

1988



Michigan Corn Production

H Y B R I D S C O M P A R E D

## Michigan Corn Production

# HYBRIDS COMPARED 1988

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

**Authors are, respectively, Professor,  
Research Technician, Research Aide,  
and Associate Professor, Crop and  
Soil Sciences Department.**

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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 1987 trials produced 30 bushels more corn per acre than the average of the 358 hybrids tested (Table A) and 62 bushels more than the lowest yielding hybrids. At 18 testing locations, the yields were 158 bushels for the highest, 128 bushels for the average and 96 bushels for the lowest yielding hybrids. The driest hybrids at harvest contained 8 percent less moisture than the wettest hybrids tested. Stalk breakage averaged 11 percent for hybrids with the highest amount of stalk lodging, 4 percent for the average and 0.3 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 25 presents an index of all hybrids entered in the 1987 trials. At the 18 locations, 358 hybrids were tested as 1,915 entries. Company names used in association with hybrid numbers refer to the brand. The number is the hybrid designation. Single-cross hybrids are indicated with (2X), three-way hybrids with (3X), double-cross hybrids with (4X), modified single-cross hybrids with (MSX) and special cross hybrids with (Sp) following the hybrid name and number in the index (Table 25).

### Methods

Scientific 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, and Alger counties (Tables 10, 12, 15, 20, 22 and 24).

Irrigated and non-irrigated comparisons were made in the Montcalm County trial (Table 17). There were two locations in Cass County—upland soil with irrigation (Table 5) and muck soil (Table 6). The trial in Hillsdale County (Table 2) was also irrigated.

The two trials in the Upper Peninsula, Menominee and Alger counties, were failures due to deer damage and poor stands. Tables 23 and 24 present 1986, 1985 and 1984 data for these two locations.

### Growing Conditions

All planting was completed between April 25 and May 27. Planting was timely and ahead of normal at most locations. The growing season was warmer than normal and corn grew rapidly.

Plant height averaged 45 inches by July 5

compared to 26 last year and 25 for the 5-year average, and some tasseling was reported. During the next two weeks, average height increased to 67 inches compared to 53 last year and 48 for the 5-year average. Eighty-five percent of the crop was silked by July 26 compared to 55 percent in 1986 and 45 percent for the 5-year average.

Temperatures in the 90's and below normal rainfall during the last half of July and the first half of August reduced yields at several locations, notably Kalamazoo and Huron county trials.

Corn matured rapidly. Seventy-five percent was dented by August 30. This compared to 20 percent in 1986 and for the 5-year average. Practically all corn matured before any killing frost occurred.

Moisture content of grain at harvest was much lower than average for Michigan. Quality of grain was excellent with high test weight.

Total corn acreage was 2,300,000, down 18% from 1986 and 25% less than 1985. The Michigan Crop Reporting Service estimates a state average yield of 95 bushels per acre in 1987 on 1,950,000 acres harvested for grain. Total production is estimated at 185,250,000 bushels, 28 percent less than 1986. State average yields were 105 in 1986 and 1985, 84 in 1984, 92 in 1983 and 107 (highest on record) in 1982.

## How To Use This Bulletin

One-, two- and three-year averages are presented for all hybrids tested during 1987, 1986 and 1985. 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 percent 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 1987.

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

## How to Choose a Hybrid

### Adaptation

The following map shows the location of the trials and divides Michigan into four maturity zones, but 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.



Corn Maturity Zones and Locations (\*) of Trials

## 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 of 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 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 1988**

Use the following recommendations to help prevent moldy corn in 1988.

- 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 1988**

Production of hybrid seed corn in 1987 was good to very good. Seed supplies of most hybrids should be adequate for 1988 planting.

**TABLE A. AVERAGE, HIGHEST AND LOWEST GRAIN YIELD,  
MOISTURE CONTENT AND STALK LODGING AT 18 LOCATIONS IN 1987**

LOCATION-COUNTY	NO. OF HYBRIDS	BUSHELS PER ACRE			% MOISTURE			% STALK LODGING		
		AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST
MONROE	127	144	175	111	19	25	18	6	13	1
HILLSDALE-IRRIGATED	96	127	161	92	21	24	17	6	16	2
BRANCH	128	150	183	114	21	24	17	3	8	0
KALAMAZOO	108	76	99	46	21	23	18	4	8	0
CASS-UPLAND-IRRIGATED	106	167	213	134	25	29	21	2	6	0
CASS-MUCK SOIL	54	143	176	120	22	26	18	1	4	0
KENT	80	117	148	81	20	23	17	2	6	0
OTTAWA	79	103	139	76	21	25	17	5	14	0
5 INGHAM	107	135	164	100	22	27	18	6	38	0
SANILAC	106	135	167	106	26	31	21	1	4	0
SAGINAW	122	135	159	100	21	24	18	4	13	0
HURON	102	68	97	41	22	25	19	3	17	0
ISABELLA	81	136	164	107	19	22	17	4	12	1
MONTCALM-IRRIGATED	63	171	211	137	21	24	18	6	12	1
MONTCALM- NOT IRRIGATED	63	79	104	56	21	24	18	1	4	0
OCEANA	45	158	181	119	20	23	18	3	8	0
GRAND TRAVERSE	33	114	139	82	24	31	20	2	5	0
ALPENA	39	139	165	101	23	29	19	2	6	0
<b>AVERAGE</b>	—	<b>128</b>	<b>158</b>	<b>96</b>	<b>22</b>	<b>26</b>	<b>18</b>	<b>3</b>	<b>11</b>	<b>.3</b>

TABLE 01

SOUTHERN MICHIGAN  
Monroe County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
NORTH COAST 2040	17.8	--	--	123.8	--	--	6.7	--	--
PIONEER 3737	18.1	20	20	126.2	149	153	8.2	6	5
COUNTRYMARK C343X	18.5	--	--	119.3	--	--	9.7	--	--
TERRA TR29	18.5	--	--	135.4	--	--	8.9	--	--
CROW'S 199	18.5	20	20	135.9	153	156	6.7	7	6
PAYCO SX686	18.5	--	--	129.5	--	--	9.6	--	--
BECK'S 39X	18.7	--	--	155.2	--	--	6.9	--	--
NORTH COAST 2080	18.8	21	--	153.4	150	--	4.4	4	--
VORIS V2465	18.8	--	--	119.7	--	--	8.2	--	--
PIONEER 3744	18.9	20	21	127.2	146	152	6.8	4	5
CROW'S 181	19.0	20	20	121.0	146	152	7.5	7	6
ASGROW/O'S GOLD RX578	19.1	--	--	156.4	--	--	4.4	--	--
GLENN-GARNO 1003	19.2	--	--	141.0	--	--	8.1	--	--
TERRA TR32	19.3	--	--	137.1	--	--	4.5	--	--
STAUFFER SEEDS S4590	19.4	--	--	119.0	--	--	9.3	--	--
PRO-SEED PS2094	19.4	--	--	115.8	--	--	8.5	--	--
GLENN-GARNO 900X	19.4	--	--	150.7	--	--	6.6	--	--
KING K4484	19.5	21	22	151.1	165	173	5.9	5	4
KING K4464	19.5	21	--	124.9	140	--	3.6	4	--
TERRA TR3102	19.5	--	--	134.2	--	--	6.7	--	--
STAUFFER SEEDS S4474	19.7	--	--	144.5	--	--	7.9	--	--
TERRA TR975	19.7	--	--	140.0	--	--	6.4	--	--
CROW'S 210	19.7	--	--	111.2	--	--	3.5	--	--
*NORTHTRUP KING X4325	19.8	--	--	159.2	--	--	3.7	--	--
RENK RK25	19.8	21	--	135.8	150	--	3.0	2	--
GREAT LAKES GL-509	19.9	--	--	152.3	--	--	11.2	--	--
ASGROW/O'S GOLD RX626	19.9	--	--	136.1	--	--	9.0	--	--
DEKALB-PFIZER DK524	20.0	--	--	141.7	--	--	0.7	--	--
GLENN-GARNO 1005	20.0	--	--	155.6	--	--	1.5	--	--
CALLAHAN 19925X	20.0	--	--	148.0	--	--	8.3	--	--
NORTH COAST 2320	20.1	22	22	144.3	161	170	8.8	6	7
CROW'S 344	20.1	22	--	124.6	145	--	8.8	6	--
RENK RK27	20.2	--	--	146.9	--	--	5.9	--	--
CROW'S 442	20.2	22	--	137.2	159	--	6.2	6	--
BECK'S 52X	20.2	--	--	144.9	--	--	8.2	--	--
CALLAHAN 19097X	20.2	--	--	156.9	--	--	4.4	--	--
TERRA TR3200	20.3	--	--	151.6	--	--	7.2	--	--
*DEKALB-PFIZER DK547	20.4	--	--	170.8	--	--	3.9	--	--
*GREAT LAKES GL-584	20.4	--	--	161.9	--	--	7.9	--	--
*PIONEER 3475	20.4	21	21	160.8	174	167	6.8	5	3
ANDERSONS QSX105	20.4	--	--	130.4	--	--	8.2	--	--
CROW'S 444	20.4	22	22	147.5	171	173	5.8	6	5
PRIDE 5547	20.5	--	--	136.4	--	--	4.4	--	--
PRO-SEED PS2100	20.7	--	--	133.9	--	--	4.3	--	--
*AGRIPRO HP470	20.8	--	--	171.4	--	--	6.6	--	--
RENK R148	20.9	22	--	132.1	153	--	8.9	7	--
*SELECT 4701	21.0	23	23	163.3	162	169	9.8	7	6
CROW'S 482	21.0	--	--	125.7	--	--	7.9	--	--
PAYCO SX786	21.0	--	--	130.5	--	--	8.0	--	--
BECK'S 51X	21.0	21	22	140.7	149	162	6.6	6	5

