	--
*DAIRYLAND DX1012	24.1	26	--	194.5	180	--	2.7	2	--
RENK RK76	24.1	26	--	171.3	173	--	4.4	3	--
*SUPER CROST 4304	24.3	26	--	208.2	184	--	1.4	4	--

TABLE 06

SOUTHERN MICHIGAN ZONE 1  
Cass County Trial-Irrigated Upland Soil  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2 YR	3 YR	1985	2 YR	3 YR	1985	2 YR	3 YR
PAYCO SX620	19.0	--	--	158.3	--	--	3.6	--	--
DEKALB-PFIZER DK461	19.7	--	--	187.7	--	--	3.5	--	--
PIONEER 3707	19.9	23	22	164.3	166	170	0.0	1	1
RUPP XR1602	19.9	--	--	148.6	--	--	0.0	--	--
*FUNK G-4312	20.2	--	--	198.1	--	--	5.5	--	--
BECK'S 49X	20.2	24	22	191.9	167	166	1.4	2	2
STAUFFER SEEDS S4454WX	20.5	--	--	145.3	--	--	7.7	--	--
*DEKALB-PFIZER DK524	20.6	--	--	204.9	--	--	0.0	--	--
PIONEER 3737	20.6	23	--	183.1	169	--	1.4	4	--
STAUFFER SEEDS S4414	20.7	--	--	152.8	--	--	0.7	--	--
PARKER 29A	20.7	--	--	158.3	--	--	4.1	--	--
PIONEER 3744	20.9	--	--	178.4	--	--	1.4	--	--
PAYMASTER 2990	20.9	--	--	192.6	--	--	1.4	--	--
CARGILL 842	20.9	--	--	185.3	--	--	0.0	--	--
GOLDEN HARVEST H-2448	21.0	24	23	179.8	170	162	2.7	2	2
MF1-1812	21.0	24	22	160.6	159	161	3.7	4	4
FUNK G-4326	21.2	24	--	159.1	167	--	1.4	3	--
RENK RK66	21.2	--	--	156.5	--	--	3.5	--	--
DEKALB-PFIZER DK562	21.3	--	--	174.9	--	--	0.7	--	--
RENK RK25	21.3	--	--	170.1	--	--	3.4	--	--
ANDERSONS PSX-105	21.3	24	23	163.5	157	158	9.9	6	6
GREAT LAKES GL-540	21.4	--	--	175.9	--	--	1.5	--	--
P-A-G SX297	21.4	--	--	159.9	--	--	2.9	--	--
SELECT 3720	21.4	24	--	189.1	178	--	2.8	3	--
*CARGILL 889	21.4	24	--	208.3	186	--	1.4	1	--
DAIRYLAND DX1006	21.4	23	22	168.4	161	158	4.1	4	4
PARKER 32	21.4	23	22	163.3	155	147	4.9	3	7
RUPP XR1690	21.4	24	23	149.1	150	145	8.8	6	5
CROW'S 431	21.5	24	23	159.9	147	147	1.4	3	3
BECK'S 51X	21.5	24	--	181.7	175	--	1.5	1	--
*CARGILL 874	21.6	24	--	213.4	195	--	2.0	1	--
PRAIRIE STREAM SX350	21.6	24	--	191.4	183	--	2.7	2	--
CROW'S 212	21.6	--	--	177.3	--	--	1.4	--	--
*FARMERS FCC251	21.6	24	22	195.3	186	182	2.7	4	5
LEADER SX510A	21.7	--	--	165.4	--	--	0.0	--	--
GREAT LAKES GL-547	21.7	24	22	180.8	178	173	0.7	3	3
P-A-G SX275	21.7	25	23	190.9	178	173	0.7	2	3
ANDERSONS PSX-108	21.7	23	22	180.6	171	164	2.1	4	4
MF1-1776	21.7	--	--	186.5	--	--	0.7	--	--
STAUFFER SEEDS S5722WX	21.8	24	--	147.3	149	--	7.1	5	--
STAUFFER SEEDS S5750	21.8	24	--	187.3	164	--	2.1	2	--
SUPER CROST 3030	21.8	24	22	160.6	157	149	5.0	6	6
*PIONEER 3540	21.8	24	--	196.1	186	--	0.7	1	--
AGRIPRO AP391	21.8	--	--	146.8	--	--	2.9	--	--
CARGILL 893	21.8	--	--	146.9	--	--	0.7	--	--
FUNK G-4342	21.9	24	23	180.5	168	165	3.6	3	3
*CROW'S 444	21.9	24	23	206.4	182	173	2.9	1	2
PAYCO SX872	21.9	24	23	163.5	171	159	5.7	4	4
GLENN & GARNO GX1023	21.9	--	--	184.9	--	--	2.1	--	--
*STAUFFER SEEDS S5340	22.0	24	22	212.0	200	184	0.7	0	1

*AGRIPRO AP510	24.3	--	--	193.9	--	--	0.7	--	--
*MF1-1976	24.3	26	25	211.0	180	168	1.4	3	4
GREAT LAKES GL-608	24.4	27	--	188.4	173	--	0.7	4	--
CALLAHAN C766	24.4	27	25	179.1	173	173	1.4	2	3
CARGILL 921	24.5	26	25	176.5	176	173	8.7	4	5
CUSTOM CFS W7651	24.5	27	--	167.2	172	--	2.1	3	--
*BECK'S 65X	24.5	27	25	207.5	197	190	2.8	2	2
MF1-1877	24.5	--	--	163.6	--	--	3.8	--	--
RUPP XR1829	24.6	--	--	157.2	--	--	1.4	--	--
SELECT 5188	25.1	27	26	173.1	180	173	0.0	0	1
CROW'S 666	25.1	27	--	191.5	187	--	1.4	3	--
*ASGROW/O'S GOLD 2545	25.3	27	--	206.8	193	--	1.4	2	--
*MCCURDY 7384	25.4	--	--	196.4	--	--	1.5	--	--
BO-JAC 607	25.5	--	--	170.3	--	--	0.7	--	--
JACQUES 7900	25.9	28	--	169.8	172	--	0.7	1	--
DAIRYLAND DST11007	27.9	--	--	185.1	--	--	0.7	--	--
AVERAGE	22.5	25	23	178.0	175	167	2.2	2	3
RANGE	19.0	23	22	145.3	147	145	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.9	28	26	220.1	206	190	9.9	6	7
LEAST SIGNIFICANT DIFFERENCE	1.5	1.0	0.7	15.8	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	April 29	May 12	May 12
HARVESTED	October 23	October 20	October 17
SOIL TYPE	Oshtemo Sandy Loam	Oshtemo Sandy Loam	Oshtemo Sandy Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,900	21,800	23,400
ROWS	30"	30"	30"
FERTILIZER	343-44-131+zinc	200-40-5+zinc	224-80-103+zinc
IRRIGATION	8 inches	8 inches	11 inches
SOIL TEST: pH	6.8	6.2	6.4
P	230(very high)	189(very high)	206(very high)
K	440(very high)	295(high)	396(very high)

FARM COOPERATOR: Dave Cripe, Cassopolis

COUNTY AGRICULTURAL AGENT: Wayne Hothem, Cassopolis

TABLE 07

SOUTHERN MICHIGAN  
Cass County Trial- Muck Soil  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1985	2 YR	3 YR	1985	2 YR	3 YR	1985	2 YR	3 YR
*PIONEER 3737	20.0	22	--	138.0	139	--	2.1	2	--
*GOLDEN HARVEST H-2300	20.0	21	20	133.1	128	114	2.2	2	2
*DEKALB-PFIZER DK461	20.1	--	--	141.4	--	--	3.3	--	--
*CARGILL 859	20.3	--	--	129.8	--	--	2.7	--	--
P-A-G SX193	20.5	22	22	97.1	113	104	1.5	3	4
FUNK 2033X	20.6	--	--	102.3	--	--	0.7	--	--
DEKALB-PFIZER DK484	20.7	23	22	116.3	130	117	2.7	3	3
AGRIPRO AP244	20.7	--	--	92.9	--	--	2.4	--	--
ANDERSONS PSX-93	20.7	22	20	91.0	110	100	0.0	0	1
*GREAT LAKES GL-487	21.0	23	--	133.2	137	--	0.7	1	--
*BETASEED KH391	21.1	--	--	123.3	--	--	0.7	--	--
PAYCO SX620	21.1	22	21	106.2	119	108	2.1	2	2
NORTHROP KING PX9345	21.2	--	--	119.1	--	--	0.7	--	--
ANDERSONS QSX-95	21.4	--	--	91.4	--	--	3.7	--	--
PIONEER 3744	21.6	23	--	112.4	122	--	0.0	1	--
CARGILL 842	21.6	--	--	118.6	--	--	1.4	--	--
FUNK G-4256	21.7	22	22	107.9	112	102	3.1	3	4
*KING K4474	21.7	23	--	138.7	137	--	2.7	4	--
CARGILL 861	21.7	--	--	124.6	--	--	4.1	--	--
KING K4422	21.9	23	22	95.7	116	111	1.5	1	2
*DEKALB-PFIZER DK524	22.1	--	--	136.7	--	--	0.7	--	--
FUNK G-4211	22.1	23	--	104.2	118	--	1.5	2	--
DAIRYLAND DST10007	22.1	--	--	95.0	--	--	5.0	--	--
GOLDEN HARVEST H-2344	22.1	--	--	119.0	--	--	1.5	--	--
PIONEER 3707	22.3	24	23	121.9	127	115	0.0	2	2
DAIRYLAND DX1102	22.4	--	--	106.3	--	--	2.2	--	--
ANDERSONS PSX-105	22.4	24	24	116.3	120	104	4.7	5	4
ANDERSONS QSX-100	22.5	--	--	90.4	--	--	6.2	--	--
GREAT LAKES GL-498	22.6	--	--	110.7	--	--	0.7	--	--
DAIRYLAND DX1001	22.6	23	--	98.5	109	--	3.5	5	--
*PAYCO SX788	22.7	--	--	138.1	--	--	1.4	--	--
GLENN & GARNO GX920	22.8	--	--	95.4	--	--	4.3	--	--
*FUNK G-4312	22.9	--	--	133.7	--	--	2.3	--	--
AGRIPRO HP401	23.0	--	--	93.3	--	--	2.1	--	--
BECK'S 40XT	23.1	25	--	90.8	113	--	3.6	7	--
*KING K416	23.2	--	--	129.7	--	--	2.7	--	--
P-A-G SX239	23.5	--	--	97.1	--	--	5.7	--	--
DEKALB-PFIZER DK562	23.6	--	--	93.8	--	--	0.0	--	23.6
GREAT LAKES GL-547	23.7	--	--	113.2	--	--	1.4	--	--
GREAT LAKES GL-540	23.7	--	--	106.5	--	--	0.7	--	--
CARGILL 867	23.7	--	--	111.2	--	--	4.8	--	--
PARKER 29A	23.7	--	--	97.1	--	--	0.7	--	--
AGRIPRO AP391	23.8	--	--	102.3	--	--	1.5	--	--
AGRIPRO AP339	23.8	--	--	117.6	--	--	0.0	--	--
DAIRYLAND DX1006	23.8	24	24	103.6	122	114	3.5	4	4
VORIS V2451	23.8	24	23	108.5	121	118	2.8	2	2
*PIONEER 3540	23.9	24	--	141.4	141	--	0.0	1	--
GOLDEN HARVEST H-2440	24.1	25	24	103.1	119	111	3.5	2	3
BECK'S 49X	24.2	25	24	93.4	121	112	1.4	2	1
FUNK G-4342	24.5	25	24	113.1	131	124	1.4	1	2

TABLE 08 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Kent County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1985	2 YR	3 YR	1985	2 YR	3 YR	1985	2 YR	3 YR
ANDERSONS PSX-93	20.6	21	21	87.9	76	86	3.8	3	3
PAYCO SX620	20.6	21	21	81.8	85	92	0.7	1	4
RUPP XR1602	20.7	--	--	91.0	--	--	0.0	--	--
DAIRYLAND DX1003	20.8	21	22	92.1	81	98	0.7	7	8
SUPER CROST 2288	20.9	--	--	93.0	--	--	1.4	--	--
WOLVERINE W164	21.0	--	--	92.6	--	--	1.7	--	--
ANDERSONS QSX-95	21.0	--	--	78.8	--	--	1.4	--	--
GREAT LAKES GL-540	21.1	--	--	96.9	--	--	0.0	--	--
PRIDE 4422	21.1	22	--	112.0	110	--	1.5	1	--
FUNK G-4256	21.2	21	22	90.7	80	92	0.0	12	11
*GREAT LAKES GL-437	21.2	--	--	116.7	--	--	0.8	--	--
*DEKALB-PFIZER DK461	21.3	--	--	117.3	--	--	1.4	--	--
*PIONEER 3737	21.4	22	--	119.4	98	--	2.2	4	--
*KING K416	21.4	--	--	118.8	--	--	1.5	--	--
STAUFFER SEEDS S4414	21.5	--	--	102.6	--	--	0.8	--	--
*DEKALB-PFIZER DK524	21.5	--	--	118.9	--	--	2.2	--	--
*JACQUES 5400	21.5	22	--	116.6	110	--	0.0	2	--
GREAT LAKES GL-498	21.5	--	--	102.2	--	--	2.4	--	--
WOLVERINE X1102A	21.5	--	--	91.2	--	--	3.0	--	--
PIONEER 3707	21.5	21	--	112.3	106	--	0.0	4	--
STAUFFER-SEEDS S4454WX	21.6	--	--	111.3	--	--	2.7	--	--
DEKALB-PFIZER DK484	21.7	22	23	109.4	107	119	0.8	6	7
DAIRYLAND DX1102	21.7	--	--	84.7	--	--	2.2	--	--
NORTHROP KING PX9345	21.8	--	--	80.4	--	--	0.0	--	--
*DAIRYLAND DX1105	21.8	22	23	119.3	99	112	0.0	8	9
PIONEER 3744	21.9	22	23	92.3	94	113	0.0	1	2
STANTON SX100	21.9	23	23	97.4	91	103	2.2	8	8
NORTHROP KING PX9353	22.1	21	22	107.0	98	116	0.7	3	5
*P-A-G SX182	22.1	--	--	117.0	--	--	2.2	--	--
BETASEED KH391	22.1	--	--	97.4	--	--	2.1	--	--
RUPP XR1639	22.1	22	--	99.9	96	--	1.5	4	--
*FUNK G-4342	22.2	22	23	119.0	99	121	0.0	6	6
CARGILL 861	22.2	--	--	92.5	--	--	1.4	--	--
*DAIRYLAND DX1107	22.4	23	--	116.6	100	--	0.8	2	--
AGRIPRO AP412	22.5	--	--	95.8	--	--	2.3	--	--
STAUFFER SEEDS S5722WX	22.6	--	--	97.0	--	--	0.7	--	--
*JACQUES 7700	22.6	--	--	116.9	--	--	0.0	--	--
PRIDE 3376	22.6	--	--	114.2	--	--	2.1	--	--
KING K4422	22.7	22	23	95.1	91	105	0.8	3	4
FUNK G-4312	22.8	--	--	99.9	--	--	0.7	--	--
CARGILL 842	22.8	--	--	105.7	--	--	0.0	--	--
*PAYCO SX872	22.9	23	24	116.0	111	124	1.5	4	5
SUPER CROST 2410	23.1	23	24	109.4	100	121	4.4	8	9
DAIRYLAND DX1006	23.1	23	23	80.6	79	103	2.3	9	9
DEKALB-PFIZER DK505	23.4	--	--	113.9	--	--	2.9	--	--
FUNK G-4326	23.4	24	--	108.3	101	--	0.0	6	--
GREAT LAKES GL-547	23.4	23	24	113.6	109	124	0.8	3	4
PRIDE 4474	23.4	--	--	97.7	--	--	0.7	--	--
KING K4464	23.4	23	24	101.0	92	103	0.8	4	4
DAIRYLAND DX1008	23.4	23	25	108.3	100	121	1.4	5	5

*PIONEER 3475	24.5	--	--	137.6	--	--	0.7	--	--
AGRIPRO AP412	24.5	--	--	100.8	--	--	2.1	--	--
DAIRYLAND DX1107	24.6	24	--	112.8	117	--	1.4	3	--
PAYCO SX860	25.2	--	--	119.3	--	--	0.7	--	--
ASGROW/O'S GOLD 2450	26.6	--	--	97.1	--	--	2.1	--	--
AGRIPRO HP470	28.3	--	--	103.6	--	--	0.7	--	--
*DEKALB-PFIZER T1100	28.5	28	27	127.1	129	118	2.7	3	3
ASGROW/O'S GOLD 6880	28.7	--	--	93.5	--	--	0.7	--	--
BECK'S 60X	28.9	29	--	116.9	124	--	1.4	1	--
AVERAGE	22.8	24	23	111.4	123	111	2.1	2	3
RANGE	20.0	21	20	90.4	109	100	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.9	29	27	141.4	141	124	6.2	7	4
LEAST SIGNIFICANT DIFFERENCE	1.7	1.0	0.9	14.1	7	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	May 11	May 12	May 26
HARVESTED	October 23	October 22	October 17
SOIL TYPE	Palms muck	Palms muck	Palms muck
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,900	21,500	21,200
ROWS	38"	38"	38"
FERTILIZER	113-53-53+2%Manganese	143-40-80	146-60-60
SOIL TEST: pH	6.2	6.2	6.1
P	125(very high)	122(very high)	80(high)
K	508(very high)	587(very high)	455(very high)

FARM COOPERATOR: Warren Wooden, Cassopolis

COUNTY AGRICULTURAL AGENT: Wayne Hothem, Cassopolis

TABLE 08 SOUTH CENTRAL MICHIGAN ZONE 2  
Kent County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE		BUSHEL PER ACRE			% STALK LODGING			
	1985	YR	YR	1985	YR	YR	1985	YR	YR
STANTON SX90	19.4	20	20	78.1	76	86	2.3	6	7
STANTON SX95	19.5	20	21	86.2	81	90	0.0	1	4
FUNK G-4211	19.6	20	--	88.3	84	--	0.0	6	--
P-A-G SX180	19.6	--	--	88.3	--	--	1.0	--	--
AGRIPRO AP244	19.6	--	--	89.2	--	--	0.8	--	--
DAIRYLAND DX1096	19.7	20	21	88.8	83	100	2.2	3	4
AGRIPRO AP339	19.8	--	--	77.6	--	--	3.1	--	--
DAIRYLAND DX1097	19.8	20	--	91.6	79	--	3.0	5	--
STAUFFER SEEDS S3306	20.0	21	21	87.6	84	100	0.0	2	3
*CARGILL 859	20.2	--	--	118.8	--	--	3.5	--	--
WOLVERINE X198	20.4	--	--	100.3	--	--	0.7	--	--
MF1-1855	20.4	--	--	101.3	--	--	0.8	--	--
STAUFFER SEEDS S3406WX	20.5	--	--	88.6	--	--	1.7	--	--
GREAT LAKES GL-466	20.5	21	22	114.1	107	117	1.5	4	7
DAIRYLAND DX1001	20.5	21	--	94.8	82	--	3.5	11	--

ASGROW/O'S GOLD 2450	23.4	--	--	89.5	--	--	1.4	--	--
NORTHROP-KING PX9410	23.5	23	--	82.9	81	--	1.5	3	--
ANDERSONS PSX-100	23.5	23	--	95.1	93	--	1.6	4	--
*GARNO S-100X	23.6	--	--	119.1	--	--	0.7	--	--
AGRIPRO AP391	23.6	--	--	83.6	--	--	0.0	--	--
*GREAT LAKES GL-579	23.7	24	--	117.0	105	--	0.0	4	--
DAIRYLAND DST10007	23.7	--	--	93.9	--	--	1.6	--	--
*GOLDEN HARVEST H-2465	23.7	--	--	117.1	--	--	2.4	--	--
*PICKSEED 14-102	23.7	--	--	117.2	--	--	0.0	--	--
*GLENN & GARNO GX1007	23.7	--	--	116.1	--	--	0.9	--	--
STAUFFER SEEDS S5650	23.8	24	25	111.6	99	118	1.5	3	4
NORTHROP KING PX39	23.8	--	--	113.4	--	--	1.7	--	--
MF1-1776	23.8	--	--	98.1	--	--	1.5	--	--
FUNK G-4323	23.9	24	24	92.9	85	106	1.5	7	7
*PIONEER 3540	23.9	--	--	118.5	--	--	0.0	--	--

CARGILL 874	23.9	--	--	93.3	--	--	0.0	--	--
NATIONAL AG NA105	24.1	24	--	104.5	90	--	1.5	10	--
NATIONAL AG NA108	24.1	--	--	110.8	--	--	0.7	--	--
*CUSTOM CFS 5801	24.1	23	24	116.8	107	124	0.8	4	6
*STAUFFER SEEDS S5340	24.2	24	24	114.7	107	119	1.4	3	4

KING K4484	24.2	--	--	90.2	--	--	1.5	--	--
DAIRYLAND DST9504	24.2	--	--	85.7	--	--	0.0	--	--
MF1-1834	24.3	--	--	99.8	--	--	0.0	--	--
CUSTOM CFS W5753	24.6	--	--	92.6	--	--	0.0	--	--
GREAT LAKES 5922	24.7	25	25	110.3	106	121	1.5	3	2

*KING K5574	24.8	--	--	115.6	--	--	0.7	--	--
PAYCO SX710	24.9	--	--	98.7	--	--	0.8	--	--
*RUPP XR1690	25.0	24	--	117.7	100	--	1.4	4	--
*GOLDEN HARVEST H-2480	25.0	24	--	117.7	112	--	0.7	3	--
AGRIPRO HP401	25.5	--	--	89.5	--	--	0.0	--	--

RUPP XR1707	25.9	26	--	91.5	91	--	0.0	2	--
GOLDEN HARVEST H-2572	26.1	26	--	98.5	101	--	0.7	0	--
DAIRYLAND DST11007	27.0	--	--	97.8	--	--	1.8	--	--
ASGROW/O'S GOLD 6880	27.1	26	26	92.8	99	112	0.8	5	8

AVERAGE	22.4	22	23	101.6	95	109	1.2	4	6
RANGE	19.4	20	20	77.6	76	86	0.0	0	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.1	26	26	119.4	112	124	4.4	12	11

LEAST SIGNIFICANT DIFFERENCE	1.5	1.0	0.7	12.7	8	6	--	--	--
------------------------------	-----	-----	-----	------	---	---	----	----	----

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	May 9	May 8	May 16
HARVESTED	October 31	October 29	October 25
SOIL TYPE	Belville Loam	Belville Loam	Belville Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,500	21,700	21,500
ROWS	30"	30"	30"
FERTILIZER	189-48-60	141-57-60, boron	73-91-150, boron, manure
SOIL TEST: pH	6.6	6.0	5.8
P	76(high)	77(high)	92(high)
K	378(very high)	265(high)	269(high)