(continued below)

VORIS V2515	22.5	--	--	134.9	--	--	2.2	--	--
*RENK RK68	22.6	23	--	164.2	179	--	5.0	5	--
TERRA TR3203	22.7	--	--	148.3	--	--	4.3	--	--
*PIONEER 3352	23.0	24	--	162.7	175	--	2.2	3	--
*SELECT 5188	23.0	23	25	163.4	180	184	3.8	4	3
STAUFFER SEEDS S7751	23.1	24	--	143.8	154	--	6.9	8	--
GOLDEN HARVEST H-2572	23.3	25	25	147.9	160	166	4.4	4	3
KING K647	23.4	24	--	117.5	150	--	5.6	5	--
*CARGILL 7877	23.4	--	--	162.8	--	--	3.6	--	--
NORTH COAST 2515	23.5	24	--	121.2	154	--	12.3	10	--
GREAT LAKES GL-599	23.6	25	--	156.6	173	--	3.7	4	--
*RENK RK76	23.6	24	25	159.4	184	186	3.5	5	3
SELECT 5040	23.9	25	--	138.6	156	--	10.5	7	--
*PRO-SEED EXP.17111	24.0	--	--	160.5	--	--	2.9	--	--
DAIRYLAND DX1015	24.1	--	--	148.2	--	--	6.0	--	--
PRIDE 7705	24.3	24	25	150.0	179	180	3.0	4	3
DAIRYLAND DX1017	24.6	26	26	153.5	180	176	6.9	5	4
AVERAGE	19.1	23	23	144.0	162	168	6.3	5	4
RANGE	17.8	20	20	111.2	140	142	0.7	2	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	24.6	26	26	174.5	184	186	13.1	10	7
LEAST SIGNIFICANT DIFFERENCE	1.2	1.0	0.9	15.1	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 1	May 5	May 5
HARVESTED	October 15	October 28	October 26
SOIL TYPE	Brookston loam	Brookston loam	Brookston loam
PREVIOUS CROP	Corn	Wheat	Wheat-Clover sod
POPULATION	21,600	21,800	22,100
ROWS	30"	30"	30"
FERTILIZER	184-104-180	170-68-90	220-72-240
SOIL TEST: pH	6.8	6.8	6.3
P	85 (high)	97 (high)	218 (very high)
K	278 (high)	128 (low)	435 (very high)

FARM COOPERATOR: Gerald Heath, Milan

COUNTY AGRICULTURAL AGENT: David Pratt, Monroe

CARGILL 893	21.1	--	--	157.5	--	--	8.7	--	--
LEADER SX575	21.2	23	24	148.7	172	179	6.7	5	5
CARGILL 6127	21.3	--	--	138.7	--	--	6.0	--	--
RENK RK73	21.3	--	--	123.2	--	--	8.9	--	--
*RUPP XR1639	21.3	22	22	163.9	170	160	1.5	5	4
*GOLDEN HARVEST H-2465	21.5	--	--	168.0	--	--	3.8	--	--
NORTHROP KING PX9470	21.4	23	--	133.4	158	--	5.9	5	--
AGRIPRO 680	21.4	--	--	131.6	--	--	7.6	--	--
NORTH COAST 2310	21.4	22	23	128.9	150	164	7.3	5	5
SELECT 3720	21.4	22	23	137.0	157	170	5.3	5	4
STAUFFER SEEDS S5340	21.5	23	23	140.6	157	159	13.1	9	7
LEADER SX535	21.5	--	--	144.9	--	--	5.3	--	--
KING K5574	21.5	22	23	130.9	166	176	5.0	3	2
COUNTRYMARK C565X	21.5	23	--	141.7	152	--	7.3	5	--
TERRA TR262E	21.5	--	--	146.5	--	--	5.9	--	--
*TERRA TR1040	21.5	--	--	160.3	--	--	6.6	--	--
RENK RK64	21.5	22	23	150.3	159	170	5.6	9	7
MCCURDY 5750	21.5	23	23	124.8	150	166	8.7	7	6
*CROW'S 488	21.5	23	24	164.5	175	177	6.6	4	3
*SUPER CROST 2989	21.6	22	--	164.4	172	--	6.1	5	--
GREAT LAKES GL-582	21.6	--	--	154.6	--	--	6.1	--	--
NORTH COAST 2340	21.6	23	24	146.9	173	167	2.2	3	3
TERRA TR1060	21.6	--	--	144.0	--	--	6.1	--	--
CARGILL 130410	21.6	--	--	120.7	--	--	3.8	--	--
DAIRYLAND DX1013	21.6	23	23	127.1	142	142	5.2	4	3
ANDERSONS PSX110	21.6	--	--	154.9	--	--	5.1	--	--
GLENN-GARNO 1007	21.6	23	23	158.9	170	173	8.1	5	5
STAUFFER SEEDS S5750	21.7	23	23	124.6	145	150	6.8	8	7
GRIES GSFX580	21.7	23	23	157.4	167	170	4.7	4	3
*GREAT LAKES GL-579	21.7	22	23	159.4	173	176	5.7	6	4
PRO-SEED EXP.4186	21.7	--	--	118.1	--	--	7.6	--	--
PRO-SEED PS2104	21.7	--	--	128.5	--	--	6.8	--	--
GARST 8555	21.7	--	--	127.4	--	--	6.8	--	--
SELECT 4144	21.7	23	24	141.2	161	161	5.9	4	2
SELECT 4580	21.7	--	--	141.2	--	--	5.8	--	--
*GLENN-GARNO 1012	21.7	--	--	173.8	--	--	4.5	--	--
*DEKALB-PFIZER DK572	21.8	23	--	160.3	174	--	7.2	7	--
*NORTH COAST 2412	21.8	23	--	165.1	177	--	4.6	5	--
DAIRYLAND DX1103	21.8	--	--	130.2	--	--	7.0	--	--
DAIRYLAND DX1108	21.8	23	--	126.6	140	--	4.9	4	--
JACQUES 7700	21.9	23	23	141.3	161	171	5.3	5	3
AGRIPRO 644	21.9	--	--	125.5	--	--	6.6	--	--
KING K596	21.9	24	--	146.7	162	--	10.3	7	--
DAIRYLAND DX1107	21.9	23	23	152.5	162	168	9.8	7	5
*GREAT LAKES 5922	21.9	23	24	168.9	181	182	3.4	3	3
*PIONEER 3540	22.0	23	23	166.8	180	181	4.5	3	2
AGRIPRO 710A	22.0	--	--	142.5	--	--	10.3	--	--
*PRIDE 6656	22.0	23	--	163.5	171	--	4.4	6	--
PRO-SEED PS2110	22.0	--	--	140.3	--	--	8.6	--	--
*GARST 8589	22.0	--	--	174.5	--	--	9.8	--	--
TERRA TR1125	22.0	--	--	136.7	--	--	8.9	--	--
CARGILL 7567	22.0	--	--	152.1	--	--	3.6	--	--
JACQUES 7770	22.1	--	--	136.6	--	--	6.2	--	--
*SELECT 4972	22.1	--	--	172.1	--	--	2.9	--	--
ANDERSONS PSX107	22.1	23	--	128.4	146	--	5.3	8	--
LYNKS LX4235	22.1	--	--	142.0	--	--	6.9	--	--
*BECK'S 64XA	22.1	24	--	173.4	183	--	6.8	7	--
GRIES GSFX622A	22.2	--	--	157.4	--	--	4.5	--	--
VORIS V2491	22.2	23	25	145.2	171	171	4.4	3	2
PRO-SEED EXP.4986	22.5	--	--	128.4	--	--	12.9	--	--

(continued top right)

TABLE 02

SOUTHERN MICHIGAN  
Hillsdale County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2 YR	3 YR	1987	2 YR	3 YR	1987	2 YR	3 YR
COUNTRYMARK C343X	17.4	--	--	92.4	--	--	11.2	--	--
PIONEER 3737	17.5	20	20	126.6	132	138	8.8	8	6
PAYCO SX686	17.7	--	--	107.4	--	--	11.0	--	--
GLENN-GARNO 900X	18.5	--	--	126.9	--	--	9.8	--	--
BETAGOLD HEIDI	18.6	--	--	136.9	--	--	8.1	--	--
CROW'S 199	18.8	20	20	137.7	145	149	9.4	8	6
PIONEER 3744	18.9	21	21	130.3	146	153	5.2	9	6
GLENN-GARNO 1003	19.0	--	--	128.9	--	--	7.4	--	--
MAUMEE VALLEY MV-509	19.2	--	--	106.7	--	--	9.3	--	--
*MAUMEE VALLEY MV-630	19.7	21	--	148.8	134	--	10.7	9	--
*MAUMEE VALLEY MV-611	19.8	21	--	143.2	132	--	7.9	7	--
CROW'S 210	19.8	--	--	107.6	--	--	8.9	--	--
BETAGOLD EXP.392	19.9	--	--	140.3	--	--	3.0	--	--
GLENN-GARNO 1005	20.0	--	--	113.4	--	--	5.9	--	--
ASGROW/O'S GOLD RX578	20.1	--	--	122.2	--	--	6.5	--	--
CARGILL 130411	20.1	--	--	96.8	--	--	16.4	--	--
*NORTHROP KING X4325	20.2	--	--	143.2	--	--	2.9	--	--
DEKALB-PFIZER DK524	20.3	--	--	123.7	--	--	5.8	--	--
ANDERSONS PSX100	20.3	23	--	117.6	138	--	8.6	7	--
SUPER CROST 2989	20.5	22	--	125.7	143	--	8.5	7	--
CARGILL 5157	20.5	--	--	123.5	--	--	11.8	--	--
KING K5574	20.7	22	22	117.7	139	147	6.2	5	5
RUPP XR1639	20.7	22	23	129.5	143	156	8.3	8	6
*CROW'S 444	20.7	22	--	147.3	145	--	6.1	6	--
CROW'S 212	20.7	22	21	111.4	137	141	6.8	4	3
GOLDEN HARVEST H-2492	20.8	--	--	136.9	--	--	8.2	--	--
DEKALB-PFIZER DK547	20.9	22	--	135.2	153	--	9.4	7	--
LEADER SX575	20.9	--	--	135.2	--	--	6.0	--	--
COUNTRYMARK C565X	20.9	22	--	109.7	132	--	13.1	8	--
*CARGILL 6127	21.0	--	--	153.6	--	--	7.6	--	--
PARKER 52A	21.0	--	--	117.9	--	--	5.9	--	--
CARGILL 130410	21.1	--	--	125.7	--	--	5.9	--	--
GLENN-GARNO 1007	21.1	22	22	131.7	152	160	5.1	8	6
SUPER CROST 4304	21.2	23	--	123.6	147	--	5.9	6	--
*PRIDE 6656	21.2	23	--	147.5	149	--	4.7	6	--
CROW'S 482	21.2	--	--	133.4	--	--	5.0	--	--
GOLDEN HARVEST H-2465	21.2	--	--	131.8	--	--	5.1	--	--
BECK'S 51X	21.2	23	22	112.4	139	144	5.5	4	3
LEADER SX535	21.3	--	--	96.6	--	--	5.3	--	--
*PIONEER 3475	21.3	22	22	145.1	162	172	4.4	5	4
ASGROW/O'S GOLD RX626	21.3	--	--	105.1	--	--	9.7	--	--
GARST 8555	21.3	--	--	137.6	--	--	5.4	--	--
*CROW'S 488	21.3	--	--	144.7	--	--	5.1	--	--
DEKALB-PFIZER DK572	21.4	22	--	136.0	141	--	5.0	4	--
NORTHROP KING PX9470	21.4	22	--	137.6	152	--	6.8	5	--
GRIES GSFX580	21.5	23	23	134.8	136	141	6.0	6	5
MCCURDY 5750	21.5	--	--	138.0	--	--	6.9	--	--
PAYCO SX872	21.5	22	22	106.2	134	140	7.5	6	5
PAYCO SX786	21.5	--	--	117.7	--	--	7.5	--	--
AGRIPRO 680	21.6	22	--	102.1	129	--	6.0	5	--

(continued next page)

TABLE 02 (CONTINUED)

SOUTHERN MICHIGAN  
Hillsdale County Trial  
ZONE 1  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	YR
LEADER LSX530	21.7	22	22	116.9	145	156	3.1	3	2
GREAT LAKES GL-582	21.7	--	--	133.7	--	--	7.4	--	--
MAUMEE VALLEY MV-812	21.7	--	--	119.8	--	--	7.5	--	--
CARGILL 893	21.7	--	--	133.7	--	--	4.4	--	--
*GLENN-GARNO 1012	21.7	--	--	142.9	--	--	11.8	--	--
JACQUES 7700	21.8	23	22	108.0	129	147	7.6	6	5
*GREAT LAKES GL-579	21.8	22	23	149.4	160	168	4.1	4	3
*PIONEER 3540	21.8	23	22	140.7	154	160	4.6	4	3
MAUMEE VALLEY MV-762	21.8	22	--	138.1	149	--	6.6	7	--
GARST 8589	21.8	--	--	133.8	--	--	4.5	--	--
DAIRYLAND DX1108	21.8	23	--	107.0	128	--	8.6	7	--
ANDERSONS PSX103	21.8	--	--	132.4	--	--	5.1	--	--
*DAIRYLAND DX1107	21.9	23	23	150.9	156	165	1.5	5	4
DAIRYLAND DX1103	21.9	--	--	114.4	--	--	9.4	--	--
GRIES GSF662A	22.0	--	--	134.5	--	--	7.2	--	--
GREAT LAKES GL-584	22.0	--	--	138.9	--	--	9.1	--	--
PRIDE 5547	22.0	--	--	127.9	--	--	8.3	--	--
CALLAHAN C766	22.0	25	25	108.4	125	144	5.1	6	5
ANDERSONS PSX107	22.1	23	--	119.3	131	--	3.0	3	--
MCCURDY 5990	22.2	--	--	127.1	--	--	5.1	--	--
MAUMEE VALLEY MV-851	22.3	24	--	128.3	135	--	7.4	6	--
*PARKER 400	22.3	24	--	149.6	149	--	2.9	4	--
*GREAT LAKES 5922	22.3	23	23	156.0	163	168	2.5	2	2
JACQUES 7770	22.4	--	--	133.8	--	--	7.0	--	--
*PIONEER 3352	22.5	24	--	144.1	172	--	5.0	3	--
DAIRYLAND DX1013	22.5	24	24	131.9	136	146	5.8	5	3
ANDERSONS PSX110	22.5	24	24	108.6	135	137	4.7	3	2
*BECK'S 64XA	22.5	25	--	146.7	171	--	4.6	4	--
*CALLAHAN 19101X	22.6	--	--	145.2	--	--	4.5	--	--
GREAT LAKES 87656	22.9	--	--	135.7	--	--	6.3	--	--
AGRIPRO AP510	23.0	--	--	121.8	--	--	2.8	--	--
*CARGILL 937	23.0	--	--	157.9	--	--	7.1	--	--
*GOLDEN HARVEST H-2572	23.0	24	24	146.6	161	164	5.3	5	4
LYNKS LX4304	23.1	--	--	123.6	--	--	3.0	--	--
BECK'S 63X	23.1	--	--	132.0	--	--	2.5	--	--
*MAUMEE VALLEY MV-910	23.4	--	--	150.6	--	--	2.9	--	--
MAUMEE VALLEY MV-888	23.4	--	--	138.3	--	--	7.1	--	--
*CARGILL 7877	23.4	--	--	161.0	--	--	3.1	--	--
AGRIPRO 710A	23.5	24	--	126.1	153	--	10.1	6	--
NORTHROP KING PX9540	23.6	24	25	119.9	148	145	5.2	6	4
PRIDE 7705	23.7	25	25	124.4	144	154	6.0	7	5
KING K647	23.7	25	--	121.3	127	--	4.5	5	--
*DAIRYLAND DX1017	23.7	25	25	159.5	168	161	4.6	5	3
DAIRYLAND DX1015	23.8	--	--	137.6	--	--	5.1	--	--
*ASGROW/O'S GOLD RX788	24.2	--	--	143.8	--	--	6.9	--	--
PARKER 63	24.2	--	--	121.6	--	--	3.9	--	--
AVERAGE	21.3	23	23	127.3	144	152	6.4	6	4
RANGE	17.4	20	20	92.4	125	137	1.5	2	2
	24.2	25	25	161.0	172	172	16.4	9	6