FARM COOPERATOR: Gerald Kayser, Caledonia

COUNTY AGRICULTURAL AGENT: Jeff Wendorf, Grand Rapids





DAIRYLAND DX1102	24.0	--	--	107.3	--	--	7.1	--	--
DAIRYLAND DST10007	24.2	--	--	75.2	--	--	21.5	--	--
CUSTOM CFS W5753	24.2	--	--	85.4	--	--	4.5	--	--
*DEKALB-PFIZER DK524	24.3	--	--	134.6	--	--	1.5	--	--
JACQUES JX151	24.3	27	27	100.1	100	115	8.1	6	5
-----									
*DAIRYLAND DX1105	24.5	27	28	127.5	115	131	3.5	3	3
CUSTOM CFS 6203	24.8	--	--	88.6	--	--	5.3	--	--
DEKALB-PFIZER DK505	24.9	--	--	82.1	--	--	3.7	--	--
ASGROW/O'S GOLD 2450	25.0	--	--	101.6	--	--	0.7	--	--
*STAUFFER SEEDS S5340	25.1	--	--	121.7	--	--	4.4	--	--
-----									
FUNK G-4342	25.1	28	27	89.2	80	106	9.0	5	4
*GARNO S-100X	25.1	--	--	127.7	--	--	0.7	--	--
*GOLDEN HARVEST H-2480	25.1	--	--	136.7	--	--	2.9	--	--
AGRIPRO AP391	25.2	--	--	84.4	--	--	7.9	--	--
*PAYCO SX872	25.4	27	--	129.6	112	--	2.2	2	--
-----									
*DAIRYLAND DX1107	25.6	--	--	130.2	--	--	0.0	--	--
*JACQUES 7700	25.7	27	--	126.4	121	--	4.3	4	--
DAIRYLAND DX1006	25.7	27	27	108.7	98	112	2.2	2	3
*GLENN & GARNO GX1007	26.0	--	--	120.8	--	--	0.8	--	--
*AGRIPRO AP412	27.2	--	--	123.9	--	--	2.9	--	--
-----									
ASGROW/O'S GOLD RX717	27.4	--	--	111.8	--	--	3.6	--	--
*STAUFFER SEEDS S5650	27.5	--	--	115.5	--	--	1.5	--	--
*PICKSEED 14-102	27.7	--	--	117.1	--	--	1.4	--	--
*KING K4474	27.8	--	--	125.2	--	--	1.4	--	--
-----									
AVERAGE	23.4	25	25	101.9	94	111	3.9	3	5
-----									
RANGE	20.1	22	23	70.3	69	99	0.0	1	3
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.8	28	28	137.4	121	131	21.5	8	7
-----									
LEAST SIGNIFICANT DIFFERENCE	1.7	1.2	0.9	11.3	8	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	May 9	June 14	May 17
HARVESTED	October 31	October 25	November 4
SOIL TYPE	Gilford and Sebewa Loam	Gilford and Sebewa Loam	Gilford and Sebewa Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,700	21,200	21,400
ROWS	30"	30"	30"
FERTILIZER	109-36-36	12-48-48	110-41-41
SOIL TEST: pH	5.8	6.3	6.2
	P 176(very high)	219(very high)	67(very high)
	K 345(very high)	337(very high)	171(very high)

FARM COOPERATOR: Gerald Geurink, Allendale  
 COUNTY AGRICULTURAL AGENT: Ira Krupp, Grand Haven

DAIRYLAND DST10007	23.6	--	--	124.2	--	--	0.0	--	--
STAUFFER SEEDS S4414	23.7	--	--	114.9	--	--	0.0	--	--
FUNK G-4256	23.7	25	25	127.0	121	110	2.2	5	5
RUPP XR1602	23.7	--	--	127.4	--	--	0.9	--	--
PICKSEED 14-102	23.7	--	--	140.4	--	--	0.0	--	--
-----									
*CALLAHAN C754	23.7	--	--	174.0	--	--	2.8	--	--
PRIDE 4474	23.8	--	--	136.5	--	--	2.3	--	--
PAYCO SX710	23.8	--	--	142.4	--	--	0.7	--	--
*DAIRYLAND DX1006	24.0	26	26	170.3	143	128	4.9	7	8
ANDERSONS PSX-100	24.0	27	--	144.9	136	--	0.7	3	--
-----									
STAUFFER SEEDS S5750	24.1	28	--	158.6	138	--	0.8	1	--
SUPER CROST 3030	24.1	27	--	152.9	144	--	1.4	1	--
PIONEER 3540	24.1	--	--	151.7	--	--	0.7	--	--
PRO-SEED HL2830	24.1	--	--	158.9	--	--	1.4	--	--
SELECT 3300	24.1	27	28	158.4	138	133	0.7	3	3
-----									
DAIRYLAND DX1102	24.1	--	--	145.9	--	--	0.0	--	--
*GOLDEN HARVEST H-2424	24.4	26	--	166.3	139	--	0.0	3	--
NORTHROP KING PX9410	24.5	28	--	142.3	134	--	2.1	2	--
GLENN & GARNO GX1007	24.5	--	--	161.2	--	--	2.1	--	--
PAYMASTER 2890	24.6	27	--	146.1	134	--	1.6	4	--
-----									
*RENK RK60	24.6	28	27	176.3	157	142	1.4	2	3
RENK R148	24.7	--	--	156.2	--	--	1.4	--	--
STANTON SX100	24.7	26	27	154.9	141	123	2.2	4	5
JACQUES 7700	24.9	27	29	159.4	137	126	1.4	3	2
*GREAT LAKES GL-579	24.9	28	--	166.7	148	--	0.7	1	--
-----									
PRO-SEED LG22	24.9	27	--	142.3	125	--	0.0	0	--
DAIRYLAND DX1107	24.9	--	--	161.9	--	--	0.0	--	--
*GARNO S-100X	25.0	27	--	165.5	150	--	0.8	2	--
ANDERSONS PSX-105	25.0	29	29	151.5	131	127	0.7	2	3
FUNK G-4323	25.2	27	28	148.4	144	134	1.5	4	3
-----									
*STAUFFER SEEDS S5340	25.3	27	28	170.6	142	131	2.2	5	4
RENK RK66	25.3	28	28	142.5	127	124	0.7	2	2
FARMERS FCC224A	25.3	30	29	160.0	134	129	2.0	1	2
*SUPER CROST 2989	25.4	27	--	166.0	140	--	0.7	3	--
NORTHROP KING PX39	25.5	--	--	131.3	--	--	1.5	--	--
-----									
GREAT LAKES GL-540	25.6	28	--	157.7	141	--	0.7	2	--
CARGILL 874	25.6	--	--	149.6	--	--	1.4	--	--
*CROW'S 212	25.6	--	--	165.7	--	--	0.8	--	--
PAYCO SX872	25.6	--	--	151.1	--	--	3.6	--	--
*VORIS V2471	25.6	27	--	170.2	147	--	0.7	0	--
-----									
MF1-1776	25.6	--	--	140.0	--	--	0.0	--	--
AGRIPRO HP401	25.7	28	--	132.2	131	--	3.9	4	--
GOLDEN HARVEST H-2448	25.7	28	29	153.7	138	131	0.0	2	3
RENK RK64	25.8	28	--	160.8	139	--	1.6	3	--
MF1-1812	25.8	--	--	131.1	--	--	2.8	--	--
-----									
FUNK G-4312	25.9	27	--	150.4	131	--	4.4	5	--
*KING K5574	25.9	--	--	174.0	--	--	1.4	--	--
CUSTOM CFS 6203	25.9	--	--	153.8	--	--	1.5	--	--
*CARDINAL SX112	26.0	--	--	169.9	--	--	0.0	--	--
*CALLAHAN C771	26.0	--	--	168.8	--	--	1.5	--	--
-----									
FARMERS FCC251	26.1	29	30	140.4	126	118	0.0	2	2
DAIRYLAND DX1008	26.2	28	29	162.4	141	127	1.4	3	3
*RUPP XR1639	26.2	29	28	162.8	141	133	1.4	5	5
*MF1-1834	26.2	--	--	169.7	--	--	0.0	--	--
FUNK G-4326	26.3	29	--	149.0	132	--	1.5	2	--

TABLE 10 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Ingham County Trial- Grain  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	
*GREAT LAKES 5922	26.3	28	28	164.8	153	144	0.9	1	2
*SELECT 3720	26.4	27	--	166.4	140	--	0.0	3	--
AGRIPRO AP412	26.5	--	--	148.4	--	--	0.0	--	--
GLENN & GARNO GX1023	26.6	--	--	138.2	--	--	0.7	--	--
PAYMASTER 2990	26.7	28	27	136.2	139	130	1.5	5	4
PRO-SEED HL2727A	26.7	--	--	156.3	--	--	0.7	--	--
PAYCO SX860	26.8	--	--	155.2	--	--	0.0	--	--
*KING K4484	27.1	--	--	163.1	--	--	0.0	--	--
*GOLDEN HARVEST H-2572	27.1	31	--	172.6	155	--	1.4	1	--
VORIS V2451	27.3	29	29	135.8	128	130	0.0	0	1
RUPP XR1690	27.6	29	28	129.6	126	121	0.7	5	5
STAUFFER SEEDS S5650	27.9	29	29	132.9	136	129	1.4	3	3
RENK RK76	28.2	31	31	157.2	144	140	0.7	2	2
CUSTOM CFS W5753	28.2	--	--	138.1	--	--	1.4	--	--
CARGILL HS50A	29.0	--	--	136.4	--	--	2.1	--	--
RUPP XR1707	29.1	32	--	161.3	135	--	0.0	1	--
*STAUFFER SEEDS S7759	30.0	--	--	163.4	--	--	0.7	--	--
*GOLDEN HARVEST H-2604	31.1	--	--	166.9	--	--	0.0	--	--
STAUFFER SEEDS S6707WX	31.6	--	--	141.0	--	--	0.7	--	--
DAIRYLAND DST11007	32.1	--	--	111.0	--	--	0.7	--	--
SELECT 4701	32.2	--	--	149.4	--	--	3.6	--	--
AVERAGE	24.1	26	26	149.4	136	126	1.4	3	3
RANGE	19.2	22	23	111.0	103	96	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	32.2	32	31	176.3	159	145	5.8	9	8
LEAST SIGNIFICANT DIFFERENCE	2.0	1.4	0.9	13.3	9	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	April 26	April 28	April 27
HARVESTED	October 17	October 22	October 11
SOIL TYPE	Capac Loam	Capac Loam	Capac Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,900	21,200	21,300
ROWS	36"	36"	36"
FERTILIZER	165-50-50	165-50-50	165-50-50
SOIL TEST: pH	6.1	6.2	5.9
	P 155(very high)	140(very high)	186(very high)
	K 235(high)	224(high)	215(high)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

TABLE 11 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Ingham County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

ZONE 2

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	1985	2	3	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	YR		YR	YR
PICKSEED 14-102	37.7	--	--	15.1	--	--	5.7	--	--			
PAYCO SX710	37.6	--	--	16.7	--	--	6.3	--	--			
AGRIPRO AP391	37.5	--	--	14.6	--	--	5.5	--	--			
CROW'S 181	37.5	--	--	13.9	--	--	5.2	--	--			
PAYMASTER 2890	37.3	37.3	--	13.9	15.6	--	5.2	5.8	--			
CARGILL 842	37.3	--	--	18.3	--	--	6.8	--	--			
DEKALB-PFIZER DK484	37.2	35.5	35.6	15.1	16.6	16.1	5.6	5.8	5.7			
GREAT LAKES GL-490	37.2	36.6	--	17.2	17.9	--	6.4	6.5	--			
PRIDE 4422	37.2	37.5	--	16.5	17.5	--	6.1	6.5	--			
SUPER CROST 3030	37.1	35.5	--	17.4	19.1	--	6.5	6.8	--			
FUNK G-4326	37.0	35.3	--	18.8	17.4	--	6.9	6.1	--			
DAIRYLAND DST10007	36.9	--	--	15.9	--	--	5.9	--	--			
RUPP XR1602	36.9	--	--	14.3	--	--	5.3	--	--			
RENK RK19	36.8	36.4	--	17.9	17.1	--	6.6	6.2	--			
FARMERS FCC 251	36.8	35.3	34.2	21.7	21.7	20.1	8.0	7.7	6.9			
VORIS V2471	36.6	35.9	--	20.4	18.2	--	7.5	6.5	--			
STAUFFER SEEDS S4414	36.5	--	--	14.5	--	--	5.3	--	--			
GREAT LAKES GL-579	36.5	35.3	--	19.5	20.0	--	7.1	7.0	--			
MFI-1812	36.4	--	--	14.4	--	--	5.2	--	--			
BETASEED KH391	36.2	--	--	14.5	--	--	5.3	--	--			
NORTHROP KING PX9410	36.1	36.2	--	16.1	15.8	--	5.8	5.7	--			
AGRIPRO AP412	36.0	--	--	17.5	--	--	6.3	--	--			
KING K5574	35.8	--	--	18.5	--	--	6.6	--	--			
RENK R148	35.8	--	--	18.0	--	--	6.4	--	--			
GARNO S-100X	35.7	36.1	--	20.1	19.0	--	7.2	6.9	--			
SUPER CROST 2989	35.6	34.4	--	19.7	19.3	--	7.0	6.6	--			
P-A-G SX267	35.6	34.3	--	18.0	18.8	--	6.4	6.4	--			
ANDERSONS PSX-108	35.6	--	--	16.7	--	--	5.9	--	--			
PRO-SEED HL2727A	35.4	--	--	16.9	--	--	6.0	--	--			
RENK RK64	35.4	34.6	--	19.1	19.0	--	6.8	6.6	--			
RUPP XR1690	35.4	33.8	34.2	16.6	18.2	16.9	5.9	6.1	5.7			
CARDINAL SX112	35.3	--	--	19.1	--	--	6.7	--	--			
DAIRYLAND DX1102	35.3	--	--	15.6	--	--	5.5	--	--			
MFI-1855	35.3	--	--	15.6	--	--	5.5	--	--			
NORTHROP KING PX39	35.2	--	--	17.8	--	--	6.3	--	--			
RENK RK60	35.2	34.5	35.0	20.3	19.7	18.3	7.2	6.8	6.4			
RENK RK25	35.2	34.9	--	16.6	17.8	--	5.8	6.2	--			
MFI-1776	35.2	--	--	17.3	--	--	6.1	--	--			
GREAT LAKES 5922	35.2	34.2	34.2	20.4	20.5	20.0	7.2	7.0	6.8			
RUPP XR1639	35.1	33.7	34.0	20.1	18.8	18.5	7.0	6.3	6.3			
ANDERSONS QSX-95	35.1	--	--	16.8	--	--	5.9	--	--			
SELECT 3720	35.0	34.8	--	18.8	18.8	--	6.5	6.5	--			
SELECT 3300	35.0	34.7	34.6	20.7	19.0	17.5	7.2	6.6	6.1			
PAYCO SX872	35.0	--	--	18.0	--	--	6.3	--	--			
STAUFFER SEEDS S5650	34.9	34.8	34.9	19.8	20.1	19.2	6.9	7.0	6.7			

TABLE 11

SOUTH CENTRAL MICHIGAN  
Ingham County Trial -Silage  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983  
ZONE 2

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			TONS PER ACRE		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	
KING K2204	45.4	--	--	14.6	--	--	6.7	--	--
CALLAHAN C728	45.3	44.5	43.9	13.9	13.2	13.1	6.3	5.9	5.7
STAUFFER SEEDS S3306	45.2	42.0	--	14.9	16.1	--	6.7	6.7	--
STAUFFER SEEDS S3303	45.1	--	--	14.6	--	--	6.6	--	--
PAYCO SX620	43.2	45.9	43.8	14.3	13.1	13.2	6.2	6.0	5.8
CARGILL 829	43.1	42.4	--	13.8	14.4	--	6.0	6.1	--
DAIRYLAND DX1001	42.9	41.0	--	15.4	14.7	--	6.6	6.0	--
PIONEER 3737	42.6	40.7	--	15.1	16.1	--	6.4	6.5	--
STANTON SX95	42.6	42.1	45.4	11.7	13.2	11.8	5.0	5.5	5.3
PRO-SEED HL2454	42.3	42.6	--	13.1	13.7	--	5.5	5.8	--
ANDERSONS PSX-93	42.2	39.5	39.9	13.4	13.9	13.0	5.7	5.5	5.2
STANTON SX90	42.2	42.1	40.1	11.6	12.7	13.6	4.9	5.3	5.3
GREAT LAKES GL-498	41.9	--	--	14.6	--	--	6.1	--	--
DAIRYLAND DX1003	41.9	41.9	42.0	13.2	14.1	13.5	5.5	5.9	5.6
PRO-SEED HL2444	41.6	40.3	--	15.1	15.1	--	6.3	6.1	--
FUNK G-4217	41.1	--	--	15.5	--	--	6.4	--	--
CROW'S 191	41.1	--	--	13.1	--	--	5.4	--	--
AGRIPRO 244	41.0	--	--	12.0	--	--	4.9	--	--
GOLDEN HARVEST H-2424	40.9	39.4	--	15.0	14.9	--	6.2	5.9	--
ASGROW/O'S GOLD RX532	40.4	39.9	38.8	15.2	15.6	14.4	6.2	6.2	5.6
SELECT 3100	40.0	38.9	38.6	15.6	16.1	15.6	6.3	6.3	6.0
CUSTOM CFS W5753	39.9	--	--	16.5	--	--	6.6	--	--
PIONEER 3744	39.7	38.8	37.5	16.3	16.2	16.3	6.5	6.3	6.1
PRO-SEED LG22	39.4	37.2	--	15.5	16.3	--	6.1	6.0	--
FUNK G-4211	39.3	39.3	--	12.9	14.6	--	5.1	5.7	--
NORTHROP KING PX9353	39.3	37.3	37.3	17.8	17.5	16.4	7.0	6.5	6.1
KING K4464	39.3	36.7	36.5	15.4	15.4	14.7	6.0	5.6	5.3
PRIDE 4474	39.2	--	--	15.4	--	--	6.0	--	--
STANTON SX100	39.2	37.6	36.9	16.2	15.1	14.4	6.4	5.7	5.3
JACQUES 5400	39.0	39.7	--	14.6	14.8	--	5.7	5.9	--
NORTHROP KING PX9345	39.0	--	--	16.0	--	--	6.2	--	--
FUNK G-4256	38.9	36.4	36.7	15.4	15.7	16.0	6.0	5.7	5.8
PRIDE 3376	38.6	--	--	15.6	--	--	6.0	--	--
FUNK G-4323	38.5	36.2	36.2	17.5	17.2	17.4	6.8	6.2	6.3
AGRIPRO AP344	38.4	--	--	17.2	--	--	6.6	--	--
PIONEER 3707	38.3	36.1	36.3	17.1	17.7	17.0	6.6	6.4	6.2
STAUFFER SEEDS S5750	38.1	37.2	--	17.2	16.5	--	6.5	6.1	--
STAUFFER SEEDS S4454WX	38.1	--	--	16.3	--	--	6.2	--	--
DEKALB DK524	38.1	--	--	17.6	--	--	6.7	--	--
FUNK G-4342	38.1	37.6	39.1	17.8	16.4	15.1	6.8	6.2	5.8
FARMERS FCC224A	38.1	34.7	34.8	18.4	20.3	19.6	7.0	6.9	6.7
GREAT LAKES GL-540	38.0	37.2	--	16.8	17.2	--	6.4	6.4	--
P-A-G SX239	38.0	38.4	37.7	16.7	16.7	15.5	6.3	6.3	5.8
KING K416	38.0	--	--	12.3	--	--	4.7	--	--
KING K4422	38.0	38.1	38.0	14.3	14.5	14.7	5.4	5.5	5.5
DAIRYLAND DX1006	38.0	39.2	38.2	14.8	14.3	13.7	5.6	5.6	5.2
FUNK G-4312	37.8	36.7	--	18.4	17.8	--	6.9	6.5	--
CARGILL 859	37.8	--	--	14.9	--	--	5.6	--	--
GREAT LAKES GL-487	37.7	38.5	--	17.8	17.2	--	6.7	6.6	--
PAYMASTER 2990	37.7	37.8	38.1	14.9	16.4	16.2	5.6	6.2	6.2
KING K4484	34.9	--	--	17.9	--	--	6.2	--	--
ANDERSONS PSX-100	34.9	36.0	--	17.1	15.9	--	6.0	5.7	--
GLENN & GARNO GX1023	34.9	--	--	18.4	--	--	6.4	--	--
CARGILL 874	34.8	--	--	16.7	--	--	5.8	--	--
DAIRYLAND DX1107	34.8	--	--	19.8	--	--	6.9	--	--
GLENN & GARNO GX1007	34.7	--	--	20.0	--	--	6.9	--	--
STAUFFER SEEDS S5340	34.6	34.9	34.0	23.1	19.9	18.3	8.0	6.9	6.2
GOLDEN HARVEST H-2448	34.6	34.4	34.8	17.2	17.2	16.6	6.0	5.9	5.7
JACQUES 7700	34.4	32.6	33.0	18.3	20.8	18.9	6.3	6.7	6.2
PAYCO SX860	34.4	--	--	19.5	--	--	6.7	--	--
PIONEER 3540	34.3	--	--	18.3	--	--	6.3	--	--
RUPP XR1707	34.2	34.1	--	18.3	17.2	--	6.3	5.9	--
ANDERSONS PSX-105	34.2	33.7	34.1	20.7	19.0	18.0	7.1	6.4	6.1
CUSTOM CFS 6203	34.1	--	--	20.9	--	--	7.1	--	--
MF1-1834	34.1	--	--	18.3	--	--	6.2	--	--
CROW'S 212	34.0	--	--	19.7	--	--	6.7	--	--
CALLAHAN C754	33.7	--	--	21.8	--	--	7.3	--	--
STAUFFER SEEDS S6707 WX	33.5	--	--	18.2	--	--	6.1	--	--
SELECT 4701	32.9	--	--	18.6	--	--	6.1	--	--
AGRIPRO HP401	32.8	31.4	--	17.7	20.6	--	5.8	6.4	--
RENK RK66	32.6	33.3	32.7	17.2	18.3	17.9	5.6	6.1	5.8
VORIS V2451	32.6	31.7	32.0	16.8	18.5	17.4	5.5	5.8	5.5
PRO-SEED HL2830	32.5	--	--	19.7	--	--	6.4	--	--
CARGILL HS50A	32.5	--	--	19.5	--	--	6.3	--	--
CALLAHAN C771	31.8	--	--	21.4	--	--	6.8	--	--
DAIRYLAND DX1008	31.7	32.9	32.8	17.4	16.8	16.6	5.5	5.5	5.4
RENK RK76	31.7	31.1	30.8	21.5	21.4	21.0	6.8	6.7	6.5
DAIRYLAND DST11007	31.5	--	--	19.2	--	--	5.9	--	--
GOLDEN HARVEST H-2604	30.4	--	--	22.3	--	--	6.8	--	--
STAUFFER SEEDS S7759	30.1	--	--	22.4	--	--	6.7	--	--
GOLDEN HARVEST H-2572	30.1	29.8	--	25.0	23.1	--	7.6	6.9	--
AVERAGE	37.2	36.9	36.7	17.1	17.1	16.4	6.2	6.2	5.9
RANGE	30.1	29.8	30.8	11.6	12.7	11.8	4.7	5.3	5.2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	45.4	45.9	45.4	25.0	23.1	21.0	8.0	7.7	6.9
LEAST SIGNIFICANT DIFFERENCE	3.1	2.1	1.5	2.2	1.5	1.1	0.6	0.5	0.5
1985	1984	1983							
PLANTED	April 26	April 28	April 27						
HARVESTED	September 12	September 10	September 7						
SOIL TYPE	Capac loam	Capac Loam	Capac loam						
PREVIOUS CROP	corn	corn	corn						
POPULATION	22,000	21,000	21,300						
ROWS	36"	36"	36"						
FERTILIZER	165-50-50	165-50-50	165-50-50						
SOIL TEST: pH	6.1	6.2	5.9						
	P 155(very high)	140(very high)	186(very High)						
	K 235(high)	224(high)	215(high)						
FARM COOPERATOR:	Michigan State University,	East Lansing							
COUNTY EXTENSION DIRECTOR:	Marvin Preston,	Mason							

TABLE 12

SOUTH CENTRAL MICHIGAN  
Ingham County No-Till Trial  
ONE-YEAR AVERAGES - 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
PIONEER 3737	26.7			126.3			--		
PAYCO SX620	30.2			105.7			--		
PIONEER 3744	31.5			109.4			--		
DEKALB-PFIZER DK524	31.8			132.1			--		
FUNK G-4342	32.6			111.5			--		
DEKALB-PFIZER DK484	33.2			124.1			--		
FUNK G-4312	33.7			110.4			--		
CARGILL 842	33.8			122.2			--		
NORTHROP KING PX9345	34.0			99.1			--		
*KING K5574	34.3			143.8			--		
MFI-1834	34.6			124.1			--		
DAIRYLAND DX1107	34.7			127.7			--		
STAUFFER SEEDS S5340	34.9			123.2			--		
STAUFFER SEEDS S5650	34.9			122.2			--		
GREAT LAKES GL-540	35.2			103.9			--		
RENK RK66	35.3			103.9			--		
GOLDEN HARVEST H2480	35.5			113.3			--		
GREAT LAKES 5922	35.5			93.1			--		
AVERAGE	33.5			116.5			--		
RANGE	26.7			93.1			--		
	TO			TO			--		
	35.5			143.8			--		
LEAST SIGNIFICANT DIFFERENCE	1.4			20.3			--		

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

## 1985

PLANTED May 4  
HARVESTED October 10  
SOIL TYPE Capac Loam  
PREVIOUS CROP Corn  
POPULATION 18,000  
ROWS 30"  
FERTILIZER 165-50-50  
SOIL TEST: pH 6.5  
p 155 (very high)  
k 84 (low)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

COOPERATORS: Dr. Oran Hesterman  
Dr. Francis Pierce  
Department of Crop and Soil Sciences  
Michigan State University

TABLE 13 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Sanilac County Trial-Grain  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
*GREAT LAKES GL-498	23.4	--	--	155.4	--	--	0.0	--	--
WOLVERINE W168	23.4	--	--	137.3	--	--	0.0	--	--
P-A-G SX175	23.4	28	--	149.9	145	--	0.0	0	--
*PIONEER 3744	23.4	27	28	168.1	163	169	0.0	0	0
CARDINAL 3222	23.5	27	--	139.6	149	--	0.8	1	--
STAUFFER SEEDS S4454WX	23.5	--	--	152.5	--	--	0.7	--	--
FUNK 2033X	23.5	--	--	136.8	--	--	0.7	--	--
P-A-G SX182	23.5	--	--	135.4	--	--	0.7	--	--
*PIONEER 3747	23.5	27	28	170.8	168	169	0.0	1	0
*AGRIPRO AP339	23.5	--	--	155.1	--	--	0.0	--	--
*KING K416	23.5	--	--	161.3	--	--	0.7	--	--
KING 4422	23.5	28	29	145.4	162	167	0.7	1	1
WOLVERINE W164	23.6	--	--	119.0	--	--	0.7	--	--
P-A-G SX180	23.7	28	--	132.8	133	--	0.0	0	--
PRIDE 3376	23.8	--	--	143.4	--	--	0.0	--	--
DAIRYLAND DX1001	23.8	28	--	130.4	131	--	0.0	0	--
SUPER CROST 2288	23.9	29	--	137.3	147	--	0.0	0	--
CARGILL 842	24.2	--	--	141.6	--	--	0.0	--	--
*DAIRYLAND DX1102	24.2	--	--	170.5	--	--	0.7	--	--
FUNK G-4326	24.3	28	--	133.0	141	--	0.0	0	--
*GOLDEN HARVEST H-2344	24.3	--	--	167.0	--	--	0.8	--	--
PRIDE 4422	24.5	29	--	140.7	144	--	1.5	1	--
AGRIPRO AP391	24.7	--	--	129.4	--	--	0.7	--	--
FUNK G-4312	24.8	29	--	137.9	149	--	0.0	0	--
GREAT LAKES GL-516	24.9	29	--	152.0	155	--	2.2	1	--
GREAT LAKES GL-490	25.0	29	--	148.2	148	--	0.7	0	--
ANDERSONS PSX-100	25.0	29	--	126.4	130	--	0.7	1	--
ANDERSONS QSX-95	25.1	--	--	111.6	--	--	2.8	--	--
*DAIRYLAND DX1006	25.2	--	--	153.0	--	--	0.0	--	--
DAIRYLAND DX1105	25.3	29	31	130.3	131	138	0.0	0	0
*STAUFFER SEEDS S5750	25.5	--	--	169.9	--	--	0.0	--	--
GREAT LAKES GL-540	25.6	--	--	152.4	--	--	0.0	--	--
DAIRYLAND DST10007	25.6	--	--	134.5	--	--	1.4	--	--
*ANDERSONS PSX-108	26.2	--	--	153.5	--	--	1.4	--	--
GLENN & GARNO GX920	26.3	--	--	122.0	--	--	0.7	--	--
STAUFFER SEEDS S5340	26.4	29	--	152.3	165	--	1.4	1	--
AGRIPRO HP401	26.5	--	--	123.5	--	--	0.8	--	--
PRIDE 4474	26.6	--	--	128.0	--	--	0.0	--	--
ANDERSONS PSX-105	26.6	30	31	120.2	147	156	0.7	0	0
CALLAHAN C754	26.6	--	--	148.3	--	--	0.0	--	--
GREAT LAKES GL-579	27.1	30	--	149.5	148	--	0.7	1	--
GLENN & GARNO GX960	27.1	--	--	132.7	--	--	0.0	--	--
*SUPER CROST S2989	27.2	30	--	171.7	170	--	0.7	0	--
*KING K5574	27.2	--	--	156.9	--	--	0.7	--	--
*CARGILL 874	27.6	--	--	154.6	--	--	0.0	--	--
CARDINAL SX112	27.7	--	--	144.5	--	--	0.0	--	--
GARNO S-100X	27.7	30	--	144.6	155	--	0.7	1	--
GOLDEN HARVEST EX590	28.1	--	--	147.1	--	--	0.0	--	--
GLENN & GARNO GX1007	28.1	--	--	144.8	--	--	0.0	--	--
CUSTOM CFS W3857	28.5	--	--	121.7	--	--	1.4	--	--

TABLE 13

NORTH CENTRAL MICHIGAN ZONE 3  
Sanilac County Trial- Grain  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1985	2 YR	3 YR	1985	2 YR	3 YR	1985	2 YR	3 YR
CARGILL 829	19.2	24	--	113.4	136	--	0.7	1	--
GLENN & GARNO GX904	19.2	--	--	128.3	--	--	1.5	--	--
DAIRYLAND DX1097	19.3	25	--	130.0	132	--	2.2	2	--
STAUFFER SEEDS S2206	19.4	--	--	118.9	--	--	1.4	--	--
P-A-G SX123	19.4	--	--	144.5	--	--	0.0	--	--
GRIES X219	19.5	--	--	114.1	--	--	0.0	--	--
CARDINAL 2820	19.6	23	--	141.9	131	--	0.0	0	--
STANTON SX95	19.6	24	25	142.9	146	141	0.0	0	1
VORIS EXP.0100	19.7	--	--	134.7	--	--	0.0	--	--
STAUFFER SEEDS S3303	19.8	--	--	129.2	--	--	2.2	--	--
KING K2204	19.8	24	25	128.2	139	144	0.0	0	0
CUSTOM CFS W3759	20.2	--	--	139.2	--	--	0.0	--	--
STANTON SX90	20.4	24	25	118.6	126	134	5.8	3	2
JACQUES JX97	20.6	26	28	116.9	137	148	2.2	3	2
WOLVERINE W130	20.6	--	--	143.2	--	--	0.7	--	--
AGRIPRO HP266	20.9	--	--	150.8	--	--	0.0	--	--
*STAUFFER SEEDS S4402	21.0	26	28	163.2	153	155	0.0	1	1
*SUPER CROST 1940	21.0	26	28	156.1	141	146	0.0	0	0
FUNK G-4217	21.1	--	--	145.0	--	--	0.0	--	--
AGRIPRO AP244	21.1	--	--	110.9	--	--	0.0	--	--
*CALLAHAN 18460X	21.1	--	--	155.5	--	--	0.0	--	--
AGRIPRO HP277	21.2	--	--	126.8	--	--	0.0	--	--
GREAT LAKES GL-414	21.3	--	--	142.9	--	--	0.0	--	--
*GREAT LAKES GL-487	21.5	27	28	155.2	154	166	0.0	0	1
*PIONEER 3901	21.5	26	27	172.0	147	151	0.0	1	1
PAYCO SX620	21.5	26	27	119.8	138	144	0.8	0	1
*CALLAHAN C728	21.5	26	--	161.7	153	--	0.0	1	--
GARNO S-90	21.7	26	26	132.3	143	148	0.7	0	0
STAUFFER SEEDS S3306	21.8	27	--	138.4	148	--	0.7	1	--
FUNK G-4211	21.8	25	--	125.0	134	--	0.8	0	--
*PIONEER 3779	21.8	--	--	165.2	--	--	0.0	--	--
ANDERSONS PSX-93	21.8	25	26	115.9	120	135	0.0	0	0
*ASGROW/O'S GOLD 2330	21.8	27	--	166.1	151	--	0.0	0	--
CUSTOM CFS W3551	21.8	--	--	135.9	--	--	0.0	--	--
GLENN & GARNO GX906	21.9	--	--	143.0	--	--	0.0	--	--
DAIRYLAND DX1096	22.0	27	27	128.3	144	149	0.0	0	0
ASGROW/O'S GOLD RX480	22.1	27	--	130.3	131	--	1.5	1	--
GREAT LAKES GL-422	22.2	26	27	137.9	146	147	0.0	1	1
PICKSEED 5575	22.2	--	--	148.6	--	--	1.4	--	--
GLENN & GARNO GX902	22.2	--	--	113.5	--	--	0.0	--	--
DAIRYLAND DST9504	22.3	--	--	150.6	--	--	0.0	--	--
*DEKALB-PFIZER DK524	22.7	--	--	167.9	--	--	0.0	--	--
PIONEER 3737	22.7	27	--	148.8	146	--	0.0	1	--
GREAT LAKES GL-437	22.8	--	--	150.3	--	--	1.4	--	--
*STANTON SX100	22.9	27	28	155.3	157	147	1.5	2	1
FUNK G-4256	23.1	27	27	126.8	127	132	0.0	0	1
JACQUES EXP.4098	23.2	--	--	151.2	--	--	0.0	--	--
DAIRYLAND DX1003	23.2	27	29	121.0	122	134	1.4	1	0
STAUFFER SEEDS S4414	23.4	--	--	145.0	--	--	0.7	--	--
FUNK G-4342	23.4	28	29	134.2	148	158	1.5	1	1

*GREAT LAKES 5922	28.5	31	32	155.7	154	164	0.0	0	0
AGRIPRO AP412	28.6	--	--	115.2	--	--	0.0	--	--
STAUFFER SEEDS S5650	28.7	31	32	140.9	138	148	0.0	1	0
CARGILL HS50A	30.2	--	--	113.2	--	--	8.8	--	--
GOLDEN HARVEST H2572	30.5	33	--	118.2	130	--	0.0	0	--
VORIS V2451	30.7	33	33	122.9	140	153	0.0	1	1
AVERAGE	23.7	27	28	138.6	144	149	0.6	1	1
RANGE	19.2	23	25	110.9	120	132	0.0	0	0
	T0	T0	T0	T0	T0	T0	T0	T0	T0
	30.7	33	33	172.0	170	169	8.8	3	2
LEAST SIGNIFICANT DIFFERENCE	1.9	1.5	1.0	14.0	9	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	May 3	May 4	May 17
HARVESTED	October 28	October 23	October 20
SOIL TYPE	Parkhill Loam	Parkhill Loam	Parkhill Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,800	21,200	21,100
ROWS	30"	30"	30"
FERTILIZER	157-69-90	145-65-185	155-91-181
SOIL TEST: pH	6.2	6.2	6.5
P	175(very high)	144(very high)	128(very high)
K	304(very high)	286(very high)	194(medium)

FARM COOPERATOR: Ray Orchard, Applegate

COUNTY EXTENSION DIRECTOR: Rex Sieting, Sandusky

TABLE 14

NORTH CENTRAL MICHIGAN ZONE 3  
Sanilac County Trial - Silage  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1985	2 YR	3 YR	1985	2 YR	3 YR	1985	2 YR	3 YR
STANTON SX90	52.9	48.8	43.9	8.9	10.4	12.0	4.7	5.0	5.1
P-A-G SX123	52.6	--	--	11.0	--	--	5.8	--	--
KING K2204	52.4	45.6	41.9	12.4	12.5	13.8	6.5	5.7	5.6
GLENN & GARNO GX904	52.3	--	--	10.7	--	--	5.6	--	--
CALLAHAN 18460X	52.3	--	--	12.4	--	--	6.5	--	--
STAUFFER SEEDS S2206	52.1	--	--	10.7	--	--	5.6	--	--
GREAT LAKES GL-422	52.1	45.6	41.0	11.3	12.9	14.5	6.1	5.9	5.8
ANDERSONS PSX-93	51.7	42.9	39.8	9.8	13.4	14.6	5.1	5.4	5.5
GRIES X219	51.4	--	--	10.2	--	--	5.3	--	--
CALLAHAN C728	50.5	44.6	--	9.4	12.1	--	4.7	5.2	--
GARNO S-90	49.7	42.4	39.2	12.6	14.1	15.2	6.2	5.7	5.7
PAYCO SX620	49.7	43.0	39.3	10.4	12.9	14.5	5.1	5.3	5.4
DAIRYLAND DX1096	49.5	41.6	38.3	13.8	14.1	16.6	6.8	5.8	6.2
STAUFFER SEEDS S3303	48.2	--	--	12.2	--	--	5.9	--	--
VORIS EXP. 0100	47.2	--	--	11.9	--	--	5.5	--	--

TABLE 14 (CONTINUED) NORTH CENTRAL MICHIGAN  
Sanilac County Trial - Silage  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% DRY MATTER		TONS PER ACRE						
	1985	2 YR	3 YR	GREEN WEIGHT			DRY WEIGHT		
				1985	2 YR	3 YR	1985	2 YR	3 YR
CARGILL 829	46.9	40.7	--	13.4	14.8	--	6.3	5.9	--
PIONEER 3901	46.7	41.2	37.9	15.9	15.9	18.4	7.4	6.5	6.8
STANTON SX95	46.5	41.4	38.9	12.0	13.8	15.2	6.3	6.0	6.0
SUPER CROST 1940	46.4	40.5	36.8	14.6	15.6	17.7	6.8	6.3	6.3
CARDINAL 2820	46.2	40.1	--	11.2	13.9	--	5.2	5.4	--
-----									
GOLDEN HARVEST H-2344	46.0	--	--	13.5	--	--	6.3	--	--
PIONEER 3747	45.9	39.0	36.0	16.0	16.4	17.3	7.4	6.4	6.2
GREAT LAKES GL-498	45.8	--	--	15.3	--	--	7.0	--	--
CUSTOM CFS W3857	45.8	--	--	15.3	--	--	7.0	--	--
CUSTOM CFS W3551	45.6	--	--	13.5	--	--	6.2	--	--
-----									
JACQUES JX97	45.5	39.9	36.9	14.8	16.3	17.1	6.8	6.5	6.2
PIONEER 3779	45.3	--	--	14.4	--	--	7.5	--	--
GLENN & GARNO GX902	44.8	--	--	14.1	--	--	6.3	--	--
GREAT LAKES GL-414	44.7	--	--	12.5	--	--	5.6	--	--
P-A-G SX180	44.6	37.4	--	12.8	14.9	--	5.7	5.4	--
-----									
DAIRYLAND DX1097	44.3	39.0	--	12.6	14.4	--	5.6	5.5	--
DAIRYLAND DST10007	44.1	--	--	14.0	--	--	6.1	--	--
AGRIPRO HP266	43.9	--	--	15.8	--	--	6.9	--	--
P-A-G SX182	43.6	--	--	16.6	--	--	7.2	--	--
PIONEER 3737	43.6	38.2	--	15.2	17.0	--	6.6	6.4	--
-----									
ASGROW/O'S GOLD 2330	43.6	40.1	36.8	16.4	16.7	17.9	7.1	6.6	6.5
GLENN & GARNO GX920	43.6	--	--	12.2	--	--	5.3	--	--
AGRIPRO AP339	43.3	--	--	12.6	--	--	5.5	--	--
CUSTOM CFS W3759	43.2	--	--	13.4	--	--	5.8	--	--
FUNK G-4256	43.1	37.7	35.1	15.7	16.6	18.9	6.7	6.2	6.4
-----									
FUNK 2033X	42.1	--	--	16.8	--	--	7.1	--	--
KING K416	42.0	--	--	16.0	--	--	6.7	--	--
STAUFFER SEEDS S3306	41.0	39.6	--	13.3	14.9	--	5.5	5.9	--
DAIRYLAND DX1001	41.0	37.2	--	18.1	17.3	--	7.5	6.5	--
AGRIPRO AP244	40.9	--	--	14.6	--	--	6.0	--	--
-----									
CARDINAL 3222	40.8	37.6	--	14.8	16.9	--	6.1	6.3	--
WOLVERINE W130	40.8	--	--	16.2	--	--	6.6	--	--
STANTON SX100	40.5	35.9	33.8	17.8	17.3	17.2	7.2	6.2	5.8
GREAT LAKES GL-437	40.4	--	--	15.8	--	--	6.4	--	--
CARGILL 842	40.4	--	--	16.1	--	--	6.5	--	--
-----									
FUNK G-4211	40.2	35.5	--	16.4	15.9	--	6.6	5.7	--
PRIDE 3376	40.2	--	--	17.4	--	--	7.0	--	--
PICKSEED 5575	40.2	--	--	18.6	--	--	7.5	--	--
JACQUES EXP.4098	40.0	--	--	15.7	--	--	6.3	--	--
DAIRYLAND DX1003	39.9	38.4	36.1	14.3	15.5	16.5	5.7	5.9	5.9
-----									
PRIDE 4422	39.8	35.3	--	15.2	17.0	--	6.0	5.9	--
GREAT LAKES GL-487	39.7	36.2	34.3	17.5	16.8	17.4	6.9	6.1	5.9
GLENN & GARNO GX906	39.7	--	--	16.1	--	--	6.4	--	--
DEKALB-PFIZER DK524	39.6	--	--	16.2	--	--	6.5	--	--
SUPER CROST 2288	39.6	36.3	--	16.0	18.0	--	6.3	6.5	--
-----									
WOLVERINE W168	39.6	--	--	13.8	--	--	5.5	--	--
STAUFFER SEEDS S4454WX	39.5	--	--	16.1	--	--	6.4	--	--
FUNK G-4342	39.5	34.8	33.8	17.5	17.0	18.9	6.9	5.9	6.3
GREAT LAKES GL-490	39.5	35.4	--	16.6	16.6	--	6.6	5.9	--
WOLVERINE W164	39.5	--	--	15.5	--	--	6.2	--	--

TABLE 14 (CONTINUED) NORTH CENTRAL MICHIGAN  
Sanilac County Trial - Silage  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

	1985	1984	1983
PLANTED	May 2	May 4	May 13
HARVESTED	September 19	September 19	September 19
SOIL TYPE	Linwood loam	Linwood loam	Linwood Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,800	21,700	21,000
ROWS	30"	30"	30"
FERTILIZER	214-138-180	175-125-120	184-96-228
SOIL TEST: pH	7.6	7.0	6.8
P	177 (very high)	201 (very high)	208 (very high)
K	391 (very high)	581 (very high)	446 (very high)
FARM COOPERATOR: Charles Cork, Peck			
COUNTY EXTENSION DIRECTOR: Rex Sieting, Sandusky			

TABLE 15 NORTH CENTRAL MICHIGAN  
Saginaw County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2 YR	3 YR	1985	2 YR	3 YR	1985	2 YR	3 YR
STANTON SX90	19.8	21	21	88.3	99	114	2.2	3	3
CARDINAL 2820	20.0	22	--	94.7	121	--	2.4	3	--
PIONEER 3779	20.0	--	--	88.2	--	--	0.0	--	--
VORIS EXP.0100	20.0	--	--	89.3	--	--	0.0	--	--
AGRIPRO AP244	20.1	--	--	103.5	--	--	0.7	--	--
-----									
ANDERSONS PSX-93	20.1	22	22	83.7	105	116	1.4	3	3
GLENN & GARNO GX902	20.2	--	--	86.9	--	--	0.0	--	--
PIONEER 3901	20.3	--	--	101.1	--	--	2.1	--	--
GLENN & GARNO GX904	20.3	--	--	85.6	--	--	0.7	--	--
DEKALB-PFIZER DK461	20.4	--	--	107.2	--	--	2.2	--	--
-----									
KING K416	20.4	--	--	95.7	--	--	0.0	--	--
KING K2204	20.4	22	--	89.2	106	--	0.0	2	--
DAIRYLAND DX1097	20.4	22	--	117.3	124	--	0.0	0	--
BO-JAC 1225	20.5	--	--	115.9	--	--	0.0	--	--
PAYCO SX500	20.5	--	--	107.0	--	--	0.0	--	--
-----									
PICKSEED 5575	20.5	--	--	114.9	--	--	0.0	--	--
GREAT LAKES GL-414	20.6	--	--	110.3	--	--	0.0	--	--
DAIRYLAND DX1096	20.6	23	--	105.4	127	--	1.5	4	--
GLENN & GARNO GS900	20.6	--	--	109.0	--	--	1.5	--	--
CARDINAL 3222	20.7	23	--	116.6	136	--	4.5	4	--
-----									
RENK RK17A	20.7	--	--	106.5	--	--	0.0	--	--
DAIRYLAND DX1003	20.8	23	23	88.0	111	120	4.9	4	6
GREAT LAKES GL-487	20.9	24	23	112.6	137	141	1.5	3	3
GOLDEN HARVEST H-2344	20.9	--	--	94.8	--	--	3.0	--	--
SOHIGRO S-29	20.9	--	--	119.8	--	--	1.4	--	--
-----									
RUPP XR1602	21.0	--	--	89.3	--	--	0.0	--	--
GLENN & GARNO GX906	21.1	--	--	93.3	--	--	0.0	--	--
BO-JAC 1210	21.2	--	--	115.4	--	--	0.7	--	--
*PAYCO SX620	21.2	23	23	122.2	131	131	3.8	5	5
STAUFFER SEEDS S3303	21.3	--	--	106.0	--	--	2.3	--	--