(continued below)

TABLE 03

SOUTHERN MICHIGAN  
Branch County Trial  
ZONE 1  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	YR
TERRA TR29	17.4	--	--	121.5	--	--	5.8	--	--
COUNTRYMARK C343X	17.5	--	--	130.1	--	--	3.0	--	--
CARGILL 3537	17.8	--	--	117.0	--	--	4.3	--	--
PIONEER 3737	18.1	19	18	139.4	150	150	6.2	6	5
TERRA TR975	18.1	--	--	149.1	--	--	5.4	--	--
MAUMEE VALLEY MV-509	18.4	--	--	147.4	--	--	3.2	--	--
PRO-SEED PS2094	18.8	--	--	125.7	--	--	0.9	--	--
MAUMEE VALLEY MV-630	18.9	20	--	141.9	141	--	5.1	4	--
AMERICAN 6082	19.0	--	--	131.2	--	--	4.9	--	--
RENK RK25	19.0	20	--	122.6	147	--	5.3	5	--
PIONEER 3744	19.1	20	20	149.0	161	156	7.9	7	5
TERRA TR32	19.1	--	--	149.2	--	--	7.6	--	--
NORTHROP KING PX9385	19.2	20	--	141.1	156	--	7.3	4	--
ANDERSONS PSX99	19.2	--	--	138.0	--	--	2.8	--	--
GLENN-GARNO 900X	19.2	--	--	130.4	--	--	4.4	--	--
*ASGROW/O'S GOLD RX578	19.3	--	--	164.5	--	--	2.3	--	--
RENK RK27	19.3	--	--	150.8	--	--	2.1	--	--
CROW'S 210	19.3	--	--	120.9	--	--	2.3	--	--
STAUFFER SEEDS S4474	19.4	--	--	157.0	--	--	5.6	--	--
ASGROW/O'S GOLD RX626	19.5	--	--	149.1	--	--	3.6	--	--
MAUMEE VALLEY MV-611	19.5	20	--	131.9	134	--	2.2	2	--
CROW'S 199	19.7	20	--	142.6	149	--	6.2	6	--
*GLENN-GARNO 1003	19.7	--	--	167.0	--	--	3.0	--	--
CARGILL 130411	19.8	--	--	144.3	--	--	3.7	--	--
RENK R148	19.8	21	--	114.4	139	--	3.8	3	--
*BECK'S 49X	19.8	21	21	166.2	183	186	4.5	3	2
NORTHROP KING X4325	19.9	--	--	161.8	--	--	0.7	--	--
TERRA TR3102	19.9	--	--	132.3	--	--	3.8	--	--
CROW'S 212	19.9	20	--	134.9	162	--	1.6	2	--
DEKALB-PFIZER DK524	20.0	--	--	152.2	--	--	4.4	--	--
PRO-SEED PS2100	20.1	--	--	122.7	--	--	2.3	--	--
DAIRYLAND DX1003	20.1	--	--	144.4	--	--	3.0	--	--
GLENN-GARNO 1005	20.1	--	--	118.3	--	--	0.0	--	--
KING K5574	20.2	21	21	133.7	161	162	2.9	4	3
TERRA TR1040	20.2	--	--	150.2	--	--	3.8	--	--
SELECT 3720	20.2	21	21	144.5	163	174	3.2	3	3
GARST 8589	20.3	--	--	153.3	--	--	2.9	--	--
SELECT 4701	20.3	21	21	154.9	166	178	2.3	4	3
CROW'S 344	20.3	21	--	147.4	164	--	3.0	4	--
*GREAT LAKES GL-579	20.4	21	21	172.1	183	187	2.9	3	2
TERRA TR 3200	20.4	--	--	131.3	--	--	3.8	--	--
COUNTRYMARK C565X	20.5	21	--	148.3	178	--	5.1	5	--
MAUMEE VALLEY MV-762	20.5	21	--	158.4	178	--	1.5	4	--
DAIRYLAND DX1108	20.5	21	--	120.3	134	--	4.5	4	--
RENK RK64	20.5	21	21	120.2	155	162	3.1	4	3
*GLENN-GARNO 1007	20.5	21	22	168.2	180	182	3.0	3	2
STAUFFER SEEDS S5650	20.6	--	--	134.4	--	--	2.9	--	--
STAUFFER SEEDS S5340	20.6	22	21	150.4	169	175	2.9	3	2
*SUPER CROST 2989	20.6	22	21	165.5	177	181	4.7	4	3
*GARNO S-100X	20.6	21	21	166.3	180	182	1.4	3	3
*PIONEER 3475	20.6	21	21	165.8	181	183	2.3	3	3
*MAUMEE VALLEY MV-851	20.6	22	--	170.9	178	--	3.6	5	--
CARGILL 893	20.6	--	--	145.6	--	--	2.2	--	--
GRIES GSF580	20.7	--	--	141.6	--	--	0.8	--	--
GRIES GSF622A	20.7	--	--	147.5	--	--	5.1	--	--

(continued below)



LEAST SIGNIFICANT DIFFERENCE 1.5 1.1 0.8 13.4 9 6 -- -- --

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 1	May 2	April 30
HARVESTED	October 15	October 29	October 25
SOIL TYPE	Hillsdale-Riddles sandy loam	Hillsdale-Riddles sandy loam	Hillsdale-Riddles sandy loam
PREVIOUS CROP	corn	corn	corn
POPULATION	21,700	22,000	21,900
ROWS	30"	30"	30"
FERTILIZER	208-33-128	183-46-62	237-52-52
SOIL TEST: pH	6.7	6.3	6.8
P	223 (very high)	196 (very high)	256 (very high)
K	437 (very high)	177 (medium)	409 (very high)
IRRIGATION	5.3 inches	2.75 inches	4.5 inches