GREAT LAKES GL-540	38.9	--	--	16.2	--	--	6.3	--	--
CARGILL 874	38.7	--	--	17.8	--	--	6.9	--	--
PRIDE 4474	38.5	--	--	15.5	--	--	6.0	--	--
DAIRYLAND DST9504	38.4	--	--	14.8	--	--	5.7	--	--
STAUFFER SEEDS S4402	38.0	36.2	34.7	15.3	16.3	17.7	5.8	5.9	6.1

PIONEER 3744	38.0	35.5	32.8	16.7	16.7	18.3	6.4	5.9	5.9
ANDERSONS QSX-95	37.9	--	--	15.4	--	--	5.8	--	--
FUNK G-4217	37.6	--	--	18.0	--	--	6.8	--	--
FUNK G-4312	37.3	36.0	--	16.1	16.0	--	6.0	5.7	--
AGRIPRO AP412	37.2	--	--	17.5	--	--	6.5	--	--

GREAT LAKES GL-516	37.1	34.6	--	17.2	18.9	--	6.4	6.5	--
DAIRYLAND DX1006	37.1	34.9	33.2	16.0	17.7	17.5	5.9	6.1	5.8
STAUFFER SEEDS S4414	36.9	--	--	16.5	--	--	6.1	--	--
FUNK G-4326	36.9	33.7	--	13.8	14.7	--	5.1	4.9	--
GLENN & GARNO GX960	36.9	--	--	13.5	--	--	5.0	--	--

AGRIPRO HP277	36.8	--	--	14.5	--	--	5.3	--	--
GOLDEN HARVEST EX590	36.8	--	--	17.2	--	--	6.4	--	--
P-A-G SX175	36.6	34.9	--	16.2	17.7	--	5.9	6.1	--
STAUFFER SEEDS S5340	36.5	33.2	--	19.9	19.7	--	7.3	6.6	--
ANDERSONS PSX-108	36.3	--	--	17.8	--	--	6.5	--	--

DAIRYLAND DX1105	35.8	32.8	31.4	17.1	16.7	18.3	6.2	5.5	5.7
GREAT LAKES GL-579	35.6	32.3	--	19.5	19.5	--	7.0	6.3	--
ASGROW/O'S GOLD RX480	35.4	33.1	--	17.9	17.5	--	6.3	5.8	--
DAIRYLAND DX1102	35.4	--	--	14.1	--	--	5.0	--	--
CALLAHAN C754	35.0	--	--	18.8	--	--	6.6	--	--

SUPER CROST 2989	34.5	32.7	--	22.3	21.7	--	7.7	7.1	--
VORIS V2451	34.4	31.0	29.7	14.8	19.1	20.0	5.1	5.8	5.8
ANDERSONS PSX-100	34.3	33.4	--	19.1	17.9	--	6.5	6.0	--
GLENN & GARNO GX1007	34.3	--	--	19.2	--	--	6.6	--	--
KING K4422	34.2	33.4	32.7	15.8	16.6	19.1	5.4	5.5	6.2

GREAT LAKES 5922	34.2	31.9	30.8	21.4	21.7	22.7	7.3	6.9	6.9
ANDERSONS PSX-105	33.9	30.9	30.5	16.6	20.3	22.3	5.6	6.1	6.7
AGRIPRO AP391	33.7	--	--	16.2	--	--	5.4	--	--
GARNO S-100X	32.8	32.9	--	22.4	21.2	--	7.3	6.9	--
STAUFFER SEEDS S5750	31.7	--	--	20.5	--	--	6.5	--	--

CARGILL HS50A	31.6	--	--	19.1	--	--	6.0	--	--
STAUFFER SEEDS S5650	31.4	29.2	28.6	23.1	21.7	22.6	7.2	6.3	6.4
CARDINAL SX112	31.0	--	--	17.1	--	--	5.3	--	--
KING K5574	30.1	--	--	19.8	--	--	6.0	--	--
GOLDEN HARVEST H2572	29.3	28.4	--	25.1	23.2	--	7.4	6.6	--

AGRIPRO HP401	29.2	--	--	17.7	--	--	5.2	--	--
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AVERAGE	40.5	37.1	35.7	15.4	16.6	17.5	6.2	6.0	6.0
RANGE	29.2	28.4	28.6	8.9	10.4	12.0	4.7	4.9	5.1
	52.9	48.8	43.9	25.1	23.2	22.7	7.7	7.1	6.9

LEAST SIGNIFICANT DIFFERENCE	3.4	2.5	1.7	2.0	1.5	1.1	0.8	0.6	0.5
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FUNK 2033X	21.3	--	--	89.4	--	--	0.0	--	--
*GARNO S-95X	21.3	--	--	125.9	--	--	1.4	--	--
P-A-G SX180	21.3	24	--	119.9	129	--	1.4	2	--
AGRIPRO AP339	21.3	--	--	98.8	--	--	0.0	--	--
STANTON SX95	21.3	24	23	120.3	130	130	0.8	2	2

BO-JAC 117E	21.4	--	--	99.5	--	--	0.8	--	--
CARGILL 829	21.4	24	--	100.1	120	--	0.0	3	--
DEKALB-PFIZER DK524	21.5	--	--	113.0	--	--	0.0	--	--
PIONEER 3737	21.5	24	--	99.5	125	--	2.2	5	--
STAUFFER SEEDS S4402	21.6	--	--	118.0	--	--	1.5	--	--

GREAT LAKES GL-437	21.6	--	--	111.4	--	--	1.4	--	--
JACQUES 5400	21.8	25	--	111.4	131	--	0.0	2	--
*AGRIPRO HP266	21.8	--	--	126.2	--	--	0.7	--	--
*GREAT LAKES GL-498	21.9	--	--	123.1	--	--	0.0	--	--
*SELECT 3100	21.9	25	--	121.3	141	--	0.7	2	--

*RENK RK19	21.9	24	--	124.6	147	--	0.0	1	--
DEKALB-PFIZER DK505	22.0	--	--	98.6	--	--	0.0	--	--
DEKALB-PFIZER DK484	22.0	25	25	115.7	133	135	0.0	2	2
JACQUES JX97	22.0	24	--	102.3	126	--	1.5	1	--
P-A-G SX239	22.0	25	25	106.6	129	129	2.2	2	6

*PIONEER 3744	22.0	24	24	121.6	134	143	0.7	1	1
DAIRYLAND DX1001	22.0	25	--	112.0	118	--	0.7	4	--
STAUFFER SEEDS S4414	22.1	--	--	101.6	--	--	1.5	--	--
STAUFFER SEEDS S3306	22.1	24	--	114.6	135	--	0.7	1	--
GREAT LAKES GL-540	22.1	--	--	111.5	--	--	0.0	--	--

*NORTHROP KING PX9353	22.1	24	24	132.8	147	147	0.0	1	1
P-A-G SX182	22.1	--	--	98.1	--	--	2.9	--	--
PIONEER 3747	22.1	24	24	116.8	141	150	0.0	3	3
KING K4422	22.1	24	24	103.0	125	134	0.7	2	2
CARGILL 839	22.1	--	--	95.2	--	--	0.0	--	--

GLENN & GARNO GX920	22.1	--	--	87.5	--	--	1.4	--	--
AGRIPRO HP277	22.2	--	--	112.2	--	--	0.0	--	--
ASGROW/O'S GOLD RX480	22.3	25	--	119.0	127	--	1.5	1	--
RENK R148	22.3	--	--	118.0	--	--	0.0	--	--
GRIES X219	22.4	--	--	89.0	--	--	2.3	--	--

NORTHROP KING PX9290	22.4	24	--	88.5	117	--	0.0	1	--
*SOHIGRO S-28	22.4	--	--	129.4	--	--	1.5	--	--
*PRIDE 4422	22.5	--	--	123.4	--	--	0.0	--	--
*CARGILL 859	22.5	--	--	130.3	--	--	0.0	--	--
*SOHIGRO S-25	22.5	--	--	129.9	--	--	0.7	--	--

*CALLAHAN C747	22.5	--	--	124.0	--	--	0.0	--	--
STAUFFER SEEDS S4454WX	22.6	--	--	94.1	--	--	1.5	--	--
NORTHROP KING PX9345	22.6	--	--	118.9	--	--	2.1	--	--
*CARGILL 861	22.6	25	--	128.5	133	--	0.0	3	--
DAIRYLAND DX1105	22.6	26	25	98.1	128	141	0.0	3	3

DAIRYLAND DX1102	22.6	--	--	93.1	--	--	1.5	--	--
MFI-1855	22.6	--	--	88.3	--	--	0.0	--	--
SUPER CROST 2288	22.7	--	--	105.6	--	--	1.4	--	--
CARGILL 842	22.7	--	--	94.5	--	--	1.5	--	--
STANTON SX100	22.7	25	24	99.1	116	125	0.0	2	2

TABLE 15 (CONTINUED) NORTH CENTRAL MICHIGAN  
Saginaw County Trial  
ZONE 3  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	YR
SOHIGRO S-32	22.7	--	--	100.5	--	--	1.5	--	--
FUNK G-4312	23.0	--	--	105.9	--	--	0.7	--	--
RENK RK25	23.2	26	--	106.0	128	--	0.0	2	--
AGRIPRO AP391	23.3	--	--	113.3	--	--	0.7	--	--
PRIDE 3376	23.3	--	--	115.5	--	--	0.0	--	--
MFI-1834	23.3	--	--	120.0	--	--	0.0	--	--
STAUFFER SEEDS S5340	23.4	25	--	110.8	131	--	0.0	1	--
*NORTHTRUP KING PX9410	23.4	--	--	129.4	--	--	0.0	--	--
*ANDERSONS PSX-100	23.4	26	--	129.6	129	--	0.0	2	--
GLENN & GARNO GX960	23.4	--	--	98.5	--	--	2.2	--	--
*FUNK G-4342	23.5	26	25	131.2	137	134	2.2	5	5
*GREAT LAKES GL-547	23.5	26	26	121.7	143	149	0.0	1	2
*SELECT 3720	23.5	26	--	123.7	145	--	0.0	2	--
GOLDEN HARVEST H-2424	23.5	25	--	111.4	128	--	0.0	2	--
AGRIPRO HP401	23.6	--	--	114.0	--	--	1.5	--	--
*GLENN & GARNO GX1007	24.0	--	--	123.8	--	--	0.0	--	--
*PRIDE 4474	24.1	--	--	126.8	--	--	0.0	--	--
PAYCO SX710	24.1	--	--	88.4	--	--	0.0	--	--
FUNK 3066X	24.2	--	--	89.0	--	--	0.0	--	--
RUPP XR1639	24.2	--	--	107.1	--	--	0.7	--	--
KING K5574	24.3	--	--	114.5	--	--	2.8	--	--
MFI-1776	24.3	27	--	113.1	140	--	1.3	3	--
*GREAT LAKES GL-579	24.4	27	--	125.0	138	--	0.0	0	--
NORTHTRUP KING PX9242	24.4	26	--	108.9	131	--	0.8	1	--
*FUNK G-4326	24.5	27	--	127.0	143	--	0.0	1	--
DAIRYLAND DST9504	24.5	--	--	97.9	--	--	1.4	--	--
RENK RK64	24.5	26	--	113.5	137	--	0.0	1	--
*VORIS V2451	24.5	28	27	128.7	143	147	0.7	1	2
RUPP XR1707	24.6	--	--	105.2	--	--	0.0	--	--
RUPP XR1690	24.6	--	--	101.4	--	--	0.7	--	--
VORIS V2471	24.6	--	--	118.2	--	--	0.0	--	--
SUPER CROST 2989	24.8	--	--	110.0	--	--	0.7	--	--
*DAIRYLAND DX1006	24.8	26	26	123.1	136	133	1.5	4	4
RENK RK66	24.8	28	27	90.1	118	139	1.4	1	0
CALLAHAN C754	24.9	--	--	84.2	--	--	0.7	--	--
SELECT 4701	25.0	--	--	84.0	--	--	1.5	--	--
CARDINAL SX112	25.2	--	--	109.9	--	--	2.9	--	--
DAIRYLAND DX1107	25.3	27	--	118.7	138	--	0.7	1	--
FARMERS FCC251	25.3	28	27	108.0	140	152	0.0	1	1
*GOLDEN HARVEST EX590	25.4	--	--	128.7	--	--	0.7	--	--
GREAT LAKES 5922	25.4	27	27	119.1	139	151	0.8	0	1
GOLDEN HARVEST EX530	25.6	--	--	117.7	--	--	0.0	--	--
RENK RK60	25.7	27	26	109.1	132	132	0.0	1	1
ASGROW/O'S GOLD 1170A	25.7	28	27	111.0	126	139	0.0	1	1
DAIRYLAND DST10007	25.9	--	--	90.3	--	--	0.0	--	--
*ANDERSONS PSX-105	26.0	28	27	121.3	139	150	2.9	2	2
FARMERS FCC5198	26.0	--	--	104.5	--	--	0.0	--	--
FARMERS FCC224A	26.0	27	27	112.0	141	142	0.7	2	3
STAUFFER SEEDS S5650	26.1	28	27	109.3	133	143	0.0	2	2
SELECT 3300	26.3	28	--	113.2	137	--	0.8	1	--

TABLE 16 (CONTINUED) NORTH CENTRAL MICHIGAN  
Huron County Trial - Grain  
ZONE 3  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	YR
*GREAT LAKES GL-422	20.8	23	25	162.9	148	136	1.5	2	1
KING K2204	20.8	24	25	133.9	128	115	0.0	0	0
*PIONEER 3901	20.9	24	26	161.2	144	137	1.4	2	2
ANDERSONS PSX-93	20.9	24	25	109.1	119	119	0.7	1	1
PAYCO SX620	20.9	24	26	142.5	127	122	4.0	3	2
GREAT LAKES GL-414	21.0	--	--	141.4	--	--	2.2	--	--
STANTON SX95	21.0	24	26	132.3	131	119	0.7	1	1
SOHIGRO S-17	21.0	--	--	125.1	--	--	1.4	--	--
P-A-G SX123	21.1	--	--	141.3	--	--	0.7	--	--
GLENN & GARNO GX902	21.1	--	--	128.2	--	--	5.8	--	--
SUPER CROST 1940	21.2	25	27	118.0	129	122	0.0	3	2
GARNO S-91X	21.2	--	--	119.4	--	--	2.1	--	--
RENK RK17A	21.2	--	--	118.9	--	--	0.7	--	--
P-A-G SX180	21.3	25	--	147.9	138	--	0.0	0	--
ANDERSONS QSX-90	21.4	--	--	118.8	--	--	10.1	--	--
*GOLDEN HARVEST H-2344	21.4	--	--	168.0	--	--	0.0	--	--
STAUFFER SEEDS S3306	21.5	25	26	128.3	124	120	0.7	2	2
DEKALB-PFIZER DK461	21.5	--	--	140.4	--	--	2.9	--	--
GLENN & GARNO GX920	21.5	--	--	156.7	--	--	0.7	--	--
WOLVERINE W166	21.6	24	27	127.0	132	132	1.4	2	1
P-A-G SX182	21.6	--	--	154.7	--	--	1.5	--	--
PAYMASTER 1990	21.6	25	26	120.3	133	121	0.7	1	1
FUNK 1011X	21.7	24	--	125.5	114	--	1.4	1	--
SOHIGRO S-25	21.7	24	27	157.6	143	128	3.5	4	3
P-A-G SX175	21.9	26	--	155.5	148	--	1.4	1	--
PAYMASTER 1690	22.1	--	--	126.1	--	--	1.4	--	--
*PIONEER 3737	22.2	26	--	170.6	161	--	0.7	1	--
*SELECT 3100	22.2	--	--	167.1	--	--	1.5	--	--
KING K4422	22.3	26	--	157.7	157	--	0.0	1	--
NORTHTRUP KING PX9242	22.4	25	--	133.9	131	--	0.7	1	--
DAIRYLAND DX1001	22.4	26	--	148.3	145	--	2.2	3	--
*ASGROW/O'S GOLD 2330	22.5	--	--	170.1	--	--	0.7	--	--
CARGILL 829	22.6	24	--	133.4	136	--	2.1	2	--
DAIRYLAND DX1003	22.6	26	28	147.2	149	134	3.8	2	2
ASGROW/O'S GOLD RX480	22.7	26	--	155.8	149	--	0.0	1	--
*GREAT LAKES GL-487	22.9	25	27	162.0	157	145	0.0	1	1
PRIDE 4422	23.0	27	--	151.0	148	--	0.7	1	--
GLENN & GARNO GX906	23.0	--	--	128.3	--	--	0.7	--	--
JACQUES EXP.4098	23.3	--	--	122.5	--	--	0.7	--	--
*PIONEER 3744	23.3	26	27	160.0	154	152	0.7	2	2
CARGILL 842	23.3	--	--	143.5	--	--	0.0	--	--
WOLVERINE X1102A	23.4	--	--	125.1	--	--	1.4	--	--
GLENN & GARNO GX960	23.4	--	--	157.4	--	--	0.0	--	--
GREAT LAKES GL-437	23.6	--	--	135.9	--	--	0.0	--	--
*NORTHTRUP KING PX9345	23.6	--	--	165.9	--	--	1.4	--	--
SOHIGRO S-29	23.7	25	26	137.4	137	130	2.9	1	2
*FUNK G-4312	23.8	26	--	169.0	154	--	0.0	15	--
GREAT LAKES GL-498	23.8	--	--	158.1	--	--	1.4	--	--
WOLVERINE X197	23.8	--	--	140.1	--	--	1.4	--	--
KING K416	23.8	--	--	138.4	--	--	1.4	--	--



AGRIPRO AP412	26.7	--	--	91.2	--	--	0.7	--	--
BO-JAC 381	26.7	--	--	99.0	--	--	1.5	--	--
*ASGROW/O'S GOLD 6880	26.7	28	27	121.3	132	138	0.0	5	6
RENK RK76	26.8	--	--	109.0	--	--	0.0	--	--
GOLDEN HARVEST H-2480	27.3	28	27	111.7	130	142	1.5	2	1
-----									
AVERAGE	22.8	25	25	108.2	131	137	0.8	2	3
-----									
RANGE	19.8	21	21	83.7	99	114	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.3	28	27	132.8	147	152	4.9	5	6
-----									
LEAST SIGNIFICANT DIFFERENCE	1.7	1.1	0.9	12.3	9	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

		1985	1984	1983
PLANTED		May 3	May 9	May 11
HARVESTED		November 6	October 25	October 21
SOIL TYPE		Parkhill loam	Parkhill loam	Parkhill loam
PREVIOUS CROP		Sugar beets	Sugar beets	Sugar beets
POPULATION		21,800	21,200	21,100
ROWS		30"	30"	30"
FERTILIZER		214-66-162	244-79-161+Zn+S	244-96-246
SOIL TEST: pH		7.4	7.3	7.2
P		111(very high)	123(very high)	383(very high)
K		551(very high)	372(very high)	438(very high)

FARM COOPERATOR: Reinbold Farms, Reese

COUNTY AGRICULTURAL AGENT: Steve Poindexter, Saginaw

TABLE 16 NORTH CENTRAL MICHIGAN HURON COUNTY TRIAL - GRAIN ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983 ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	2	3	3	2	3	3	2	3	
	1985	YR	YR	1985	YR	YR	1985	YR	YR
STANTON SX90	19.6	22	24	102.3	108	110	8.0	5	3
SOHIGRO S-15	20.0	--	--	119.0	--	--	2.9	--	--
CARDINAL 2820	20.1	--	--	131.9	--	--	2.2	--	--
STAUFFER SEEDS S2206	20.1	--	--	127.4	--	--	1.4	--	--
WOLVERINE W153	20.1	--	--	121.2	--	--	0.7	--	--
-----									
PAYCO SX500	20.1	--	--	132.0	--	--	0.7	--	--
GLENN & GARNO GX904	20.2	--	--	129.3	--	--	1.4	--	--
DAIRYLAND DX1096	20.4	23	25	131.4	120	115	2.2	1	1
STAUFFER SEEDS S3303	20.5	--	--	146.1	--	--	2.1	--	--
WOLVERINE W193	20.5	--	--	129.9	--	--	3.1	--	--
-----									
DAIRYLAND DX1097	20.5	23	--	137.8	127	--	2.8	7	--
CARDINAL 3222	20.6	24	--	126.8	131	--	3.5	3	--
GRIES X219	20.6	--	--	108.2	--	--	3.1	--	--
WOLVERINE X198	20.7	--	--	156.8	--	--	2.1	--	--
PIONEER 3779	20.7	--	--	152.2	--	--	0.0	--	--

STAUFFER SEEDS S4402	23.9	26	28	155.2	152	135	0.7	0	0
*PRIDE 3376	23.9	--	--	166.8	--	--	0.0	--	--
CARGILL 859	24.0	--	--	154.2	--	--	2.9	--	--
PICKSEED 5575	24.0	--	--	148.1	--	--	1.4	--	--
STAUFFER SEEDS S4454WX	24.1	--	--	144.2	--	--	1.4	--	--
-----									
*RENK R148	24.1	--	--	165.7	--	--	0.0	--	--
*DEKALB-PFIZER DK524	24.2	--	--	171.5	--	--	3.0	--	--
STAUFFER SEEDS S4414	24.3	--	--	158.9	--	--	0.0	--	--
DAIRYLAND DST10007	24.3	--	--	134.8	--	--	3.6	--	--
*FUNK G-4256	24.4	26	27	160.9	154	134	0.0	1	1
-----									
SOHIGRO S-28	24.4	--	--	140.4	--	--	0.7	--	--
FUNK G-4211	24.5	26	--	134.2	129	--	2.6	4	--
PIONEER 3747	24.6	26	28	143.9	146	144	0.8	1	1
BETA SEED KH391	24.6	--	--	155.4	--	--	0.7	--	--
*STANTON SX100	24.6	28	29	167.8	148	133	2.1	2	1
-----									
*DAIRYLAND DX1006	24.7	27	28	168.0	146	129	2.1	4	3
DAIRYLAND DST9504	24.8	--	--	118.8	--	--	4.3	--	--
RENK RK19	24.8	--	--	134.2	--	--	0.0	--	--
JACQUES JX77	24.9	27	--	140.4	138	--	0.0	0	--
WOLVERINE W164	24.9	--	--	138.1	--	--	2.1	--	--
-----									
*SUPER CROST 2288	25.0	--	--	162.3	--	--	0.0	--	--
*RENK RK25	25.0	--	--	160.1	--	--	3.5	--	--
SOHIGRO S-39	25.0	28	30	134.5	133	133	1.4	1	1
DEKALB-PFIZER DK484	25.1	28	29	150.7	150	137	0.7	2	1
SUPER CROST 2410	25.2	28	29	154.6	152	141	3.0	3	2
-----									
PRIDE 4474	25.2	--	--	138.6	--	--	0.0	--	--
FUNK G-4342	25.3	27	28	152.6	151	142	0.0	0	0
*FUNK G-4326	25.3	28	--	166.8	156	--	0.0	0	--
RENK RK66	25.3	--	--	125.2	--	--	0.7	--	--
GREAT LAKES GL-516	25.5	27	28	157.6	157	140	0.7	0	1
-----									
SELECT 2747	25.5	--	--	141.9	--	--	0.0	--	--
CARGILL 874	25.5	--	--	158.0	--	--	0.0	--	--
*DAIRYLAND DX1102	25.6	--	--	162.0	--	--	0.7	--	--
STAUFFER SEEDS S5750	25.7	--	--	144.0	--	--	0.0	--	--
GREAT LAKES GL-540	25.7	--	--	145.7	--	--	0.7	--	--
-----									
SOHIGRO S-35	25.8	28	29	137.7	143	126	0.8	0	1
SELECT 3300	26.0	--	--	152.8	--	--	1.4	--	--
ANDERSONS PSX-100	26.0	28	--	151.9	138	--	0.0	0	--
*SELECT 3720	26.1	--	--	169.1	--	--	0.0	--	--
GREAT LAKES GL-579	26.2	29	29	152.1	148	137	0.0	0	1
-----									
MFI-1855	26.2	--	--	132.0	--	--	0.8	--	--
*CARDINAL SX112	26.3	--	--	161.9	--	--	0.7	--	--
DEKALB-PFIZER DK505	26.4	--	--	146.3	--	--	1.4	--	--
MFI-1834	26.4	--	--	153.8	--	--	0.8	--	--
GOLDEN HARVEST H-2480	26.5	--	--	134.8	--	--	0.7	--	--
-----									
*GREAT LAKES 5922	26.5	28	29	160.4	157	152	0.0	1	1
ANDERSONS PSX-105	26.7	29	30	150.9	133	120	2.1	3	2
MFI-1776	26.8	29	--	142.9	152	--	0.0	0	--
KING K5574	27.0	--	--	137.3	--	--	0.0	--	--
RENK RK64	27.1	--	--	151.0	--	--	0.0	--	--
-----									
STAUFFER SEEDS S5650	27.2	29	30	131.9	140	139	2.2	2	2
STAUFFER SEEDS S5340	27.2	29	--	129.5	136	--	1.4	1	--
KING K4484	27.2	--	--	153.0	--	--	0.7	--	--
DAIRYLAND DX1107	27.2	29	--	154.3	147	--	0.7	1	--
*RENK RK60	27.2	--	--	161.3	--	--	1.5	--	--

TABLE 16 (CONTINUED) NORTH CENTRAL MICHIGAN ZONE 3  
 Huron County Trial - Grain  
 ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	YR
GREAT LAKES GL-599	27.4	--	--	150.0	--	--	0.7	--	--
RENK RK76	27.8	--	--	152.5	--	--	0.0	--	--
GREAT LAKES GL-608	28.0	30	--	156.5	145	--	0.7	1	--
GOLDEN HARVEST H-2572	28.2	30	--	156.0	145	--	0.0	0	--
STAUFFER SEEDS S6707WX	29.2	--	--	156.9	--	--	0.0	--	--
STAUFFER SEEDS S7759	30.3	--	--	151.6	--	--	0.0	--	--
CARGILL HS50A	30.6	--	--	103.6	--	--	7.6	--	--
AVERAGE	23.7	26	27	145.1	141	131	1.3	2	1
RANGE	19.6 TO 30.6	22 TO 30	24 TO 30	102.3 TO 171.5	108 TO 161	110 TO 152	0.0 TO 10.1	0 TO 15	0 TO 3
LEAST SIGNIFICANT DIFFERENCE	1.9	1.4	0.9	13.8	9	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	May 2	May 4	May 13
HARVESTED	October 29	October 24	October 21
SOIL TYPE	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
PREVIOUS CROP	corn	corn	corn
POPULATION	21,500	20,700	20,600
ROWS	30"	30"	30"
FERTILIZER	197-63-129	234-123-18	204-94-114
SOIL TEST: pH	7.6	7.0	6.9
	P 85 (high)	158 (very high)	128 (very high)
	K 180 (medium)	424 (very high)	382 (very high)

FARM COOPERATOR: William McCrea, Bad Axe

COUNTY EXTENSION DIRECTOR: Jim LeCureux, Bad Axe (1985, 1984);  
 Lee Warschefsky, Bad Axe (1983)

TABLE 17 NORTH CENTRAL MICHIGAN ZONE 3  
 Huron County Trial- Silage  
 ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	YR
SOHIGRO S-15	55.7	--	--	10.8	--	--	6.0	--	--
STAUFFER SEEDS S2206	55.6	--	--	11.9	--	--	6.6	--	--
P-A-G SX123	53.4	--	--	12.4	--	--	6.6	--	--
ANDERSONS QSX-90	53.0	--	--	11.7	--	--	6.2	--	--
PAYCO SX500	52.7	--	--	13.4	--	--	7.1	--	--
KING K2204	52.5	45.8	41.8	12.0	13.6	14.1	6.3	6.1	5.8
STANTON SX90	52.5	42.5	39.5	10.5	14.0	15.5	5.5	5.6	5.8
STAUFFER SEEDS S3303	52.3	--	--	13.4	--	--	7.0	--	--
STAUFFER SEEDS S3306	52.2	41.9	38.5	13.1	15.3	14.7	6.8	6.1	5.5
GLENN & GARNO GX904	51.7	--	--	10.5	--	--	5.4	--	--

TABLE 17 (CONTINUED) NORTH CENTRAL MICHIGAN ZONE 3  
 Huron County Trial- Silage  
 ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	YR
JACQUES EXP. 4098	40.0	--	--	17.8	--	--	7.1	--	--
SUPER CROST 2288	39.9	--	--	18.1	--	--	7.2	--	--
NORTHROP KING PX9345	39.8	--	--	19.1	--	--	7.6	--	--
PAYMASTER 1690	39.7	--	--	17.4	--	--	6.9	--	--
DAIRYLAND DX1006	39.7	34.2	33.2	18.0	20.6	19.8	7.1	6.9	6.5
PRIDE 4474	39.6	--	--	15.8	--	--	6.3	--	--
P-A-G SX175	39.5	35.9	--	17.8	17.4	--	7.1	6.3	--
CARGILL 874	39.5	--	--	20.4	--	--	8.1	--	--
GLENN & GARNO GX906	39.5	--	--	15.7	--	--	6.2	--	--
WOLVERINE W166	39.2	34.5	32.8	16.6	20.5	19.3	6.5	6.9	6.2
FUNK G-4326	39.0	33.0	--	18.6	18.9	--	7.2	6.2	--
SUPER CROST 1940	38.9	35.6	34.6	16.6	20.1	19.2	6.5	7.0	6.6
STANTON SX100	38.9	33.4	33.0	16.5	18.6	17.4	6.4	6.1	5.7
SELECT 3100	38.8	--	--	19.6	--	--	7.6	--	--
KING K4422	38.7	34.2	--	15.8	20.7	--	6.1	6.8	--
PIONEER 3744	38.6	32.3	32.3	19.9	21.6	21.1	7.6	6.8	6.7
DEKALB-PFIZER DK484	38.5	33.6	32.7	18.7	21.6	20.4	7.2	7.1	6.6
STAUFFER SEEDS S4414	38.4	--	--	16.6	--	--	6.4	--	--
FUNK G-4211	38.1	34.0	--	18.6	17.9	--	7.1	6.1	--
PIONEER 3779	38.1	--	--	19.0	--	--	7.2	--	--
BETA SEED KH391	37.7	--	--	15.9	--	--	6.0	--	--
DEKALB-PFIZER DK505	37.5	--	--	20.1	--	--	7.5	--	--
SELECT 2747	37.5	--	--	19.2	--	--	7.2	--	--
MF1-1855	37.3	--	--	16.0	--	--	6.0	--	--
FUNK G-4312	37.1	33.3	--	18.7	19.4	--	7.0	6.5	--
GREAT LAKES GL-516	37.1	32.8	32.0	20.0	20.5	19.9	7.4	6.7	6.3
DAIRYLAND DX1102	37.1	--	--	17.2	--	--	6.4	--	--
CARGILL 842	37.0	--	--	19.0	--	--	7.0	--	--
RENK RK19	36.9	--	--	20.5	--	--	7.6	--	--
ANDERSONS PSX-105	36.8	31.5	30.4	22.0	23.4	23.6	8.1	7.3	7.1
GARNO S-91X	36.7	--	--	19.0	--	--	7.0	--	--
DEKALB-PFIZER DK524	36.4	--	--	20.7	--	--	7.5	--	--
GREAT LAKES GL-540	36.4	--	--	18.1	--	--	6.6	--	--
RENK RK25	36.2	--	--	20.0	--	--	7.2	--	--
CARDINAL SX112	36.1	--	--	20.3	--	--	7.3	--	--
DAIRYLAND DX1107	36.1	32.2	--	20.5	24.9	--	7.4	7.8	--
RENK RK66	36.1	--	--	19.8	--	--	7.1	--	--
ANDERSONS PSX-100	36.1	32.0	--	19.1	19.8	--	6.9	6.3	--
GOLDEN HARVEST H-2480	36.1	--	--	19.5	--	--	7.1	--	--
PRIDE 3376	35.6	--	--	18.4	--	--	6.5	--	--
MF1-1834	35.6	--	--	23.8	--	--	8.3	--	--
GREAT LAKES GL-579	35.5	32.0	30.9	21.1	23.4	24.2	7.5	7.4	7.4
SOHIGRO S-39	35.2	31.4	30.3	19.3	19.7	20.4	6.8	6.2	6.2
RENK R148	35.1	--	--	22.0	--	--	7.7	--	--
SELECT 3720	34.8	--	--	23.3	--	--	8.1	--	--
STAUFFER SEEDS S5340	34.2	31.2	--	23.3	24.2	--	8.0	7.5	--
KING K5574	34.1	--	--	21.2	--	--	7.2	--	--
CARGILL HS50A	34.1	--	--	19.0	--	--	6.4	--	--

WOLVERINE W153	51.6	--	--	13.6	--	--	7.0	--	--
SOHIGRO S-17	50.5	--	--	11.4	--	--	5.8	--	--
PAYCO SX620	49.9	42.0	39.8	15.3	16.9	17.0	7.6	6.9	6.6
FUNK 1011X	49.7	42.5	--	13.2	15.7	--	6.5	6.5	--
WOLVERINE X193	49.6	--	--	15.3	--	--	7.6	--	--
DAIRYLAND DX1097	49.5	41.7	--	14.1	17.5	--	7.0	7.0	--
GLENN & GARNO GX920	49.2	--	--	15.7	--	--	7.7	--	--
DAIRYLAND DX1096	49.1	40.0	37.1	13.7	15.8	15.8	6.7	6.1	5.7
CARGILL 829	49.0	40.4	--	13.7	17.3	--	6.7	6.7	--
STANTON SX95	47.9	39.4	37.0	14.4	15.9	16.7	6.9	6.1	6.0
PAYMASTER 1990	47.8	39.0	36.2	12.4	17.1	16.7	5.9	6.2	5.8
PIONEER 3901	47.7	41.4	38.9	15.7	17.1	17.4	7.4	6.9	6.6
NORTHROP KING PX9242	47.2	39.7	--	15.5	20.0	--	7.3	7.5	--
CARDINAL 3222	47.1	39.0	--	15.1	19.1	--	7.1	7.1	--
GRIES X219	47.1	--	--	11.5	--	--	5.4	--	--
GREAT LAKES GL-422	47.1	39.9	38.2	15.3	18.0	17.6	7.2	7.0	6.6
GLENN & GARNO GX902	47.1	--	--	13.5	--	--	6.4	--	--
CARDINAL 2820	46.6	--	--	13.3	--	--	6.2	--	--
RENK RK17A	46.6	--	--	14.4	--	--	6.6	--	--
WOLVERINE X197	46.4	--	--	15.8	--	--	7.3	--	--
GREAT LAKES GL-414	46.0	--	--	14.8	--	--	6.8	--	--
WOLVERINE X198	46.0	--	--	15.1	--	--	6.9	--	--
DAIRYLAND DX1001	45.0	38.8	--	18.0	18.7	--	8.1	7.2	--
DAIRYLAND DST9504	44.5	--	--	16.7	--	--	7.4	--	--
ANDERSONS PSX-93	44.3	37.9	35.8	12.2	17.1	17.3	5.4	6.1	5.9
GREAT LAKES GL-498	44.2	--	--	16.0	--	--	7.1	--	--
P-A-G SX180	43.3	38.9	--	14.8	16.6	--	6.4	6.3	--
GREAT LAKES GL-437	43.2	--	--	15.3	--	--	6.6	--	--
DAIRYLAND DX1003	43.2	36.9	35.3	15.5	16.7	16.6	6.7	6.1	5.8
GOLDEN HARVEST H-2344	43.0	--	--	16.4	--	--	6.9	--	--
STAUFFER SEEDS S4402	42.3	36.8	35.2	16.8	19.9	18.7	7.1	7.1	6.5
WOLVERINE X1102A	42.3	--	--	17.2	--	--	7.3	--	--
PIONEER 3747	42.3	35.8	33.7	18.9	21.7	20.0	8.0	7.6	6.7
ASGROW/O'S GOLD 2330	42.3	--	--	18.5	--	--	7.8	--	--
PRIDE 4422	42.0	35.6	--	18.5	20.0	--	7.7	7.0	--
GREAT LAKES GL-487	41.9	36.2	34.9	17.9	20.1	20.3	7.5	7.1	7.0
GLENN & GARNO GX960	41.9	--	--	16.5	--	--	6.9	--	--
PIONEER 3737	41.8	36.2	--	18.7	19.3	--	7.8	6.9	--
WOLVERINE W164	41.7	--	--	18.1	--	--	7.6	--	--
P-A-G SX182	41.7	--	--	16.8	--	--	7.0	--	--
KING K416	41.7	--	--	15.3	--	--	6.4	--	--
SOHIGRO S-29	41.7	37.6	37.2	18.7	19.7	18.2	7.8	7.4	6.8
SOHIGRO S-28	41.6	--	--	16.2	--	--	6.8	--	--
PICKSEED 5575	41.5	--	--	17.0	--	--	7.0	--	--
CARGILL 859	41.4	--	--	19.0	--	--	7.8	--	--
DAIRYLAND DST10007	41.2	--	--	15.4	--	--	6.3	--	--
SOHIGRO S-35	41.1	35.1	34.1	17.3	21.8	20.5	7.1	7.4	6.8
FUNK G-4342	41.0	33.8	32.5	17.7	20.4	20.4	7.2	6.7	6.5
JACQUES JX77	41.0	36.3	--	15.9	18.9	--	6.5	6.7	--
DEKALB-PFIZER DK461	40.9	--	--	17.5	--	--	7.2	--	--
SOHIGRO S-25	40.8	34.9	33.7	16.4	20.3	19.3	6.7	6.9	6.4
STAUFFER SEEDS S4454WX	40.7	--	--	15.0	--	--	6.1	--	--
SUPER CROST 2410	40.4	35.4	33.8	19.2	20.5	19.6	7.7	7.1	6.5
ASGROW/O'S GOLD RX480	40.2	34.7	--	16.4	20.1	--	6.6	6.8	--
FUNK G-4256	40.1	35.4	35.1	18.7	20.9	19.7	7.5	7.3	6.9

GREAT LAKES 5922	34.1	30.5	30.1	22.6	25.8	25.1	7.7	7.7	7.5
RENK RK60	33.6	--	--	20.7	--	--	7.0	--	--
SOHIGRO S-40	33.6	--	--	23.0	--	--	7.7	--	--
RENK RK64	33.2	--	--	21.1	--	--	7.0	--	--
GOLDEN HARVEST H-2572	33.2	28.1	--	24.7	25.5	--	8.2	7.1	--
SELECT 3300	33.1	--	--	19.1	--	--	6.3	--	--
MF1-1776	32.7	29.6	--	19.1	23.9	--	6.2	6.9	--
STAUFFER SEEDS S5750	32.5	--	--	22.8	--	--	7.4	--	--
STAUFFER SEEDS S5650	32.2	29.8	29.2	21.2	21.1	20.6	6.8	6.3	6.0
GREAT LAKES GL-599	31.3	--	--	26.6	--	--	8.4	--	--
KING K4484	30.6	--	--	24.0	--	--	7.3	--	--
RENK RK76	30.6	--	--	25.7	--	--	7.8	--	--
STAUFFER SEEDS S7759	30.3	--	--	27.4	--	--	8.3	--	--
STAUFFER SEEDS S6707WX	29.5	--	--	26.3	--	--	7.7	--	--
GREAT LAKES GL-608	29.5	27.1	--	26.6	26.5	--	7.8	7.2	--
AVERAGE	40.9	35.8	34.7	18.0	19.7	19.0	7.0	6.8	6.4
RANGE	29.5	27.1	29.2	10.5	13.6	14.1	5.4	5.6	5.5
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	55.7	45.8	41.8	27.4	26.5	25.1	8.4	7.8	7.5
LEAST SIGNIFICANT DIFFERENCE	3.5	2.5	1.8	2.0	1.5	1.2	0.8	0.5	0.4

	1985	1984	1983
PLANTED	May 2	May 4	May 13
HARVESTED	September 19	September 13	September 19
SOIL TYPE	Kilmangah loam	Kilmangah loam	Kilmangah loam
PREVIOUS CROP	corn	corn	corn
POPULATION	21,900	21,000	22,000
ROWS	30"	30"	30"
FERTILIZER	197-63-129	234-123-8	204-94-114
SOIL TEST: pH	7.6	7.0	6.9
P	85(high)	158(very high)	128(very high)
K	180(medium)	424(very high)	326(very high)

FARM COOPERATOR: William McCrea, Bad Axe

COUNTY EXTENSION DIRECTOR: Jim LeCureaux, Bad Axe, (1985, 1984)  
Lee Warschefsky, Bad Axe, (1983)



*GREAT LAKES GL-487	25.2	24	27	128.5	114	128	0.0	0	1
*GREAT LAKES GL-498	25.3	--	--	124.7	--	--	1.4	--	--
JACQUES EXP.4098	25.4	--	--	82.3	--	--	2.2	--	--
GREAT LAKES GL-466	25.4	25	27	101.2	104	115	1.4	1	4
*DAIRYLAND DX1102	25.4	--	--	116.6	--	--	0.7	--	--
DAIRYLAND DST9504	25.4	--	--	92.3	--	--	2.2	--	--
MCKENZIE 507	25.4	--	--	91.8	--	--	0.7	--	--
PRIDE 4422	26.1	--	--	110.7	--	--	0.0	--	--
DAIRYLAND DST10007	26.3	--	--	90.6	--	--	0.8	--	--
STAUFFER SEEDS S4454WX	26.5	--	--	104.1	--	--	1.4	--	--
CARGILL 839	26.7	--	--	105.4	--	--	1.5	--	--
*STANTON SX100	26.8	26	28	119.9	113	121	2.1	3	3
KING K4422	26.9	26	28	96.0	107	118	0.7	0	3
CARGILL 842	27.4	--	--	107.4	--	--	1.4	--	--
*SUPER CROST 2288	27.8	27	--	113.6	107	--	0.7	0	--
*CARDINAL SX112	28.1	--	--	116.7	--	--	0.7	--	--
*RUPP XR1639	28.2	--	--	129.4	--	--	0.8	--	--
RUPP XR1690	28.4	--	--	101.2	--	--	2.1	--	--
ASGROW/O'S GOLD 6880	28.5	28	--	97.2	98	--	0.0	0	--
RUPP XR1707	28.7	--	--	109.9	--	--	0.0	--	--
AVERAGE	24.3	24	26	99.3	98	109	1.8	2	4
RANGE	19.0	21	24	73.7	76	92	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.7	28	28	129.4	117	128	7.8	4	7
LEAST SIGNIFICANT DIFFERENCE	1.7	1.1	0.8	11.6	8	5	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	May 1	May 7	May 18
HARVESTED	October 29	November 2	October 22
SOIL TYPE	Ithaca loam	Ithaca loam	Isabella loam
PREVIOUS CROP	navy beans	wheat & mammoth sweet clover	wheat
POPULATION	21,800	21,400	21,200
ROWS	30"	30"	30"
FERTILIZER	148-68-158	145-81-147	133-100-103
SOIL TEST: pH	6.8	7.5	6.6
	P 98(high)	102(high)	60(media high)
	K 384(very high)	360(very high)	185(media)

FARM COOPERATOR: Bill, Fred and Steve Zeien, Beal City (1985,1984)  
Floyd Hauck, Rosebush (1983)

COUNTY EXTENSION DIRECTOR: Lyle Thompson, Mt. Pleasant

TABLE 19 (CONTINUED) NORTH CENTRAL MICHIGAN  
Montcalm County Trial - Irrigated vs. Not Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE					% STALK LODGING						
	1985	2	3	1985	1985	2	2	3	3	1985	1985	2	2	3	3
	IRR	IRR	IRR	IRR	NON	IRR	NON	IRR	NON	IRR	NON	IRR	NON	IRR	NON
AVERAGE	23.4	25	26	175.2	157.6	168	114	165	99	1.5	0.9	2	3	4	5
RANGE	20.3	22	23	142.0	126.0	134	93	137	80	0.0	0.0	0	0	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	29.7	30	29	212.7	183.5	196	131	191	115	18.3	5.6	12	6	9	7
LEAST SIGNIFICANT DIFFERENCE	1.7	1.1	0.7	16.4	14.2	11	7	8	5	--	--	--	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD, IRRIGATED IN 1985  
\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD, NOT IRRIGATED IN 1985