FARM COOPERATOR: Richard Godfrey, Jonesville

EXTENSION FIELD CROPS AGENT: Natalie Rector, Marshall

COUNTY EXTENSION DIRECTOR: Jim Pelham, Hillsdale

SELECT 4972	20.7	--	--	156.1	--	--	0.7	--	--
*BECK'S 52X	20.7	--	--	171.1	--	--	5.3	--	--
*JACQUES 7770	20.8	--	--	165.4	--	--	5.6	--	--
*JACQUES 7700	20.8	21	21	173.7	174	176	2.9	4	3
*PIONEER 3540	20.8	21	21	175.5	184	176	1.5	1	2
*AGRIPRO 680	20.8	21	--	178.9	182	--	3.6	4	--
PRIDE 5547	20.8	--	--	150.1	--	--	4.5	--	--
ANDERSONS PSX110	20.8	22	21	149.0	165	164	2.3	3	3
CROW'S 444	20.8	21	--	154.0	176	--	2.2	3	--
CROW'S 442	20.8	21	--	148.7	161	--	3.4	4	--
CUSTOM CFS6203	20.8	22	21	155.0	180	179	3.0	5	4
*DEKALB-PFIZER DK572	20.9	21	--	165.3	179	--	3.6	3	--
PRO-SEED PS2104	20.9	--	--	146.2	--	--	3.0	--	--
DAIRYLAND DK1107	20.9	22	22	152.3	175	185	3.3	4	4
MCCURDY 5750	20.9	--	--	153.2	--	--	5.3	--	--
RUPP XR1639	20.9	21	22	143.3	171	182	5.8	5	3
LYNKS LX4304	20.9	--	--	139.2	--	--	2.9	--	--
*CROW'S 488	20.9	--	--	165.3	--	--	3.8	--	--
*GREAT LAKES GL-590	21.0	--	--	178.4	--	--	2.4	--	--
PRIDE 6656	21.0	22	--	161.5	180	--	4.6	3	--
AMERICAN 6565	21.0	--	--	152.7	--	--	4.3	--	--
ANDERSONS PSX103	21.0	22	--	153.0	167	--	2.1	6	--
SUPER CROST 4304	21.1	22	22	152.0	173	185	3.7	3	4
*GREAT LAKES GL-582	21.1	--	--	169.2	--	--	3.9	--	--
CARGILL 6127	21.1	22	--	145.0	166	--	2.3	3	--
PRO-SEED PS2110	21.1	--	--	131.3	--	--	4.3	--	--
CALLAHAN C754	21.1	22	22	144.8	165	164	4.3	4	3
AGRIPRO HP470	21.2	22	22	156.8	172	176	3.7	4	4
TRELAY 7020	21.2	--	--	148.2	--	--	5.9	--	--
GARST 8555	21.2	--	--	151.9	--	--	3.1	--	--
RENK RK73	21.2	--	--	150.6	--	--	4.0	--	--
*SELECT 5015	21.3	--	--	172.9	--	--	1.5	--	--
SELECT 4850	21.3	--	--	161.7	--	--	6.2	--	--
*CROW'S 482	21.3	--	--	166.7	--	--	3.4	--	--
PAYCO SX847	21.3	22	--	137.8	160	--	5.1	5	--
PAYCO SX786	21.3	--	--	161.1	--	--	2.2	--	--
CUSTOM CFS W6253	21.4	--	--	145.0	--	--	3.5	--	--
CALLAHAN 19101X	21.4	--	--	159.8	--	--	3.1	--	--
DAIRYLAND DX1015	21.5	--	--	158.4	--	--	2.2	--	--
*AGRIPRO 710A	21.6	22	--	169.1	181	--	2.2	3	--
SELECT 4144	21.6	22	--	149.4	161	--	3.8	3	--
*BECK'S 63X	21.6	22	23	169.0	186	184	2.3	3	2
DAIRYLAND DX1013	21.7	23	22	157.4	171	169	2.9	4	3
*GOLDEN HARVEST EX536	21.7	--	--	180.1	--	--	6.5	--	--
*NORTHROP KING PX9527	21.8	23	22	167.8	190	194	2.4	3	3
*PIONEER 3352	21.8	22	--	174.3	194	--	0.0	1	--
TERRA TR1125	21.8	--	--	147.7	--	--	3.0	--	--
SELECT 5188	21.8	--	--	160.4	--	--	1.5	--	--
ANDERSONS PSX107	21.8	22	--	159.3	176	--	3.1	3	--
CARGILL 7567	21.9	--	--	122.8	--	--	3.6	--	--
GOLDEN HARVEST H-2572	21.9	22	23	162.3	190	186	2.9	4	4
CUSTOM CFS 7501	21.9	23	--	128.9	162	--	1.5	2	--
KING K647	22.0	23	--	133.0	159	--	2.2	2	--
*RENK RK76	22.0	23	23	175.1	188	189	3.3	4	3
NORTHROP KING PX9540	22.1	23	23	148.8	180	184	1.5	4	3
*PRIDE 7705	22.3	23	24	171.5	190	190	4.4	3	3
*TERRA TR1060	22.3	--	--	182.6	--	--	2.2	--	--
SELECT 5040	22.3	23	23	160.4	170	178	2.3	3	2
*MAUMEE VALLEY MV-812	22.4	--	--	171.1	--	--	5.6	--	--
TERRA TR3203	22.4	--	--	156.0	--	--	2.3	--	--

(continued next page)

TABLE 03 (CONTINUED)

SOUTHERN MICHIGAN  
Branch County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2 YR	3 YR	1987	2 YR	3 YR	1987	2 YR	3 YR
DAIRYLAND DX1017	22.4	24	24	157.2	174	174	0.8	3	3
RENK RK68	22.4	22	--	163.6	169	--	3.0	4	--
*BECK'S 65X	22.4	23	24	174.5	188	190	1.5	3	2
*MAUMEE VALLEY MV-888	22.5	--	--	166.1	--	--	4.7	--	--
*CARGILL SX310	22.6	23	--	182.9	195	--	0.8	2	--
*BECK'S 64XA	22.6	23	--	167.7	193	--	2.3	2	--
*CARGILL 7877	22.7	--	--	182.9	--	--	2.3	--	--
TERRA TR262E	22.8	--	--	161.0	--	--	3.1	--	--
AGRIPRO AP510	22.9	23	23	151.5	182	181	1.6	2	2
CARGILL 937	22.9	--	--	150.1	--	--	1.4	--	--
GLENN-GARNO 1012	22.9	--	--	159.5	--	--	0.0	--	--
MAUMEE VALLEY MV-910	23.1	--	--	162.9	--	--	0.7	--	--
AMERICAN 808X	23.5	--	--	152.3	--	--	0.8	--	--
AVERAGE	20.8	22	22	150.0	171	178	3.3	3	3
RANGE	17.4	19	18	114.4	134	150	0.0	1	2
	T0	T0	T0	T0	T0	T0	T0	T0	T0
	23.5	24	24	182.9	195	194	7.9	7	5
LEAST SIGNIFICANT DIFFERENCE	1.5	1.1	1.0	13.7	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 6	May 8	April 29
HARVESTED	October 16	October 29	October 24-25
SOIL TYPE	Gilford Sandy Loam	Gilford Sandy Loam	Gilford Sandy Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,800	22,000	22,100
ROWS	30"	30"	30"
FERTILIZER	216-92-180	36-92-120	209-74-0
SOIL TEST: pH	6.5	5.6	6.5
P	264 (very high)	350 (very high)	240 (very high)
K	181 (medium)	211 (medium)	200 (medium)

FARM COOPERATOR: David LaBar, Union City

EXTENSION FIELD CROPS AGENT: Natalie Rector, Marshall

COUNTY EXTENSION DIRECTOR: Ray Fast, Coldwater

*PIONEER 3475	20.5	21	23	96.8	133	135	3.0	2	1
KING K4484	20.5	21	23	63.5	101	107	5.9	3	2
DAIRYLAND DX1107	20.5	22	24	72.8	108	116	2.3	3	3
JACQUES 7700	20.6	22	24	66.9	101	100	1.6	2	2
*GREAT LAKES GL-584	20.6	--	--	89.8	--	--	5.6	--	--
ASGROW/O'S GOLD RX578	20.6	--	--	53.8	--	--	4.5	--	--
CARGILL 6127	20.7	22	--	71.2	103	--	4.3	4	--
TERRA TR3200	20.7	--	--	68.3	--	--	3.8	--	--
SELECT 4850	20.7	--	--	78.1	--	--	0.0	--	--
CARGILL SX239	20.8	--	--	60.8	--	--	6.8	--	--
MAUMEE VALLEY MV-762	20.8	21	--	67.6	117	--	2.3	2	--
*TERRA TR1040	20.8	--	--	94.6	--	--	2.2	--	--
*DEKALB-PFIZER DK572	20.9	22	--	99.2	133	--	2.1	1	--
AGRIPRO 680	20.9	22	--	59.6	101	--	6.1	4	--
KING K596	20.9	23	--	78.4	109	--	3.1	3	--
SELECT 3720	20.9	22	23	74.4	115	113	3.1	3	2
ANDERSONS PSX103	20.9	21	--	53.7	99	--	1.6	3	--
LEADER SX535	21.0	--	--	80.2	--	--	0.8	--	--
LEADER LSX530	21.0	--	--	81.9	--	--	2.2	--	--
COUNTRYMARK C565X	21.0	22	--	56.6	93	--	1.5	4	--
SELECT 4144	21.1	23	25	69.5	110	114	3.1	3	2
MCCURDY 5990	21.1	--	--	46.1	--	--	3.9	--	--
ANDERSONS PSX107	21.1	23	--	71.4	116	--	5.0	3	--
*NORTHROP KING X4325	21.2	--	--	97.1	--	--	1.5	--	--
PIONEER 3540	21.2	22	23	86.3	126	125	2.2	2	2
MAUMEE VALLEY MV-851	21.2	23	--	62.5	103	--	0.8	1	--
CARGILL 893	21.2	22	--	68.1	107	--	4.5	4	--
RENK RK68	21.2	--	--	61.3	--	--	3.8	--	--
*TERRA TR1125	21.3	--	--	91.4	--	--	3.9	--	--
RENK RK73	21.4	--	--	67.1	--	--	2.3	--	--
*PAYCO SX786	21.4	--	--	92.5	--	--	7.5	--	--
*SUPER CROST 2989	21.5	22	24	90.6	128	118	3.0	3	2
DAIRYLAND DX1013	21.5	23	25	85.9	132	132	5.4	4	3
STAUFFER SEEDS S5340	21.6	22	24	77.8	109	106	2.9	2	2
SELECT 5040	21.6	23	25	69.1	111	115	1.5	2	2
*PIONEER 3352	21.7	22	--	91.6	130	--	0.8	1	--
TERRA TR1060	21.7	--	--	71.7	--	--	2.3	--	--
CROW'S 482	21.7	--	--	80.9	--	--	2.6	--	--
JACQUES 7770	21.8	--	--	71.3	--	--	4.1	--	--
MAUMEE VALLEY MV-888	21.8	--	--	61.7	--	--	2.3	--	--
*GLENN-GARNO 1012	21.8	--	--	95.4	--	--	2.9	--	--
GRIES GSF662A	21.9	--	--	52.7	--	--	2.2	--	--
GREAT LAKES 87656	21.9	--	--	82.9	--	--	4.8	--	--
DAIRYLAND DX1015	21.9	--	--	72.9	--	--	2.4	--	--
RENK RK76	21.9	--	--	68.9	--	--	2.2	--	--
*MCCURDY 5750	21.9	--	--	95.5	--	--	2.2	--	--
*BECK'S 64XA	21.9	23	--	87.7	141	--	2.3	1	--
AGRIPRO HP470	22.0	23	--	55.9	125	--	5.3	3	--
*MAUMEE VALLEY MV-812	22.0	--	--	94.3	--	--	2.3	--	--
AGRIPRO 710A	22.1	23	--	71.1	129	--	3.8	2	--
MAUMEE VALLEY MV-910	22.2	--	--	54.9	--	--	4.7	--	--
*TERRA TR262E	22.2	--	--	93.3	--	--	3.8	--	--
CROW'S 488	22.2	23	--	58.2	111	--	3.7	4	--
KING K647	22.6	--	--	85.6	--	--	0.8	--	--
TERRA TR3203	22.6	--	--	86.4	--	--	1.5	--	--
DAIRYLAND DX1017	22.6	24	26	82.7	124	123	1.5	2	2
*GOLDEN HARVEST H-2572	22.6	23	26	98.2	131	132	3.1	2	2
GREAT LAKES GL-599	23.1	--	--	85.6	--	--	1.5	--	--

(continued below)

TABLE 04

SOUTHERN MICHIGAN  
Kalamazoo County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	2	3		2	3		2	3	
	1987	YR	YR	1987	YR	YR	1987	YR	YR
COUNTRYMARK C343X	17.8	--	--	80.2	--	--	4.7	--	--
*PIONEER 3737	18.0	20	22	96.2	117	118	1.5	2	2
*CARGILL 130411	18.4	--	--	90.3	--	--	3.9	--	--
PIONEER 3744	18.5	20	22	85.2	118	121	5.6	3	2
BECK'S 39X	18.8	--	--	77.1	--	--	4.4	--	--
WOLVERINE W156	18.9	--	--	79.4	--	--	5.9	--	--
RUPP XR1527	18.9	--	--	83.4	--	--	2.2	--	--
RUPP XR1555	18.9	20	--	81.2	102	--	2.9	3	--
GOLDEN HARVEST H-2343	18.9	--	--	84.3	--	--	5.3	--	--
STAUFFER SEEDS S4474	19.0	--	--	80.5	--	--	8.1	--	--
DEKALB-PFIZER DK524	19.0	--	--	84.4	--	--	2.3	--	--
CARGILL 3987	19.0	--	--	51.3	--	--	7.7	--	--
*CROW'S 210	19.0	--	--	99.4	--	--	0.7	--	--
*GLENN-GARNO 900X	19.0	--	--	97.0	--	--	4.5	--	--
PAYCO SX686	19.1	--	--	76.8	--	--	4.4	--	--
TERRA TR29	19.2	--	--	75.6	--	--	2.9	--	--
TERRA TR975	19.2	--	--	75.4	--	--	5.0	--	--
TERRA TR3102	19.2	--	--	68.9	--	--	6.0	--	--
CARGILL 859	19.2	--	--	83.3	--	--	5.6	--	--
MAUMEE VALLEY MV-611	19.3	20	--	67.2	104	--	6.9	5	--
*RENK RK27	19.3	--	--	98.3	--	--	4.4	--	--
*MAUMEE VALLEY MV-630	19.4	20	--	95.1	123	--	3.6	3	--
LEADER SX488	19.5	--	--	64.0	--	--	3.1	--	--
NORTHROP KING PX9385	19.5	21	--	75.1	122	--	5.3	3	--
TERRA TR32	19.5	--	--	83.6	--	--	5.3	--	--
ANDERSONS PSX99	19.5	21	--	59.3	110	--	4.6	3	--
ASGROW/O'S GOLD RX626	19.6	--	--	73.3	--	--	3.8	--	--
MAUMEE VALLEY MV-509	19.6	--	--	55.1	--	--	4.5	--	--
GRIES GSF 580	19.7	--	--	61.3	--	--	3.7	--	--
SELECT 2772	19.7	--	--	77.1	--	--	2.2	--	--
*CARGILL 5157	19.8	--	--	93.0	--	--	5.3	--	--
GLENN-GARNO 1003	19.8	--	--	83.8	--	--	3.8	--	--
*GLENN-GARNO 1005	19.8	--	--	87.2	--	--	1.5	--	--
*DAIRYLAND DX1103	19.9	--	--	94.6	--	--	4.4	--	--
GARST 8555	20.1	--	--	78.1	--	--	4.5	--	--
WOLVERINE W163	20.2	--	--	79.7	--	--	4.4	--	--
WOLVERINE W174A	20.2	21	23	57.6	96	95	4.8	3	3
NORTHROP KING PX39	20.2	21	23	48.7	107	114	3.9	2	3
RENK RK25	20.2	--	--	66.2	--	--	3.4	--	--
BECK'S 52X	20.2	--	--	46.2	--	--	4.8	--	--
KING K5574	20.3	22	23	79.3	115	117	3.0	3	2
GARST 8589	20.3	--	--	75.4	--	--	3.7	--	--
DAIRYLAND DX1108	20.3	21	--	66.9	104	--	4.8	4	--
RENK R148	20.3	--	--	46.1	--	--	6.1	--	--
*STAUFFER SEEDS S5650	20.4	--	--	99.2	--	--	3.0	--	--
*GREAT LAKES GL-582	20.4	--	--	96.8	--	--	2.2	--	--
RENK RK64	20.4	--	--	75.3	--	--	3.8	--	--
*PAYCO SX872	20.4	21	--	93.7	125	--	3.7	4	--
GOLDEN HARVEST H-2465	20.4	--	--	71.5	--	--	2.1	--	--
*GLENN-GARNO 1007	20.4	22	23	98.5	132	130	5.2	4	3

(continued top right)

AVERAGE	20.6	22	24	75.9	115	117	3.6	3	2
RANGE	17.8	20	22	46.1	93	95	0.0	1	1
	23.1	24	26	99.4	141	135	8.1	5	3
LEAST SIGNIFICANT DIFFERENCE	1.4	1.0	0.7	10.6	9	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 6	May 3	April 30
HARVESTED	October 16	October 30	October 24
SOIL TYPE	Kalamazoo loam	Kalamazoo loam	Kalamazoo loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,500	22,000	21,800
ROWS	30"	30"	30"
FERTILIZER	116-64-32	112-48-24	125-48-24
SOIL TEST: pH	6.2	5.7	5.9
P	158 (very high)	181 (very high)	162 (very high)
K	203 (medium)	286 (high)	364 (very high)