	1985	1984	1983
PLANTED	May 1	May 2	May 6
HARVESTED	October 30-31	October 27	October 24
SOIL TYPE	Montcalm McBride sandy loam	Montcalm McBride sandy loam	Montcalm McBride sandy loam
PREVIOUS CROP	Alfalfa	Potatoes	Potatoes
POPULATION	22,000	21,000	21,400
ROWS	30"	30"	30"
FERTILIZER	253-135-135	340-125-125	330-125-125
IRRIGATION	6 inches	8 inches	7 inches
SOIL TEST: pH	5.6	6.6	5.8
	P 505 (very high)	555 (very high)	417 (very high)
	K 184 (medium)	240 (high)	202 (medium)

FARM COOPERATOR: Theron Comden, Montcalm Research Farm, Lakeview

COUNTY EXTENSION DIRECTOR: William Carpenter, Stanton

TABLE 20 NORTH CENTRAL MICHIGAN  
Mason County Trial - Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR
KING K1163	20.7	22	22	117.4	104	94	7.9	6	7
CARGILL 809	21.2	--	--	117.2	--	--	9.2	--	--
SUPER CROST 1621	21.3	23	23	132.3	134	125	1.4	6	8
KING K1184	21.7	21	--	116.9	108	--	0.7	1	--
FUNK 1011X	21.9	23	--	116.6	119	--	4.3	2	--
PAYCO SX500	21.9	--	--	135.2	--	--	2.1	--	--
KING K2203	22.0	22	23	144.9	129	128	1.4	1	5
JACQUES 4700	22.1	--	--	123.3	--	--	5.0	--	--
PAYCO SX620	22.2	23	24	117.3	127	128	5.6	4	6
*KING K2204	22.5	23	24	157.7	138	129	2.1	2	4
PIONEER 3901	22.9	23	24	154.9	142	142	2.1	2	4
GLENN & GARNO GS900	22.9	--	--	131.6	--	--	6.2	--	--
P-A-G SX123	23.2	--	--	140.4	--	--	7.7	--	--
*FUNK G-4217	23.3	--	--	170.8	--	--	2.1	--	--
JACQUES JX97	23.3	24	25	141.9	141	138	2.1	1	5
NORTHROP KING PX9242	23.4	--	--	132.0	--	--	0.0	--	--
GREAT LAKES GL-414	23.5	--	--	129.5	--	--	2.8	--	--
FUNK G-4211	23.8	24	--	120.9	129	--	1.7	1	--
GLENN & GARNO GX902	23.8	--	--	115.8	--	--	5.2	--	--
*PIONEER 3779	24.0	--	--	172.1	--	--	0.7	--	--
*PICKSEED 5575	24.0	--	--	165.8	--	--	0.7	--	--
BETASEED KH391	24.1	--	--	137.5	--	--	0.7	--	--
*SUPER CROST 1940	24.3	25	26	162.2	149	140	2.1	1	7
CARGILL 829	24.4	--	--	119.1	--	--	3.6	--	--
P-A-G SX180	24.6	--	--	121.9	--	--	4.2	--	--

TABLE 20 (CONTINUED) NORTH CENTRAL MICHIGAN ZONE 3  
Mason County Trial - Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	
*GREAT LAKES GL-437	24.8	--	--	157.9	--	--	2.9	--	--
GARNO S-91X	25.1	--	--	146.1	--	--	4.3	--	--
GOLDEN HARVEST H-2300	25.3	26	25	154.4	141	136	2.1	2	6
ASGROW/O'S GOLD 2330	25.5	--	--	148.9	--	--	2.1	--	--
*GOLDEN HARVEST H-2344	25.5	--	--	158.0	--	--	0.7	--	--
-----									
*PIONEER 3737	25.6	25	--	163.5	157	--	4.9	3	--
KING K4422	25.6	26	--	141.4	136	--	0.0	0	--
PIONEER 3744	26.0	26	26	146.8	138	140	0.0	1	5
*CARGILL 859	26.0	--	--	164.2	--	--	2.8	--	--
FUNK G-4256	26.2	26	26	124.7	129	123	2.7	4	7
-----									
*PIONEER 3747	26.2	26	27	171.6	151	144	2.7	1	5
STAUFFER SEEDS S3306	26.3	26	25	133.6	135	134	7.4	4	6
GREAT LAKES GL-498	26.3	--	--	149.0	--	--	2.1	--	--
*DEKALB-PFIZER DK484	26.5	27	27	171.7	156	150	0.8	1	4
CARGILL 842	26.5	--	--	142.4	--	--	2.2	--	--
-----									
*PAYCO SX788	26.5	--	--	165.4	--	--	2.9	--	--
DEKALB-PFIZER DK505	26.8	--	--	152.0	--	--	1.5	--	--
*ASGROW/O'S GOLD 2450	26.8	--	--	164.2	--	--	0.7	--	--
-----									
AVERAGE	24.2	24	25	143.0	135	132	2.8	2	6
-----									
RANGE	20.7	21	22	115.8	104	94	0.0	0	4
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	26.8	27	27	172.1	157	150	9.2	6	8
-----									
LEAST SIGNIFICANT DIFFERENCE	1.6	1.0	0.8	13.9	9	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

	1985	1984	1983
PLANTED	May 9	May 16	May 5
HARVESTED	November 1	October 30	October 26
SOIL TYPE	Iosco sandy loam	Iosco sandy loam	Iosco sandy loam
PREVIOUS CROP	corn	corn	corn
POPULATION	21,900	21,300	20,800
ROWS	30"	30"	30"
FERTILIZER	137-48-84	132-48-60 + manure	134-76-70 + manure
IRRIGATION	4 inches	4 inches	3 inches
SOIL TEST: pH	6.7	6.9	7.1
	P 201(very high)	292(very high)	233(very high)
	K 422(very high)	555(very high)	606(very high)

FARM COOPERATOR: Robert and August Ohse, Custer

COUNTY EXTENSION DIRECTOR: Bill Robb, Scottville

TABLE 21 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Grand Traverse County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

	1985	1984	1983
PLANTED	May 10	May 16	May 5
HARVESTED	November 6	October 31	October 26
SOIL TYPE	Coventry-Newaygo loam	Coventry-Newaygo loam	Coventry-Newaygo loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,300	21,100	20,900
ROWS	30"	30"	30"
FERTILIZER	136-45-90	132-63-108	137-48-72
SOIL TEST: pH	7.0	7.2	6.6
	P 272(very high)	289(very high)	294(very high)
	K 448(very high)	456(very high)	303(high)

FARM COOPERATOR: George Svec, Buckley

COUNTY AGRICULTURAL AGENT: Steve Fouch, Traverse City

TABLE 22 NORTHERN MICHIGAN ZONE 4  
Missaukee County Trial- Silage  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1985	2	3	1985	2	3	1985	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
KING K1122	32.3	31.5	30.3	14.5	15.6	16.5	4.7	4.9	4.9
DAIRYLAND DX1081	31.2	--	--	14.1	--	--	4.4	--	--
KING K1124	30.5	29.2	--	17.9	19.7	--	5.5	5.7	--
DAIRYLAND DX1086	30.4	29.4	--	18.5	17.2	--	5.7	5.1	--
PIONEER 3949	29.8	--	--	16.1	--	--	4.8	--	--
-----									
STANTON 1085	29.8	30.4	30.3	14.7	15.7	15.8	4.4	4.8	4.8
STANTON 1080	29.7	31.4	31.2	15.2	14.5	14.6	4.5	4.5	4.5
DAIRYLAND DX1087	29.6	--	--	19.3	--	--	5.7	--	--
GLENN & GARNO GE820	29.3	--	--	13.4	--	--	3.9	--	--
GLENN & GARNO GX902	29.2	--	--	18.3	--	--	5.3	--	--
-----									
ANDERSONS QSX-85	27.8	--	--	16.7	--	--	4.7	--	--
DAIRYLAND DX1088	27.7	28.0	28.4	16.2	17.5	17.7	4.5	4.9	5.0
PIONEER 3803	27.5	--	--	19.4	--	--	5.3	--	--
ADOUR 433	27.4	--	--	22.2	--	--	6.1	--	--
PIONEER 3930	27.2	--	--	19.4	--	--	5.3	--	--
-----									
KING K1184	27.2	29.4	--	19.9	18.1	--	5.4	5.3	--
JACQUES 4700	27.1	--	--	17.6	--	--	4.8	--	--
KING K1163	27.1	28.2	--	13.5	14.0	--	3.7	4.0	--
ANDERSONS PSX-93	27.0	27.1	27.0	19.9	19.8	19.9	5.4	5.3	5.4
PIONEER 3779	26.7	--	--	21.3	--	--	5.7	--	--
-----									
DAIRYLAND DX1096	26.5	27.9	--	21.3	19.1	--	5.7	5.3	--
DAIRYLAND DX1001	26.3	28.1	--	22.2	19.5	--	5.8	5.4	--
ASGROW/O'S GOLD 2330	26.3	28.9	--	21.6	20.7	--	5.7	5.9	--
KING K2204	26.0	--	--	21.5	--	--	5.6	--	--
DAIRYLAND DX1097	26.0	27.0	--	23.5	21.2	--	6.1	5.6	--

TABLE 21

NORTHERN MICHIGAN  
Grand Traverse County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	%MOISTURE			BUSHELS PER ACRE			%STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	
NORTHROP KING PX9028	22.3	--	--	91.5	--	--	5.1	--	--
PRIDE 1142	22.4	23	--	79.7	85	--	5.6	10	--
FUNK G-4081	22.8	23	24	78.5	87	84	2.1	10	11
FUNK G-4085	23.1	24	24	78.3	76	76	5.3	13	18
NORTHROP KING PX9144	23.5	24	23	88.1	87	84	5.2	9	15
*PRIDE 1194	24.2	--	--	109.4	--	--	2.1	--	--
KING K1163	24.4	24	23	77.7	80	87	2.8	10	15
KING K1184	25.0	24	--	80.9	88	--	5.2	7	--
NORTHROP KING PX9151	25.3	25	--	105.6	109	--	4.1	5	--
PAYCO SX500	25.3	--	--	87.5	--	--	2.1	--	--
CARDINAL 2720	25.4	25	--	88.1	96	--	2.1	4	--
*GREAT LAKES GL-414	25.5	--	--	109.3	--	--	3.5	--	--
STANTON 1080	25.6	25	24	95.0	87	80	1.5	9	18
STANTON 1085	25.8	25	24	86.9	87	80	5.6	12	19
PAYCO SX431	25.9	--	--	96.6	--	--	2.9	--	--
FUNK 1011X	26.4	26	--	84.0	92	--	4.3	5	--
KING K2203	26.4	26	26	91.5	96	100	5.6	4	8
CARDINAL 2820	26.9	26	--	87.8	99	--	4.2	4	--
*GREAT LAKES 82351	26.9	--	--	123.2	--	--	2.9	--	--
GLENN & GARNO GS900	27.3	--	--	99.3	--	--	3.5	--	--
*GREAT LAKES GL-422	27.6	27	27	115.6	115	114	3.6	7	12
*PICKSEED 4555	27.6	--	--	113.5	--	--	3.5	--	--
*FUNK G-4211	27.7	--	--	115.8	--	--	3.6	--	--
*GARNO S-90	27.9	27	--	111.5	114	--	2.1	8	--
JACQUES 4200	27.9	--	--	105.5	--	--	0.0	--	--
*KING K2204	27.9	27	25	111.9	113	104	1.4	6	12
JACQUES 4700	28.4	--	--	93.0	--	--	2.2	--	--
STANTON SX90	28.4	--	--	94.0	--	--	1.4	--	--
*STAUFFER SEEDS S2101WX	28.6	26	--	108.6	101	--	2.1	7	--
PRIDE 2244	28.8	--	--	101.3	--	--	2.7	--	--
GLENN & GARNO GX906	28.8	--	--	85.6	--	--	3.4	--	--
NORTHROP KING PX9242	29.6	--	--	83.4	--	--	0.0	--	--
BETASEED KH282	29.7	--	--	102.5	--	--	1.4	--	--
*CARDINAL 3222	30.8	30	--	121.5	108	--	1.5	6	--
ASGROW/O'S GOLD 2230	30.9	--	--	89.1	--	--	2.8	--	--
PAYCO SX620	31.5	--	--	99.3	--	--	0.7	--	--
AVERAGE	26.7	25	24	95.7	96	90	3.0	8	14
RANGE	22.3	23	23	77.7	76	76	0.0	4	8
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	31.5	30	27	123.2	115	114	5.6	13	19
LEAST SIGNIFICANT DIFFERENCE	1.8	1.2	1.0	11.2	8	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

ADOUR 432	25.5	--	--	21.0	--	--	5.3	--	--
ADOUR 777	25.4	--	--	23.1	--	--	5.8	--	--
DAIRYLAND DST 9504	25.0	--	--	22.7	--	--	5.7	--	--
PIONEER 3901	24.9	--	--	20.0	--	--	5.0	--	--
ADOUR 1818	24.9	--	--	22.8	--	--	5.7	--	--
DAIRYLAND DST10007	23.9	--	--	24.0	--	--	5.7	--	--
GOLDEN HARVEST H-2300	23.9	25.7	25.6	20.5	22.3	22.0	4.9	5.7	5.6
GOLDEN HARVEST H-2344	23.7	--	--	21.5	--	--	5.1	--	--
AVERAGE	27.0	28.7	28.8	19.2	18.2	17.8	5.2	5.2	5.0
RANGE	23.7	25.7	25.6	13.4	14.0	14.6	3.7	4.0	4.5
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	32.3	31.5	31.2	24.0	22.3	22.0	6.1	5.9	5.6
LEAST SIGNIFICANT DIFFERENCE	2.6	2.0	1.6	2.1	1.5	1.3	0.6	0.4	0.4

	1985	1984	1983
PLANTED	May 10	May 11	May 17
HARVESTED	September 25	September 18	September 20
SOIL TYPE	Marlette sandy loam	Marlette sandy loam	Marlette sandy loam
PREVIOUS CROP	Corn	Alfalfa-grass sod	corn
POPULATION	21,000	20,400	20,900
ROWS	28"	28"	28"
FERTILIZER	152-29-143	148-44-123	155-37-82
SOIL TEST: pH	6.4	6.6	6.2
	P 95 (high)	96 (high)	92 (high)
	K 328 (very high)	116 (low)	312 (very high)

FARM COOPERATOR: Lake City Experiment Station  
Michigan State University, Lake City

COUNTY EXTENSION DIRECTOR: Carl Stephens, Lake City

TABLE 23 NORTHERN MICHIGAN  
Alpena County Trial- Grain  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1985	2	3	1985	2	3	1985	2	3
		YR	YR		YR	YR		YR	
KING K1124	26.0	27	--	69.7	90	--	5.0	3	--
DAIRYLAND DX1081	26.4	--	--	91.6	--	--	0.0	--	--
KING K1122	26.8	27	28	85.6	95	72	1.5	2	2
PICKSEED 2666	28.3	--	--	80.1	--	--	7.9	--	--
GREAT LAKES GL-188	28.6	28	--	68.8	85	--	12.3	6	--
STANTON 1080	28.9	29	29	80.9	80	62	4.4	4	4
FUNK 1011X	29.0	30	--	96.5	103	--	0.0	0	--
FUNK G-4081	29.1	30	30	73.5	92	73	8.4	5	3
GLENN & GARNO GEB20	29.1	--	--	68.1	--	--	4.1	--	--
PIONEER 3949	29.4	28	--	96.3	103	--	3.0	2	--
STANTON 1085	29.7	30	30	67.5	92	70	5.4	4	4
PAYCO SX342	29.7	--	--	90.4	--	--	1.4	--	--
KING K1163	29.8	30	--	90.9	100	--	0.7	1	--
GREAT LAKES GL-313	29.9	--	--	71.4	--	--	2.8	--	--
GREAT LAKES GL-381	30.2	30	--	96.4	100	--	1.4	1	--

TABLE 23 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Alpena County Trial-Grain  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	2	3		2	3		2	3	
	1985	YR	YR	1985	YR	YR	1985	YR	YR
*NORTHROP KING PX9151	30.2	--	--	109.3	--	--	0.7	--	--
DAIRYLAND DX1075	31.0	29	--	69.0	87	--	9.2	5	--
*PIONEER 3779	31.1	--	--	103.9	--	--	2.3	--	--
DAIRYLAND DX1082	31.5	30	--	85.7	88	--	2.8	1	--
GLENN & GARNO GX902	31.5	--	--	82.4	--	--	0.7	--	--
ASGROW/O'S GOLD 885	31.6	--	--	85.4	--	--	3.6	--	--
*PIONEER 3803	31.9	--	--	100.6	--	--	0.7	--	--
ADOUR 833	31.9	--	--	69.8	--	--	5.7	--	--
FUNK G-4083	32.2	28	--	69.1	79	--	0.0	1	--
DAIRYLAND DX1087	32.2	--	--	82.2	--	--	1.4	--	--
KING K1184	32.3	31	--	81.7	86	--	2.1	1	--
DAIRYLAND DX1088	32.4	31	--	82.1	92	--	0.7	2	--
*DAIRYLAND DX1086	32.6	31	--	106.8	106	--	2.9	2	--
ASGROW/O'S GOLD 2230	32.7	--	--	86.7	--	--	1.4	--	--
PICKSEED 4555	32.8	--	--	94.9	--	--	4.2	--	--
*PIONEER 3930	33.9	32	31	101.2	110	88	0.7	1	1
ANDERSONS PSX-93	33.9	32	--	76.9	83	--	0.0	0	--
GOLDEN HARVEST H-2300	34.3	34	34	82.0	101	79	0.7	0	1
*GREAT LAKES GL-422	34.5	33	33	105.5	112	89	0.7	0	0
JACQUES 4700	34.6	--	--	86.8	--	--	1.4	--	--
GREAT LAKES GL-414	34.7	--	--	82.8	--	--	0.0	--	--
*GOLDEN HARVEST H-2344	34.7	--	--	109.9	--	--	5.0	--	--
*FUNK G-4141A	34.8	33	--	110.3	112	--	1.4	1	--
FUNK G-4211	34.8	--	--	90.4	--	--	0.7	--	--
CARDINAL 2820	35.0	--	--	82.2	--	--	2.8	--	--
*PAYCO SX500	35.0	--	--	99.6	--	--	0.7	--	--
FUNK G-4217	35.1	--	--	97.2	--	--	2.9	--	--
*GARNO S-90	35.1	33	33	104.0	110	89	2.9	2	2
*PIONEER 3901	35.2	34	34	106.0	115	91	3.6	2	2
ANDERSONS QSX-85	35.4	--	--	91.2	--	--	7.8	--	--
*DAIRYLAND DX1096	35.6	34	--	105.7	114	--	1.4	1	--
NORTHROP KING PX9902	35.7	--	--	76.0	--	--	7.6	--	--
*KING K2204	35.9	--	--	106.6	--	--	7.0	--	--
JACQUES JX47	36.1	34	--	87.3	104	--	2.9	2	--
CARDINAL 3222	37.8	34	--	85.7	103	--	1.4	1	--
BETASEED KH282	38.5	--	--	91.1	--	--	2.1	--	--
DAIRYLAND DX1097	38.6	36	--	86.9	94	--	0.7	1	--
DAIRYLAND DST9504	39.2	--	--	91.2	--	--	4.1	--	--
AVERAGE	32.6	31	31	88.4	98	79	3.1	2	2
RANGE	26.0	27	28	67.5	79	62	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	39.2	36	34	110.3	115	91	12.3	6	4
LEAST SIGNIFICANT DIFFERENCE	2.7	1.8	1.2	9.8	7	5	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

TABLE 24 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Alpena County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	2	3		2	3		2	3	
	1985	YR	YR	1985	YR	YR	1985	YR	YR
GLENN & GARNO GE820	22.2	--	--	19.8	--	--	4.4	--	--
DAIRYLAND DX1088	22.1	25.7	--	24.1	20.0	--	5.3	4.9	--
ANDERSONS PSX-93	22.1	23.5	--	23.8	20.1	--	5.3	4.7	--
FUNK G-4141A	22.0	25.6	--	25.9	21.8	--	5.7	5.4	--
STANTON 1085	22.0	25.6	25.1	22.3	18.8	14.5	4.9	4.7	3.6
GREAT LAKES GL-414	21.4	--	--	25.7	--	--	5.5	--	--
PICKSEED 4555	21.4	--	--	24.2	--	--	5.2	--	--
KING K1124	21.2	25.3	--	22.9	21.3	--	4.9	5.3	--
DAIRYLAND DST9504	21.2	--	--	28.9	--	--	6.1	--	--
ANDERSONS QSX-85	21.2	--	--	21.5	--	--	4.6	--	--
CARDINAL 3222	21.1	23.6	--	25.4	22.2	--	5.3	5.1	--
KING K1122	21.1	25.3	24.8	22.3	18.5	14.3	4.7	4.5	3.4
BETASEED KH282	21.0	--	--	26.0	--	--	5.5	--	--
PIONEER 3779	20.9	--	--	27.0	--	--	5.6	--	--
PIONEER 3901	20.8	23.8	23.4	28.5	22.9	17.8	5.9	5.3	4.1
DAIRYLAND DX1096	20.8	24.6	--	26.4	23.3	--	5.5	5.6	--
GREAT LAKES GL-422	20.7	24.0	23.7	26.6	23.5	18.5	5.5	5.5	4.3
GLENN & GARNO GX902	20.6	--	--	22.1	--	--	4.6	--	--
CARDINAL 2820	20.5	--	--	21.3	--	--	4.3	--	--
GARNO S-90	20.2	23.9	23.6	26.6	23.6	18.7	5.4	5.5	4.4
PIONEER 3930	20.2	22.9	23.1	26.6	23.2	17.8	5.4	5.2	4.0
GOLDEN HARVEST H-2344	20.1	--	--	30.5	--	--	6.1	--	--
GOLDEN HARVEST H-2300	20.0	23.5	23.8	27.0	23.6	18.3	5.4	5.4	4.2
AVERAGE	22.5	25.8	24.4	23.4	20.3	16.7	5.2	5.1	4.0
RANGE	20.0	22.9	23.1	13.5	13.7	14.3	3.6	4.1	3.4
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	26.8	30.5	26.5	30.5	23.6	18.7	6.2	5.6	4.4
LEAST SIGNIFICANT DIFFERENCE	2.8	2.0	1.5	1.8	1.4	1.0	0.5	0.4	0.4

	1985	1984	1983
PLANTED	May 22	May 24	June 15
HARVESTED	September 25	September 18	September 20
SOIL TYPE			
PREVIOUS CROP	dry beans	dry beans	pasture sod
POPULATION	21,900	20,900	20,800
ROWS	30"	30"	30"
FERTILIZER	136-64-152	162-48-48	55-21-21
SOIL TEST: pH	6.0	6.6	7.4
P	68(high)	107(very high)	17(very low)
K	350(very high)	236(high)	104(low)

FARM COOPERATOR: Allen Schiellerd, (1985, 1984), Hubbard Lake;  
Kim and Ken Sumerix, (1983), Alpena

COUNTY EXTENSION DIRECTOR: Roger Manning, Alpena



	1985	1984	1983
PLANTED	May 22	May 24	June 15
HARVESTED	November 6	November 1	October 27
SOIL TYPE			
PREVIOUS CROP	beans	beans	pasture sod
POPULATION	22,100	21,200	19,800
ROWS	30"	30"	30"
FERTILIZER	136-64-152	162-48-48	55-21-21
SOIL TEST: pH	6.0	6.6	7.4
	P 68(high)	107(very high)	17(very low)
	K 350(very high)	236(high)	104(low)

FARM COOPERATOR: Allen Scheillard, Hubbard Lake (1985,1984);  
Ken and Kim Sumerix, Alpena (1983)

COUNTY EXTENSION DIRECTOR: Roger Manning, Alpena

TABLE 24 NORTHERN MICHIGAN ZONE 4  
Alpena County Trial- Silage  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1985	2 YR	3 YR	1985	2 YR	3 YR	1985	2 YR	3 YR
DAIRYLAND DX1075	26.8	30.5	--	13.5	13.7	--	3.6	4.1	--
GREAT LAKES GL-188	25.5	29.9	--	17.6	15.6	--	4.5	4.6	--
NORTHROP KING PX9151	25.2	--	--	22.6	--	--	5.7	--	--
PIONEER 3949	25.0	27.2	--	22.5	20.4	--	5.6	5.5	--
FUNK 1011X	24.3	27.8	--	24.3	19.3	--	5.9	5.2	--
DAIRYLAND DX1081	24.2	--	--	20.7	--	--	5.0	--	--
PICKSEED 2666	24.2	--	--	20.8	--	--	5.0	--	--
GREAT LAKES GL-313	24.0	--	--	22.5	--	--	5.4	--	--
PIONEER 3803	24.0	26.1	--	25.5	21.9	--	6.1	5.6	--
ASGROW/O'S GOLD 2230	24.0	--	--	24.3	--	--	5.8	--	--
FUNK G-4083	23.8	28.7	--	18.5	16.3	--	4.4	4.6	--
DAIRYLAND DX1087	23.8	--	--	22.8	--	--	5.4	--	--
KING K2204	23.7	--	--	24.8	--	--	5.9	--	--
KING K1184	23.5	25.6	--	26.3	20.5	--	6.2	5.1	--
DAIRYLAND DX1086	23.5	27.1	--	25.8	20.7	--	6.1	5.4	--
DAIRYLAND DX1097	23.5	25.8	--	23.1	19.5	--	5.4	4.9	--
PAYCO SX342	23.5	--	--	19.6	--	--	4.6	--	--
ADOUR 833	23.3	--	--	20.4	--	--	4.7	--	--
STANTON 1080	23.1	27.0	26.5	23.0	18.4	14.4	5.3	4.8	3.7
GREAT LAKES GL-381	23.0	26.2	--	23.5	20.6	--	5.4	5.3	--
NORTHROP KING PX9902	22.9	--	--	23.2	--	--	5.3	--	--
FUNK G-4081	22.7	25.5	25.4	21.7	19.9	15.9	4.9	5.0	4.0
JACQUES JX47	22.7	26.4	--	23.2	19.6	--	5.3	5.1	--
JACQUES 4700	22.7	--	--	23.1	--	--	5.3	--	--
PAYCO SX500	22.7	--	--	22.1	--	--	5.0	--	--
DAIRYLAND DX1082	22.4	25.9	--	22.4	19.0	--	5.0	4.8	--
FUNK G-4211	22.3	--	--	21.2	--	--	4.7	--	--
KING K1163	22.3	26.1	--	22.7	19.0	--	5.0	4.8	--
FUNK G-4217	22.2	--	--	23.2	--	--	5.2	--	--
ASGROW/O'S GOLD 885	22.2	--	--	22.3	--	--	5.0	--	--

TABLE 25 NORTHERN MICHIGAN ZONE 4  
Menominee County Trial-Grain  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	%MOISTURE			BUSHELS PER ACRE			%STALK LODGING		
	1985	2 YR	3 YR	1985	2 YR	3 YR	1985	2 YR	3 YR
NORTHROP KING PX9028	17.3	--	--	107.0	--	--	7.0	--	--
FUNK G-4083	21.0	22	--	79.0	82	--	7.0	5	--
*JACQUES JX3	24.7	--	--	136.0	--	--	2.0	--	--
PAYCO SX342	24.7	--	--	121.0	--	--	4.0	--	--
FUNK G-4085	25.0	26	24	112.0	107	105	6.0	6	5
OLDS L-1075	25.0	--	--	108.0	--	--	3.0	--	--
LAND O'LAKES M-1085A	25.3	25	--	124.0	108	--	3.0	5	--
*NORTHROP KING PX9151	25.7	26	--	143.0	137	--	3.0	5	--
JUNG 3000	26.0	25	--	104.0	102	--	1.0	3	--
*GREAT LAKES GL-414	26.7	--	--	133.0	--	--	7.0	--	--
LAND O'LAKES M-822	26.7	--	--	125.0	--	--	5.0	--	--
OLDS L-1080A	27.0	--	--	120.0	--	--	3.0	--	--
JUNG 2000	27.3	27	--	113.0	109	--	3.0	5	--
PICKSEED 2666	27.3	--	--	121.0	--	--	6.0	--	--
*GLENN & GARNO GX902	28.0	--	--	134.0	--	--	2.0	--	--
ADOUR 833	28.7	--	--	109.0	--	--	4.0	--	--
FUNK G-4081	29.3	28	27	113.0	104	101	4.0	5	5
JUNG 2350	29.3	28	27	128.0	117	104	2.0	5	3
OLDS L-1085	30.0	--	--	117.0	--	--	1.0	--	--
FUNK 1011X	30.7	29	--	117.0	114	--	3.0	5	--
*GOLDEN HARVEST EX786	31.0	--	--	144.0	--	--	1.0	--	--
PICKSEED 4555	31.0	--	--	116.0	--	--	1.0	--	--
JUNG 2395	31.3	--	--	126.0	--	--	4.0	--	--
GLENN & GARNO GE820	31.7	--	--	98.0	--	--	7.0	--	--
JACQUES 4100	32.3	31	--	124.0	112	--	1.0	4	--
JACQUES 4200	32.3	--	--	119.0	--	--	3.0	--	--
PIONEER 3803	32.3	--	--	129.0	--	--	1.0	--	--
BETASEED KH282	32.3	--	--	123.0	--	--	1.0	--	--
ADOUR 432	32.7	--	--	118.0	--	--	4.0	--	--
PIONEER 3906	33.0	31	29	121.0	123	109	1.0	3	7
LAND O'LAKES M-1093	33.3	32	--	121.0	106	--	4.0	4	--
NORTHROP KING PX9902	33.7	--	--	114.0	--	--	4.0	--	--
FUNK G-4141A	34.0	32	30	120.0	128	110	6.0	11	8
FUNK G-4217	34.3	32	30	129.0	133	128	7.0	10	7
ADOUR 433	34.3	--	--	118.0	--	--	5.0	--	--
*PIONEER 3737	35.0	--	--	133.0	--	--	4.0	--	--
*LAND O'LAKES 1096	35.3	33	--	132.0	130	--	4.0	5	--
JACQUES 4700	35.7	--	--	125.0	--	--	2.0	--	--
*PIONEER 3901	36.3	34	32	142.0	134	119	4.0	4	3
GREAT LAKES 82351	38.7	35	--	107.0	123	--	2.0	5	--
AVERAGE	29.9	29	28	120.6	116	111	3.6	5	5
RANGE	17.3	22	24	79.0	82	101	1.0	3	3
	38.7	35	32	144.0	137	128	7.0	11	8
LEAST SIGNIFICANT DIFFERENCE	2.2	2.0	1.5	11.3	9	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1985

TABLE 25 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Menominee County Trial-Grain  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

	1985	1984	1983
PLANTED	May 9	May 5	May 9
HARVESTED	October 28	October 15	October 24
SOIL TYPE	Emmet sandy loam	Emmet sandy loam	Emmet sandy loam
PREVIOUS CROP	corn	beans	corn
POPULATION	23,200	20,100	20,800
ROWS	30"	30"	30"
FERTILIZER	130-25-80	148-120-120	150-100-100
SOIL TEST: pH	7.1	7.2	7.1
P	90(high)	160(vary high)	56(medium)
K	240(high)	120(low)	174(medium)

FARM COOPERATOR: Streffling Farms, Stephenson

COUNTY EXTENSION DIRECTOR: Richard A. Breyer, Stephenson

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

TABLE 27 NORTHERN MICHIGAN ZONE 4  
Alger County Trial-Silage  
ONE AND TWO YEAR AVERAGES - 1985, 1984\*

HYBRID (BRAND-VARIETY)	%DRY MATTER		GREEN WEIGHT		DRY WEIGHT	
	1985	YR	1985	YR	1985	YR
GREAT LAKES GL-188	27.7	--	11.8	--	3.3	--
ADOUR 833	25.3	30.2	17.4	16.5	4.4	4.9
FUNK G-4083	24.4	31.6	13.5	14.4	3.3	4.6
KING K1114	23.8	32.6	14.0	12.4	3.3	3.9
KING K1113	23.0	28.4	15.0	13.3	3.5	3.7
GREAT LAKES GL-313	21.9	--	16.7	--	3.7	--
GREAT LAKES GL-344	20.8	--	14.5	--	3.0	--
ADOUR 433	20.5	--	23.5	--	4.8	--
KING K1124	20.3	26.7	18.1	17.2	3.7	4.6
ADOUR 432	19.8	--	21.9	--	4.3	--
GREAT LAKES GL-192	19.4	--	14.5	--	2.8	--
FUNK G-4085	19.3	25.1	14.0	14.1	2.7	3.6
FUNK G-4081	18.3	26.3	17.5	17.6	3.2	4.6
ADOUR 777	18.2	--	22.5	--	4.1	--
PICKSEED 2555	17.7	--	14.3	--	2.5	--
ADOUR 1818	13.0	--	24.6	--	3.2	--
AVERAGE	20.8	28.7	17.1	15.1	3.5	4.3
RANGE	13.0	25.1	11.8	12.4	2.5	3.6
	TO	TO	TO	TO	TO	TO
	27.7	32.6	24.6	17.6	4.8	4.9
LEAST SIGNIFICANT DIFFERENCE	3.3	2.8	3.1	2.3	1.0	0.9

\*NO DATA FOR 1983

	1985	1984
PLANTED	May 14	May 21
HARVESTED	October 1	October 1
SOIL TYPE	Chatham loam	Trenary loam
PREVIOUS CROP	corn	beans
POPULATION	17,900	16,600
ROWS	30"	36"
FERTILIZER	130-25-80	136-75-75
SOIL TEST: pH	7.2	7.3
P	100(high)	175(high)
K	180(medium)	75(low)
FARM COOPERATOR:	Michigan State University, Chatham	
COUNTY EXTENSION DIRECTOR:	Jack Middleton, Munising	
COOPERATOR:	Dr. Richard Leep, Department of Crop and Soil Sciences Michigan State University, Marquette	

TABLE 26 NORTHERN MICHIGAN ZONE 4  
Menominee County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1985, 1984, 1983

HYBRID (BRAND-VARIETY)	%DRY MATTER		GREEN WEIGHT		DRY WEIGHT	
	1985	YR	1985	YR	1985	YR
PAYCO SX342	36.0	--	17.3	--	6.4	--
LAND O'LAKES M-1093	35.7	38.7	20.7	19.4	7.3	7.5
GOLDEN HARVEST EX786	34.9	--	23.3	--	8.2	--
JUNG 3000	33.4	40.4	17.0	16.1	5.5	6.3
NORTHROP KING PX9028	33.2	--	18.7	--	6.1	--
PIONEER 3803	33.1	--	21.3	--	7.1	--
JACQUES 4100	32.2	36.9	20.3	19.7	6.5	7.2
NORTHROP KING PX9902	31.7	--	20.0	--	6.4	--
FUNK G-4081	31.6	38.9	22.0	20.2	6.9	7.7
OLDS L-1075	31.4	--	17.7	--	5.6	--
PIONEER 3906	31.2	35.8	22.3	21.5	7.0	7.7
PIONEER 3901	30.7	34.7	26.3	25.1	8.1	8.7
ADOUR 432	30.2	--	21.0	--	6.3	--
FUNK G-4085	30.1	34.2	18.3	17.1	5.4	5.7
NORTHROP KING PX9151	29.9	35.9	23.7	23.7	7.2	8.6
JACQUES 4200	29.7	--	22.3	--	6.6	--
PIONEER 3737	29.7	--	22.0	--	6.6	--
GLENN & GARNO GX902	29.4	--	23.0	--	6.7	--
FUNK G-4141A	29.3	33.9	24.0	23.7	7.1	8.0
JUNG 2000	29.2	37.4	20.0	19.2	5.8	7.1
BETASEED KH282	29.1	--	26.0	--	7.7	--
FUNK G-4083	28.8	36.6	17.0	16.9	4.8	6.1
FUNK G-4217	28.6	35.1	27.7	27.0	7.9	9.4
LAND O'LAKES M-1085A	28.6	39.5	21.0	17.9	6.1	6.8
ADOUR 833	28.5	--	18.7	--	5.3	--

TABLE 28

Index for 418 hybrids entered as 2,219 entries in the 1985 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.

FUNK 1011X	28.4	36.0	--	20.0	19.5	--	5.7	7.0	--
JACQUES 4700	27.9	--	--	21.7	--	--	6.0	--	--
GREAT LAKES GL-414	27.8	--	--	23.3	--	--	6.5	--	--
PICKSEED 4555	27.7	--	--	23.3	--	--	6.5	--	--
JUNG 2350	27.4	37.2	37.0	22.0	19.5	17.6	6.1	7.0	6.4
JACQUES JX3	27.2	--	--	19.3	--	--	5.3	--	--
PICKSEED 2666	27.2	--	--	19.7	--	--	5.3	--	--
GREAT LAKES 82351	26.6	32.7	--	25.7	26.5	--	6.8	8.6	--
JUNG 2395	24.6	--	--	21.3	--	--	5.3	--	--
OLDS L-1080A	24.4	--	--	18.7	--	--	4.5	--	--
GLENN & GARNO GE820	24.2	--	--	17.7	--	--	4.3	--	--
LAND O'LAKES 1096	23.8	32.2	--	26.7	27.2	--	6.4	8.8	--
LAND O'LAKES M-822	23.3	--	--	22.0	--	--	5.2	--	--
OLDS L-1085	20.6	--	--	18.7	--	--	3.8	--	--
ADOUR 433	19.7	--	--	22.0	--	--	4.3	--	--
AVERAGE	28.9	36.2	35.2	21.3	21.2	20.4	6.2	7.5	7.1
RANGE	19.7	32.2	33.4	17.0	16.1	15.9	3.8	5.7	5.4
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	36.0	40.4	38.4	27.7	27.2	25.1	8.2	9.4	8.6
LEAST SIGNIFICANT DIFFERENCE	3.1	2.7	2.4	2.8	2.1	1.6	1.0	0.8	0.5

AgriPro, Mission, KS 66201

AgriPro AP244 (2X) (2,4,7,8,9,10,11,13,14,15)	AgriPro HP401 (2X) (3,7,8,9,10,11,13,14,15)
AgriPro AP266 (2X) (13,14,15)	AgriPro AP412 (2X) (2,3,4,7,8,9,10,11,13,14,15)
AgriPro HP277 (2X) (4,13,14,15)	AgriPro HP470 (2X) (2,3,6,7)
AgriPro AP339 (2X) (2,3,4,7,8,9,10,11,13,14,15)	AgriPro AP510 (2X) (3,4,6)
AgriPro AP391 (2X) (2,6,7,8,9,10,11,13,14,15)	

Amcorn Hybrids, Inc., Reed City, MI 49677

Amcorn PSX1111 (2X) (19)	Amcorn PSX3035 (2X) (19)
Amcorn PSX2121 (2X) (19)	Amcorn PSX3131 (2X) (19)

The Andersons, Maumee, OH 43537

Andersons QSX-85 (4X) (18,19,22,23,24)	Andersons PSX-100 (2X) (1,2,8,9,10,11,13,14,15,16,17)
Andersons QSX-90 (4X) (16,17,19)	Andersons PSX-105 (2X) (1,2,3,4,6,7,10,11,13,14,15,16,17)
Andersons PSX-93 (2X) (7,8,9,10,11,13,14,15,16,17,18,19,22,23,24)	Andersons QSX-105 (4X) (4)
Andersons QSX-95 (4X) (7,8,10,11,13,14)	Andersons PSX-108 (2X) (3,4,6,10,11,13,14)
Andersons QSX-100 (4X) (7)	Andersons PSX-110 (2X) (1,2,3,6)

Asgrow Seed Co., Kalamazoo, MI 49001

Asgrow/O's Gold RX480 (2X) (13,14,15,16,17)	Asgrow/O's Gold 2330 (2X) (13,14,16,17,20,22)
Asgrow/O's Gold RX532 (2X) (10,11)	Asgrow/O's Gold 2450 (2X) (3,7,8,9,20)
Asgrow/O's Gold RX717 (2X) (2,3,4,9,19)	Asgrow/O's Gold 2545 (2X) (1,6)
Asgrow/O's Gold RX788 (2X) (1,2,6)	Asgrow/O's Gold 6880 (2X) (7,8,15,18)
Asgrow/O's Gold 885 (3X) (23,24)	Asgrow/O's Gold 6882 (2X) (3,4)
Asgrow/O's Gold 1170A (2X) (15)	Asgrow/O's Gold XP7875 (2X) (2)
Asgrow/O's Gold 2230 (2X) (21,23,24)	Asgrow/O's Gold XP7975 (2X) (1)

Beck's Hybrids, Atlanta, IN 46031

Beck's 40XT (2X) (2,7)	Beck's 61X (2X) (3)
Beck's 49X (2X) (1,3,4,6,7)	Beck's 63X (2X) (2,3,4,6)
Beck's 51X (2X) (1,2,3,6)	Beck's 65X (2X) (3,4,6)
Beck's 60X (2X) (1,4,6,7)	

Betaseed, Inc., Shakopee, MN 55379

Betaseed KH 282 (2X) (21,23,24,25,26)	Betaseed KH 391 (2X) (1,3,7,8,10,11,16,17,19,20)
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	1985	1984	1983
PLANTED	May 9	May 5	May 9
HARVESTED	September 18	September 18	September 7
SOIL TYPE	Emmet sandy Loam	Emmet sandy loam	Emmet sandy loam
PREVIOUS CROP	corn	beans	corn
POPULATION	22,560	20,100	20,800
ROWS	30"	30"	30"
FERTILIZER	130-25-80	148-120-120	150-100-100
SOIL TEST: pH	7.1	7.2	7.1
P	90(high)	160(very high)	56(medium)
K	240(high)	120(low)	174(medium)
FARM COOPERATOR:	Strefling Farms, Stephenson		
COUNTY EXTENSION DIRECTOR:	Richard A Breyer, Stephenson		
COOPERATOR:	Dr. Richard Leep, Department of Crop and Soil Sciences, Michigan State University, Marquette		

TABLE 28 (continued)

<u>Bo-Jac Hybrid Corn Co., Mt. Pulaski, IL 62548</u>	
Bo-Jac 117E (2X) (15)	Bo-Jac 603 (2X) (1,3)
Bo-Jac 381 (2X) (15)	Bo-Jac 607 (2X) (6)
Bo-Jac 391 (2X) (1,2)	Bo-Jac 1210 (2X) (15)
Bo-Jac 432 (2X) (1,2,3)	Bo-Jac 1225 (2X) (15)
Bo-Jac 601 (2X) (2)	Bo-Jac 4420 (2X) (1,6)
<u>Callahan Seeds, Westfield, IN 46074</u>	
Callahan C728 (2X) (10,11,13,14)	Callahan C766 (2X) (2,3,6)
Callahan C747 (2X) (1,2,15)	Callahan C771 (2X) (1,10,11)
Callahan C754 (2X) (1,2,3,6,10,11,13,14,15)	Callahan 18460X (2X) (13,14)
<u>Cardinal Seed Co., Chatham, Ontario, Canada N7M 5K3</u>	
Cardinal SX112 (2X) (9,10,11,13,14,15,16,17,18)	Cardinal 3222 (2X) (13,14,15,16,17,18,21,23,24)
Cardinal 2720 (2X) (21)	Cardinal 3590 (2X) (1)
Cardinal 2820 (2X) (13,14,15,16,17,21,23,24)	
<u>Cargill Seeds, Minneapolis, MN 55440</u>	
Cargill HS50A (Sp.) (10,11,13,14,16,17)	Cargill 861 (2X) (1,7,8,9,15)
Cargill 809 (2X) (18,19,20)	Cargill 867 (2X) (7)
Cargill 829 (2X) (10,11,13,14,15,16,17,18,19,20)	Cargill 874 (2X) (1,2,3,4,6,8,9,10,11,13,14,16,17)
Cargill 839 (2X) (15)	Cargill 889 (2X) (1,2,3,4,6)
Cargill 842 (2X) (1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)	Cargill 893 (2X) (1,2,3,6)
Cargill 859 (2X) (2,3,7,8,9,10,11,15,16,17,19,20)	Cargill 921 (2X) (2,6)
<u>Crow's Hybrid Corn Co., Milford, IL 60953</u>	
Crow's 181 (2X) (1,2,4,10,11)	Crow's 431 (2X) (2,4,6)
Crow's 191 (2X) (2,10,11)	Crow's 444 (2X) (1,4,6)
Crow's 199 (2X) (1,2,4)	Crow's 488 (2X) (1)
Crow's 212 (2X) (1,2,4,6,10,11)	Crow's 666 (2X) (6)
<u>Custom Farm Seed, Momence, IL 60954</u>	
CFS W3551 (2X) (13,14)	CFS 5801 (2X) (4,8)
CFS W3759 (2X) (13,14)	CFS 6203 (2X) (3,9,10,11)
CFS W3857 (2X) (13,14)	CFS W7651 (2X) (6)
CFS W5753 (2X) (8,9,10,11)	CFS EW95013 (2X) (3,4,6)
<u>Dairyland Seed Co., West Bend, WI 53095</u>	
Dairyland DX1001 (2X) (1,2,3,4,5,6,7,8,9,10,11,13,14,15,16,17,18,19,22)	Dairyland DX1086 (2X) (18,22,23,24)
Dairyland DX1003 (2X) (8,9,10,11,13,14,15,16,17,18)	Dairyland DX1087 (2X) (18,22,23,24)
Dairyland DX1006 (2X) (6,7,8,9,10,11,13,14,15,16,17)	Dairyland DX1088 (2X) (18,22,23,24)
Dairyland DX1008 (2X) (1,3,6,8,10,11)	Dairyland DX1096 (2X) (8,9,13,14,15,16,17,18,19,22,23,24)
	Dairyland DX1097 (2X) (8,9,13,14,15,16,17,18,19,22,23,24)
	Dairyland DX1102 (2X) (7,8,9,10,11,13,14,15,16,17,18,19)