FARM COOPERATOR: Richard VanVrancken, Climax

COUNTY AGRICULTURAL AGENT: Maurice Kaercher, Kalamazoo

TABLE 05

SOUTHERN MICHIGAN  
Cass County Trial - Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
COUNTRYMARK C343X	20.7	--	--	134.4	--	--	5.4	--	--
PIONEER 3737	21.1	21	21	152.2	153	163	3.7	3	2
MAUMEE VALLEY MV-509	21.2	--	--	146.0	--	--	3.7	--	--
PAYCO SX686	21.6	--	--	147.7	--	--	2.9	--	--
GLENN-GARNO 1003	21.9	--	--	162.6	--	--	2.2	--	--
PIONEER 3744	22.1	22	21	161.3	159	166	3.1	3	2
GLENN-GARNO 1005	22.3	--	--	147.7	--	--	1.5	--	--
MAUMEE VALLEY MV-611	22.4	22	--	143.5	149	--	4.7	3	--
PAYCO SX786	22.4	--	--	161.2	--	--	2.9	--	--
GLENN-GARNO 900X	22.4	--	--	145.0	--	--	1.6	--	--
DAIRYLAND DX1103	22.6	--	--	149.5	--	--	6.2	--	--
VORIS V2465	22.7	--	--	139.0	--	--	5.1	--	--
MAUMEE VALLEY MV-630	22.8	22	--	164.7	145	--	2.3	2	--
KING K4464	22.9	23	--	148.8	146	--	0.0	1	--
STAUFFER SEEDS S5722WX	23.2	--	--	144.7	--	--	5.1	--	--
STAUFFER SEEDS S4590	23.2	--	--	142.5	--	--	5.0	--	--
GARST 8589	23.2	--	--	163.0	--	--	2.9	--	--
DEKALB-PFIZER DK524	23.3	23	22	160.9	175	185	0.8	1	1
BETAGOLD EXP392	23.6	--	--	151.8	--	--	1.5	--	--
CROW'S 442	23.6	--	--	160.6	--	--	2.3	--	--
STAUFFER SEEDS S4474	23.7	--	--	134.9	--	--	1.4	--	--
*PIONEER 3475	23.7	24	24	184.9	193	194	0.0	0	0
STAUFFER SEEDS S5750	23.9	24	23	163.4	154	165	3.2	2	2
BETAGOLD HEIDI	23.9	--	--	161.3	--	--	2.2	--	--
*SELECT 3720	24.0	24	23	185.5	181	184	1.4	2	2
ANDERSONS QSX 105	24.0	--	--	156.9	--	--	2.1	--	--
GOLDEN HARVEST H-2465	24.0	24	--	157.4	173	--	2.2	3	--
CALLAHAN C754	24.0	24	23	170.5	174	185	0.9	2	2
AGRIPRO 644	24.1	--	--	170.3	--	--	1.5	--	--
KING K5574	24.1	24	23	163.4	175	171	2.2	1	1
BECK'S 52X	24.1	--	--	165.9	--	--	4.2	--	--
JACQUES 7700	24.2	24	24	167.4	175	190	0.8	5	4
ASGROW/O'S GOLD RX578	24.3	--	--	161.9	--	--	2.2	--	--
COUNTRYMARK C565X	24.3	24	--	141.3	158	--	0.7	1	--
GARST 8555	24.3	--	--	174.6	--	--	4.5	--	--
CROW'S 444	24.4	--	--	163.1	--	--	0.8	--	--
MAUMEE VALLEY MV-762	24.5	24	--	169.7	164	--	2.9	1	--
RUPP XR1639	24.5	24	23	146.8	159	167	1.5	2	2
STAUFFER SEEDS S5340	24.6	24	23	163.7	163	179	0.7	0	0
MAUMEE VALLEY MV-851	24.7	24	--	164.2	167	--	3.0	2	--
DAIRYLAND DX1108	24.7	24	--	149.1	149	--	3.0	3	--
DEKALB-PFIZER DK547	24.8	--	--	172.2	--	--	1.4	--	--
DEKALB-PFIZER DK572	24.8	--	--	175.3	--	--	3.8	--	--
GREAT LAKES GL-584	24.8	--	--	181.7	--	--	3.1	--	--
CALLAHAN 19908X	24.9	--	--	148.6	--	--	3.6	--	--
AGRIPRO 680	25.0	--	--	142.6	--	--	0.0	--	--
GLENN-GARNO 1007	25.0	25	24	173.7	176	183	0.0	0	1
CARGILL 893	25.1	--	--	177.7	--	--	2.2	--	--
*LYNKS LX4235	25.2	--	--	182.9	--	--	0.7	--	--
*PIONEER 3540	25.4	24	24	184.5	186	189	1.4	1	1
*SUPER CROST 2989	25.5	25	--	184.2	186	--	1.5	2	--
LEADER SX575	25.5	--	--	144.4	--	--	3.7	--	--
BECK'S 51X	25.5	26	25	178.1	176	187	0.7	1	2

(continued below)

TABLE 05 (CONTINUED)

SOUTHERN MICHIGAN  
Cass County Trial - Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	YR
AVERAGE	25.3	25	24	166.5	174	182	1.9	2	2
RANGE	20.7	21	21	134.4	145	163	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.8	27	26	212.6	208	204	6.2	5	4
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	0.9	15.6	10	8	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 6	May 2	April 29
HARVESTED	September 23	October 8	October 23
SOIL TYPE	Oshtemo Sandy Loam	Oshtemo Sandy Loam	Oshtemo Sandy Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,600	22,200	22,900
ROWS	30"	30"	30"
FERTILIZER	212-40-70	248-44-131	343-44-131
SOIL TEST: pH	6.7	6.8	6.8
P	217 (very high)	264 (very high)	230 (very high)
K	265 (high)	392 (very high)	440 (very high)
IRRIGATION	6 inches	5 inches	8 inches

FARM COOPERATOR: Dave Cripe, Cassopolis

COUNTY AGRICULTURAL AGENT: Wayne Nothem, Cassopolis

STAUFFER SEEDS S6707WX	25.6	--	--	150.3	--	--	0.0	--	--
PRIDE 5547	25.7	--	--	160.7	--	--	0.7	--	--
CARGILL 6127	25.7	--	--	156.3	--	--	0.7	--	--
GOLDEN HARVEST H-2492	25.7	--	--	154.5	--	--	2.2	--	--
CALLAHAN 19101X	25.7	--	--	145.3	--	--	2.2	--	--
ANDERSONS PSX103	25.8	25	--	158.2	166	--	2.9	3	--
ASGROW/O'S GOLD RX626	25.9	--	--	158.2	--	--	3.7	--	--
CROW'S 488	25.9	26	--	172.5	179	--	0.7	1	--
MAUMEE VALLEY MV-812	26.1	--	--	181.5	--	--	0.0	--	--
*BECK'S 63X	26.1	26	25	184.8	193	201	0.0	1	1
JACQUES 7770	26.2	--	--	146.9	--	--	2.2	--	--
SELECT 4144	26.2	25	25	180.1	181	183	2.1	1	2
PAYCO SX800	26.2	--	--	169.0	--	--	1.4	--	--
*GREAT LAKES GL-582	26.3	--	--	212.6	--	--	0.7	--	--
*NORTHROP KING PX9540	26.3	26	--	191.4	205	--	2.2	2	--
DAIRYLAND DX1013	26.3	26	26	166.8	169	176	1.5	2	2
VORIS V2515	26.3	26	--	154.3	162	--	2.2	1	--
*PIONEER 3352	26.4	26	--	202.1	196	--	0.0	0	--
*AGRIPRO AP510	26.4	26	26	189.4	203	200	0.8	1	1
*SELECT 5040	26.4	26	--	185.9	190	--	0.8	1	--
SELECT 4701	26.4	26	25	153.6	162	166	3.6	2	2
CARGILL 130410	26.4	--	--	155.2	--	--	0.7	--	--
PARKER 63	26.4	--	--	181.9	--	--	1.4	--	--
CROW'S 482	26.6	--	--	174.9	--	--	4.3	--	--
KING K647	26.7	27	--	168.3	181	--	0.8	0	--
*CARGILL 7877	26.8	--	--	206.6	--	--	0.7	--	--
*PRAIRIE STREAM M4400	26.8	--	--	182.7	--	--	0.7	--	--
*BECK'S 65X	26.9	27	26	185.3	203	204	1.5	1	2
MAUMEE VALLEY MV-888	27.0	--	--	175.5	--	--	0.0	--	--
*DAIRYLAND DX1107	27.1	25	24	182.9	185	191	1.4	1	1
LEADER SX535	27.2	--	--	177.9	--	--	1.4	--	--
*GREAT LAKES 87656	27.2	--	--	192.3	--	--	4.4	--	--
*GREAT LAKES GL-599	27.2	--	--	186.5	--	--	0.7	--	--
CARGILL 7567	27.2	--	--	158.6	--	--	1.4	--	--
PARKER 400	27.2	--	--	177.6	--	--	1.5	--	--
SUPER CROST 5415	27.3	--	--	173.2	--	--	1.5	--	--
*ASGROW/O'S GOLD RX788	27.3	--	--	188.6	--	--	0.7	--	--
*GOLDEN HARVEST H-2572	27.3	--	--	200.9	--	--	2.1	--	--
*SELECT 5188	27.4	27	26	195.5	188	183	1.4	1	1
*CARGILL 937	27.4	--	--	207.3	--	--	2.2	--	--
ANDERSONS PSX107	27.4	27	--	170.7	169	--	0.0	0	--
*AGRIPRO 710A	27.5	--	--	201.7	--	--	0.0	--	--
PRAIRIE STREAM SX502	27.8	--	--	167.6	--	--	1.4	--	--
SELECT 4972	27.9	--	--	181.0	--	--	2.1	--	--
DAIRYLAND DX1015	28.0	--	--	172.3	--	--	0.7	--	--
*PRIDE 7705	28.1	27	--	195.8	208	--	2.1	2	--
*SELECT 5015	28.2	--	--	189.1	--	--	0.0	--	--
*DAIRYLAND DX1017	28.2	--	--	190.1	--	--	1.4	--	--
*ASGROW/O'S GOLD 2545	28.3	--	--	187.9	--	--	0.0	--	--
GLENN-GARNO 1012	28.4	--	--	178.3	--	--	2.2	--	--
*BECK'S 64XA	28.7	--	--	204.5	--	--	0.7	--	--
MAUMEE VALLEY MV-910	28.8	--	--	181.5	--	--	0.7	--	--
SELECT 4905	28.8	27	26	179.3	178	175	3.5	2	2