TABLE 28 (continued)

Glenn & Garno GX904 (2X) (13,14,15,16,17)	Glenn & Garno GX1023 (2X) (1,2,3,4,6,10,11)
Glenn & Garno GX906 (2X) (13,14,15,16,17,18,19,21)	
<u>Great Lakes Hybrids, Inc., Ovid, MI 48866</u>	
Great Lakes GL-188 (MSX) (23,24,27)	Great Lakes GL-490 (2X) (9,10,11,13,14)
Great Lakes GL-192 (MSX) (27)	Great Lakes GL-498 (2X) (4,7,8,9,10,11,13,14,15,16,17,18,19,20)
Great Lakes GL-313 (2X) (23,24,27)	Great Lakes GL-510 (2X) (9)
Great Lakes GL-344 (2X) (27)	Great Lakes GL-516 (2X) (13,14,16,17)
Great Lakes GL-381 (2X) (23,24)	Great Lakes GL-540 (2X) (1,2,3,4,5,6,7,8,10,11,12,13,14,15,16,17)
Great Lakes GL-414 (2X) (13,14,15,16,17,18,19,20,21,23,24,25,26)	Great Lakes GL-547 (2X) (1,6,7,8)
Great Lakes GL-422 (2X) (13,14,16,17,18,21,23,24)	Great Lakes GL-579 (2X) (1,2,3,4,6,8,10,11,13,14,15,16,17)
Great Lakes GL-437 (2X) (8,9,13,14,15,16,17,18,19,20)	Great Lakes GL-599 (2X) (2,16,17)
Great Lakes GL-466 (2X) (8,9)	Great Lakes GL-608 (2X) (6)
Great Lakes GL-487 (2X) (7,9,10,11,13,14,15,16,17,18)	Great Lakes 5922 (2X) (1,2,3,4,5,6,8,9,10,11,12,13,14,15,16,17)
	Great Lakes 82341 (2X) (21,25,26)
<u>Gries Seed Farms, Fremont, OH 43420</u>	
Gries X219 (2X) (13,14,15,16,17)	Gries X580 (2X) (1,2,3,4)
<u>Jacques Seed Co., Prescott, WI 54021</u>	
Jacques JX3 (27)	Jacques 4100 (2X) (25,26)
Jacques JX47 (2X) (23,24,25,26)	Jacques 4200 (2X) (21,25,26)
Jacques JX77 (2X) (16,17)	Jacques 4700 (2X) (20,21,22,23,24,25,26)
Jacques JX97 (2X) (13,14,15,18,20)	Jacques 5400 (2X) (3,8,10,11,15,19)
Jacques JX151 (2X) (9)	Jacques 7700 (2X) (1,2,3,4,6,8,9,10,11)
Jacques Exp. 4098 (13,14,16,17,18,19)	Jacques 7820 (2X) (1,2)
	Jacques 7900 (2X) (4,6)
<u>Jung Farms, Inc., Randolph, WI 53956</u>	
Jung 2000 (2X) (25,26)	Jung 2395 (2X) (25,26)
Jung 2350 (2X) (25,26)	Jung 3000 (2X) (25,26)
<u>King Grain U.S.A., Inc., St. Joseph, MI 49085</u>	
King K416 (2X) (4,7,8,9,10,11,13,14,15,16,17)	King K2203 (2X) (18,19,20,21)
King K1113 (Sp.) (27)	King K2204 (2X) (10,11,13,14,15,16,17,18,19,20,21,22,23,24)
King K1114 (Sp.) (27)	King K4422 (2X) (4,7,8,9,10,11,13,14,15,16,17,18,19,20)
King K1122 (2X) (22,23,24)	King K4464 (2X) (2,3,6,10,11)
King K1124 (2X) (22,23,24,27)	King K4474 (2X) (1,4,7)
King K1163 (2X) (20,21,22,23,24)	King K4484 (2X) (1,2,3,4,6,8,10,11,16,17)
King K1184 (2X) (20,21,22,23,24)	King K5574 (2X) (1,2,3,4,5,6,8,9,10,11,12,13,14,15,16,17)
<u>Land O'Lakes, Inc., Minneapolis, MN 55440</u>	
Land O'Lakes LOL-M822 (25,26)	Land O'Lakes LOL-M1093 (2X) (25,26)
Land O'Lakes LOL-M1085A (2X) (25,26)	Land O'Lakes LOL-1096 (2X) (25,26)

Dairyland DX1012 (2X) (1,2,3,4,6) Dairyland DX1105 (2X) (2,4,8,9,13,14,15)  
 Dairyland DX1013 (2X) (1,2,3,4,6) Dairyland DX1107 (2X) (1,2,3,4,5,6,7,8,  
 9,10,11,15,16,17)  
 Dairyland DX1015 (2X) (1,2,3,4,6) Dairyland DST9504 (2X) (8,9,13,14,15,16,  
 17,18,19,22,23,24)  
 Dairyland DX1017 (2X) (1,2,3,4) Dairyland DST10007 (2X) (7,8,9,10,11,13,  
 14,15,16,17,18,19,22)  
 Dairyland DX1075 (2X) (23,24) Dairyland DST11007 (2X) (1,2,3,4,6,8,10,  
 11)  
 Dairyland DX1081 (2X) (18,22,23,24)  
 Dairyland DX1082 (2X) (23,24)

DeKalb-Pfizer Genetics, DeKalb, IL 60115

DeKalb-Pfizer DK461 (2X) (6,7,8,9, 15,16,17,19) DeKalb-Pfizer DK524 (2X) (6,7,8,9,10,11,  
 12,13,14,15,16,17,18)  
 DeKalb-Pfizer DK484 (2X) (1,3,5,7, 8,10,11,12,15,16,17,19,20) DeKalb-Pfizer DK562 (2X) (1,2,3,4,6,7)  
 DeKalb-Pfizer DK505 (2X) (8,9,15, 16,17,20) DeKalb-Pfizer T1100 (2X) (1,2,3,4,6,7)

Farmers Corn & Chemical Co., Jerome, MI 49249

FCC224A (2X) (1,2,3,10,11,15) FCC5198 (2X) (2,6,15)  
 FCC251 (2X) (1,2,3,6,10,11,15)

Funk Seeds International, Bloomington, IL 61701

Funk 1011X (2X) (16,17,18,19,20,21, 23,24,25,26) Funk G-4217 (2X) (9,10,11,13,14,20,23,  
 24,25,26)  
 Funk RA1404 (2X) (1,3,6) Funk G-4256 (3X) (7,8,10,11,13,14,16,  
 17,18,19,20)  
 Funk 2033X (2X) (7,13,14,15) Funk G-4312 (2X) (1,2,3,4,5,6,7,8,9,10,  
 11,12,13,14,15,16,17,19)  
 Funk 3066X (MSX) (9,15,19) Funk G-4323 (MSX) (1,2,3,8,10,11)  
 Funk G-4081 (MSX) (21,23,24,25, 26,27) Funk G-4326 (2X) (1,2,3,4,6,8,10,11,13,  
 14,15,16,19)  
 Funk G-4083 (2X) (23,24,25,26,27) Funk G-4342 (2X) (2,3,4,5,6,7,8,9,10,11,  
 12,13,14,15,16,17,19)  
 Funk G-4085 (3X) (21,24,25,26,27) Funk G-4440 (2X) (1,2,4,6)  
 Funk G-4141A (MSX) (17,23,24,25,26) Funk G-4514 (2X) (1)  
 Funk G-4211 (2X) (7,8,9,10,11,13, 14,16,17,18,19,20,21,23,24)

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

Super Crost 1621 (2X) (20) Super Crost 2989 (2X) (3,4,10,11,  
 13,14,15)  
 Super Crost 1940 (2X) (13,14,16,17, 18,19,20) Super Crost 3030 (2X) (6,10,11)  
 Super Crost 2288 (2X) (8,9,13,14, 15,16,17,18,19) Super Crost 4304 (2X) (1,3,4,6)  
 Super Crost 2410 (2X) (8,16,17) Super Crost 4337 (2X) (1)  
 Super Crost 5438 (2X) (2)

Garno Seed Co., Palmyra, MI 49268

Garno S-90 (2X) (13,14,21,23,24) Garno S-95X (2X) (15)  
 Garno S-91X (2X) (16,17,18,19,20) Garno S-100X (2X) (1,2,3,4,6,8,9,10,11,  
 13,14)

Glenn & Garno, Inc., Stockbridge, MI 49285

Glenn & Garno GE820 (3X) (22,23,24, 25,26) Glenn & Garno GX920 (2X) (7,13,14,15,  
 16,17,19)  
 Glenn & Garno GS900 (2X) (15,18,20, 21) Glenn & Garno GX960 (2X) (13,14,15,16,  
 17,19)  
 Glenn & Garno GX902 (2X) (13,14,15, 16,17,19,20,22,23,24,25,26) Glenn & Garno GX1007 (2X) (1,2,3,4,6,  
 8,9,10,11,13,14,15)

Leader Seeds, Inc., Celina, OH 45822

Leader SX488 (2X) (1) Leader SX575 (2X) (3,6)  
 Leader SX510A (2X) (1,2,3,6) Leader LSX575 (2X) (1)  
 Leader LSX530 (2X) (2,6)

Maisadour, 40001 Mont-de-Marson Cedex, France

Adour 432 (25,26,27) Adour 833 (25,26,27)  
 Adour 433 (25,26,27) Adour 1818 (27)  
 Adour 777 (27)

McCurdy Seed Co., Fremont, IA 52561

McCurdy 5750 (2X) (1,6) McCurdy 7384 (2X) (1,6)

McKenzie Seed Farm, Breckenridge, MI 48615

McKenzie 501 (MSX) (18,19) McKenzie 507 (2X) (18,19)

MFI-Seeds, Mendon, MI 49072

MFI-1776 (2X) (1,6,8,10,11,15,16, 17,19) MFI-1877 (2X) (1,2,3,4,6)  
 MFI-1812 (2X) (2,3,6,10,11,19) MFI-1900 (2X) (1,2,4)  
 MFI-1834 (2X) (1,2,3,4,5,6,8,10,11, 12,15,16,17,19) MFI-1976 (2X) (2,6)  
 MFI-1855 (2X) (8,10,11,15,16,17,19) MFI-1984 (2X) (1,2,3,4)

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

Wolverine W130 (2X) (13,14,18) Wolverine W174A (2X) (2,4)  
 Wolverine W153 (2X) (16,17,19) Wolverine X193 (2X) (16,17,19)  
 Wolverine W164 (2X) (8,9,13,14,16, 17,18) Wolverine X197 (2X) (16,17)  
 Wolverine W166 (2X) (16,17) Wolverine X198 (2X) (8,9,16,17)  
 Wolverine W168 (2X) (4,9,13,14) Wolverine X1102A (2X) (8,16,17)

National Ag Products, Inc., Byron Center, MI 49315

National Ag NA105 (2X) (8) National Ag NA108 (2X) (8)

North Coast Seed Co., Milan, OH 44846

North Coast 2050 (2X) (1,2) North Coast 2310 (2X) (1,2)  
 North Coast 2100 (2X) (1,2) North Coast 2320 (2X) (1,2)  
 North Coast 2205 (2X) (1,2) North Coast 2340 (2X) (1,2)

Northrup King Co., Minneapolis, MN 55440

Northrup King PX39 (2X) (3,4,8,10 11) Northrup King PX9353 (2X) (3,4,8,10,  
 11,15)  
 Northrup King PX9028 (2X) (21,25,26) Northrup King PX9405 (2X) (3)  
 Northrup King PX9144 (2X) (21) Northrup King PX9410 (2X) (3,8,10,11,  
 15)  
 Northrup King PX9151 (2X) (21,23,24, 25,26,27) Northrup King PX9527 (2X) (2,3,6)  
 Northrup King PX9242 (2X) (15,16, 17,18,20,21) Northrup King PX9540 (2X) (2,3)  
 Northrup King PX9290 (2X) (15) Northrup King PX9902 (3X) (23,24,25,26)  
 Northrup King PX9345 (2X) (3,4,5,7, 8,10,11,12,15,16,17,18)

L. L. Olds Seed Co., Madison, WI 53791

Olds L-1075 (25,26) Olds L-1085 (25,26)  
 Olds L-1080A (25,26)

TABLE 28 (continued)

P-A-G Seeds, Minneapolis, MN 55440

P-A-G SX123 (2X) (13,14,16,17,20)  
 P-A-G SX175 (2X) (13,14,16,17)  
 P-A-G SX180 (2X) (8,13,14,15,16,  
 17,19,20)  
 P-A-G SX182 (2X) (8,13,14,15,16,  
 17,19)  
 P-A-G SX193 (2X) (7)  
 P-A-G SX239 (2X) (4,7,10,11,15)

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

Parker 29A (2X) (2,6,7)  
 Parker 31 (2X) (2,3)

Payco Seeds, Dassel, MN 55325

Payco SX342 (2X) (23,24,25,26)  
 Payco SX431 (2X) (21)  
 Payco SX500 (2X) (9,15,16,17,18,19,  
 20,21,23,24)  
 Payco SX620 (2X) (1,2,3,4,5,6,7,8,  
 9,10,11,12,13,14,15,16,17,18,19,  
 20,21)  
 Payco SX710 (2X) (1,2,3,8,10,11,15)

Paymaster Seeds, Minneapolis, MN 55440

Paymaster 1690 (2X) (16,17)  
 Paymaster 1990 (2X) (16,17)  
 Paymaster 2890 (2X) (4,10,11)

Otto Pick & Sons Seeds, Richmond Hill, Ontario, Canada L4C 4X9

Pickseed 14-102 (2X) (1,4,8,9,10,11)  
 Pickseed 2555 (2X) (27)  
 Pickseed 2666 (MSX) (23,24,25,26)

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

Pioneer 3475 (2X) (1,2,3,4,6,7)  
 Pioneer 3540 (2X) (1,2,3,4,6,7,8,  
 9,10,11)  
 Pioneer 3707 (2X) (1,2,3,4,6,7,8,  
 9,10,11)  
 Pioneer 3737 (2X) (1,2,3,4,5,6,7,8,  
 9,10,11,12,13,14,15,16,17,18,19,  
 20,25,26)  
 Pioneer 3744 (2X) (1,2,3,4,5,6,7,8,  
 9,10,11,12,13,14,15,16,17,18,19,20)  
 Pioneer 3747 (2X) (13,14,15,16,17,  
 18,19,20)

Prairie Stream Hybrids, Frankfort, IN 46041

Prairie Stream SX350 (2X) (6)

P-A-G SX267 (2X) (1,2,3,10,11)  
 P-A-G SX269 (2X) (2,3,6)  
 P-A-G SX275 (2X) (1,6)  
 P-A-G SX297 (2X) (2,3,6)  
 P-A-G SX310 (2X) (2,4,6)

Parker 32 (2X) (3,6)  
 Parker 60A (2X) (6)

Payco SX788 (2X) (4,7,20)  
 Payco SX847 (2X) (4)  
 Payco SX860 (2X) (2,3,10,11)  
 Payco SX872 (2X) (1,2,6,7,8,9,10,11)

Paymaster 2990 (2X) (1,3,4,6,10,11)  
 Paymaster 4790 (2X) (1,3,6)

Pickseed 4555 (2X) (21,23,24,25,26)  
 Pickseed 5575 (2X) (13,14,15,16,17,  
 18,19,20)

Pioneer 3779 (2X) (13,14,15,16,17,18,  
 19,20,22,23,24)  
 Pioneer 3803 (2X) (22,23,24,25,26)  
 Pioneer 3901 (2X) (13,14,15,16,17,18,  
 19,20,22,23,24,25,26)  
 Pioneer 3906 (2X) (25,26)  
 Pioneer 3930 (2X) (22,23,24)  
 Pioneer 3949 (2X) (22,23,24)

Prairie Stream SX485 (2X) (6)

TABLE 28 (continued)

Sohigro Service Co., Lima, OH 45802

Sohigro S-15 (2X) (16,17)  
 Sohigro S-17 (2X) (16,17)  
 Sohigro S-25 (2X) (15,16,17)  
 Sohigro S-28 (2X) (15,16,17)  
 Sohigro S-29 (2X) (4,15,16,17)

Sohigro S-32 (2X) (1,15)  
 Sohigro S-35 (2X) (1,16,17)  
 Sohigro S-39 (2X) (16,17)  
 Sohigro S-40 (2X) (1,4,16,17)  
 Sohigro S-48 (2X) (1,4)

Sommer Bros, Seed Co., Pekin, IL 61554

Golden Harvest EX530 (2X) (1,3,15)  
 Golden Harvest EX590 (2X) (13,14,15)  
 Golden Harvest EX786 (2X) (25,26)  
 Golden Harvest H-2300 (3X) (7,9,20,  
 22,23,24)  
 Golden Harvest H-2344 (2X) (7,9,13,  
 14,15,16,17,20,22,23,24)  
 Golden Harvest H-2424 (2X) (10,11,  
 15)  
 Golden Harvest H-2440 (2X) (7)

Golden Harvest H-2448 (2X) (2,3,4,6,  
 10,11,19)  
 Golden Harvest H-2465 (2X) (4,8)  
 Golden Harvest H-2480 (2X) (1,2,3,8,  
 9,12,15,16,17,19)  
 Golden Harvest H-2535 (2X) (1,3)  
 Golden Harvest H-2572 (2X) (1,2,3,4,  
 8,10,11,13,16,17)  
 Golden Harvest H-2604 (2X) (1,4,10,11)

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

Stanton SX90 (2X) (8,9,10,11,13,14,  
 15,16,17,18,19,21)  
 Stanton SX95 (2X) (8,9,10,11,13,14,  
 15,16,17,18,19)

Stanton SX100 (2X) (8,9,10,11,13,14,  
 15,16,17,18,19)  
 Stanton 1080 (4X) (21,22,23,24)  
 Stanton 1085 (4X) (21,22,23,24)

Stauffer Seeds, Inc., Madison, WI 53711

Stauffer Seeds S2101WX (2X) (21)  
 Stauffer Seeds S2206 (2X) (13,14,16,  
 17,18,19)  
 Stauffer Seeds S3303 (2X) (10,11,13,  
 14,15,16,17,19)  
 Stauffer Seeds S3306 (2X) (8,9,10,  
 11,13,14,15,16,17,18,19,20)  
 Stauffer Seeds S3406WX (2X) (8,18)  
 Stauffer Seeds S4402 (2X) (9,13,14,  
 15,16,17)  
 Stauffer Seeds S4414 (2X) (6,8,9,10,  
 11,13,14,15,16,17,18,19)  
 Stauffer Seeds S4454WX (2X) (6,8,9,  
 10,11,13,14,15,16,17,18,19)  
 Stauffer Seeds S5260 (2X) (1,2)

Stauffer Seeds S5340 (2X) (1,2,3,4,5,  
 6,8,9,10,11,12,13,14,15,16,17)  
 Stauffer Seeds S5650 (2X) (1,2,3,4,5,  
 6,8,9,10,11,12,13,14,15,16,17)  
 Stauffer Seeds S5722WX (2X) (6,8)  
 Stauffer Seeds S5750 (2X) (1,6,10,11,  
 13,14,16,17)  
 Stauffer Seeds S6595 (2X) (6)  
 Stauffer Seeds S6596 (2X) (1)  
 Stauffer Seeds S6707WX (2) (6,10,11,  
 16,17)  
 Stauffer Seeds S7759 (2X) (1,10,11,16,  
 17)

Voris Seeds, Inc., Windfall, IN 46076

Voris Exp. 0100 (Sp.) (13,14,15)  
 Voris Exp. 1211 (2X) (6)  
 Voris Exp. 1224 (2X) (1)

Voris V2451 (2X) (4,7,10,11,13,14,15)  
 Voris V2471 (2X) (1,4,6,10,11,15)  
 Voris V2491 (2X) (1)

Whitney Dickinson Seeds, Buffalo, NY 14240

Pride 1142 (2X) (21)  
 Pride 1194 (2X) (21)

Pride 4422 (2X) (8,9,10,11,13,14,15,16,  
 17,18,19)

Pro-Seed, Inc., Blissfield, MI 49228

Pro-Seed LG-22 (2X) (1,10,11)  
Pro-Seed HL-2444 (2X) (3,10,11)  
Pro-Seed HL-2454 (2X) (3,10,11)  
Pro-Seed HL-2727 (2X) (3)

Pro-Seed HL-2727A (MSX) (1,10,11)  
Pro-Seed HL-2803 (2X) (1,3)  
Pro-Seed HL-2823 (2X) (1)  
Pro-Seed HL-2830 (2X) (1,3,10,11)

Pride 2244 (2X) (21)

Pride 3376 (2X) (8,9,10,11,13,14,15,  
16,17,18,19)

Pride 4474 (2X) (8,9,10,11,13,14,15,16,  
17,18,19)

Pride 6692 (2X) (1,2,3,4)

Pride 7705 (2X) (1,2,3,4)

Renk Seed Co., Sun Prairie, WI 53559

Renk RK17A (2X) (15,16,17)  
Renk RK19 (2X) (10,11,15,16,17)  
Renk RK25 (2X) (6,10,11,15,16,17)  
Renk RK60 (2X) (1,3,6,10,11,15,  
16,17)

Renk RK64 (2X) (1,3,6,10,11,15,16,17)  
Renk RK66 (2X) (1,3,6,10,11,12,15,16,17)  
Renk RK76 (2X) (1,3,6,10,11,15,16,17)  
Renk R148 (3X) (10,11,15,16,17)

Rupp Seeds, Inc., Wauseon, OH 43567

Rupp XR1602 (2X) (1,2,3,4,6,8,10,  
11,15,18)  
Rupp XR1639 (2X) (1,2,3,4,6,8,10,  
11,15,18)  
Rupp XR1690 (2X) (1,2,3,4,6,8,10,  
11,15,18)

Rupp XR1707 (2X) (1,2,3,4,6,8,10,11,15,  
18)  
Rupp XR1780 (2X) (1,2,3,4,6)  
Rupp XR1829 (2X) (1,2,3,4,6)

Select Seed Hybrids, Camden, IN 46917

Select 2747 (2X) (16,17)  
Select 3100 (2X) (10,11,15,16,17)  
Select 3300 (2X) (3,4,10,11,15,16,  
17)  
Select 3720 (2X) (1,3,4,6,10,11,15,  
16,17)

Select 4144 (2X) (1,4,6)  
Select 4701 (2X) (1,3,4,6,10,11,15)  
Select 4800 (2X) (3)  
Select 4905 (2X) (1,6)  
Select 5040 (2X) (3,4)  
Select 5188 (2X) (1,6)



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

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