(continued top right)

TABLE 06

SOUTHERN MICHIGAN  
Cass County Trial - Muck Soil  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE		BUSHEL PER ACRE			% STALK LODGING				
	1987	YR	2	3	1987	2	3	1987	2	3
			YR	YR		YR	YR		YR	YR
DAIRYLAND DX1095	18.4	--	--	124.5	--	--	2.9	--	--	
ANDERSONS PSX93	18.7	--	--	144.8	--	--	0.7	--	--	
GREAT LAKES GL-487	18.9	20	20	148.5	136	135	0.0	2	1	
PIONEER 3737	19.0	20	20	145.9	133	135	2.1	2	2	
VORIS V2331	19.0	--	--	134.0	--	--	1.4	--	--	
GLENN-GARNO 900	19.0	--	--	122.4	--	--	1.6	--	--	
PAYCO SX686	19.3	--	--	127.2	--	--	1.4	--	--	
GLENN-GARNO 888S	19.4	20	--	141.2	123	--	2.9	3	--	
*CARGILL 859	19.6	20	20	162.6	143	138	0.0	3	3	
*DEKALB-PFIZER DK484	19.7	21	21	159.5	141	133	1.4	1	2	
CARGILL 3477	19.8	--	--	121.7	--	--	1.4	--	--	
MAUMEE VALLEY MV-509	20.0	--	--	123.5	--	--	0.7	--	--	
AGRIPRO 474A	20.2	--	--	120.2	--	--	3.8	--	--	
ASGROW/O'S GOLD RX498	20.6	--	--	125.4	--	--	0.0	--	--	
MAUMEE VALLEY MV-611	20.6	22	--	137.7	124	--	0.0	0	--	
LYNKS LX4084	20.7	--	--	148.3	--	--	0.7	--	--	
GOLDEN HARVEST H-2344	20.7	22	22	143.7	139	132	0.7	2	2	
NORTHROP KING PX9385	21.0	--	--	133.1	--	--	2.3	--	--	
VORIS V2365	21.0	--	--	119.9	--	--	1.5	--	--	
PIONEER 3744	21.1	22	22	149.1	132	126	2.3	2	1	
*MAUMEE VALLEY MV-630	21.1	21	--	159.7	135	--	0.7	1	--	
CARGILL 3987	21.1	--	--	151.2	--	--	0.0	--	--	
BECK'S 39X	21.1	--	--	144.8	--	--	3.0	--	--	
GOLDEN HARVEST H-2343	21.3	--	--	141.6	--	--	2.1	--	--	
GLENN-GARNO 1005	21.3	--	--	144.8	--	--	0.8	--	--	
CALLAHAN C754	21.3	--	--	147.9	--	--	0.7	--	--	
*GREAT LAKES GL509	21.4	--	--	164.5	--	--	2.3	--	--	
GLENN-GARNO 900X	21.4	--	--	131.4	--	--	2.2	--	--	
*ASGROW/O'S GOLD RX578	21.7	--	--	157.2	--	--	1.4	--	--	
*PIONEER 3475	21.8	22	23	170.2	151	147	0.7	2	1	
AGRIPRO 644	21.8	23	--	151.6	126	--	3.5	5	--	
CALLAHAN C747	21.8	--	--	145.2	--	--	2.9	--	--	
GLENN-GARNO 1003	21.9	--	--	146.7	--	--	1.4	--	--	
ASGROW/O'S GOLD RX626	22.0	--	--	124.0	--	--	0.0	--	--	
CARGILL 130411	22.0	--	--	126.1	--	--	3.0	--	--	
DAIRYLAND DX1103	22.0	22	--	143.4	134	--	1.4	1	--	
*PAYCO SX872	22.1	23	--	166.9	144	--	1.4	2	--	
KING K4464	22.2	23	--	132.8	123	--	0.0	2	--	
RUPP XR1639	22.3	--	--	128.6	--	--	2.3	--	--	
*GLENN-GARNO 1007	22.4	--	--	159.9	--	--	1.5	--	--	
*PIONEER 3540	22.7	23	23	175.2	153	149	0.0	1	0	
DAIRYLAND DX1107	22.7	23	24	128.6	125	121	2.3	2	2	
*GOLDEN HARVEST H-2465	22.8	23	--	176.4	152	--	1.5	2	--	
KING K5574	22.9	23	--	141.1	131	--	0.7	0	--	
*MAUMEE VALLEY MV-762	22.9	24	--	163.4	140	--	0.0	0	--	
*DEKALB-PFIZER DK524	23.2	23	23	165.3	140	139	0.7	2	2	
DAIRYLAND DX1108	23.2	--	--	132.1	--	--	0.7	--	--	
*MAUMEE VALLEY MV-851	23.7	25	--	159.3	137	--	0.8	0	--	
PIONEER 3352	24.6	25	--	141.5	126	--	0.0	0	--	
*MAUMEE VALLEY MV-812	24.8	--	--	162.8	--	--	0.0	--	--	

(continued next page)

TABLE 06 (CONTINUED)

SOUTHERN MICHIGAN  
Cass County Trial - Muck Soil  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1987	2 YR	3 YR	1987	2 YR	3 YR	1987	2 YR	3 YR
CARGILL 130410	24.8	--	--	141.9	--	--	1.5	--	--
BECK'S 52X	24.9	--	--	134.3	--	--	1.4	--	--
ANDERSONS PSX107	25.9	25	--	142.0	124	--	2.2	1	--
KING K647	26.2	26	--	123.1	120	--	1.5	3	--
AVERAGE	21.6	22	22	143.4	135	136	1.3	2	2
RANGE	18.4	20	20	119.9	120	121	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	26.2	26	24	176.4	153	149	3.8	5	3
LEAST SIGNIFICANT DIFFERENCE	1.4	1.0	0.8	13.7	10	8	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 27	May 29	May 11
HARVESTED	October 17	October 30	October 23
SOIL TYPE	Palms Muck	Palms Muck	Palms Muck
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,200	22,000	21,900
ROWS	30"	30"	38"
FERTILIZER	20-68-72	100-76-90	113-53-53+Mangamese
SOIL TEST: pH	5.8	5.7	6.2
P	104 (high)	98 (high)	125 (very high)
K	345 (very high)	635 (very high)	508 (very high)

FARM COOPERATOR: Warren Wooden, Cassopolis

COUNTY AGRICULTURAL AGENT: Wayne Hothem, Cassopolis

TABLE 07 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Kent County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1987	2 YR	3 YR	1987	2 YR	3 YR	1987	2 YR	3 YR
ASGROW/O'S GOLD RX626	20.4	--	--	125.4	--	--	0.0	--	--
RUPP XR1527	20.5	--	--	82.1	--	--	0.0	--	--
ANDERSONS QSX95	20.6	--	--	111.5	--	--	3.8	--	--
NORTHROP KING PX9283	20.7	22	--	105.2	111	--	1.1	1	--
KING K4464	20.7	23	23	97.7	113	109	0.0	1	1
CARGILL 130411	20.7	--	--	89.3	--	--	3.7	--	--
RUPP XR1690	20.7	22	23	115.1	122	121	4.5	3	3
GOLDEN HARVEST H-2343	20.7	--	--	99.1	--	--	3.9	--	--
*GLENN-GARNO 1007	20.7	23	23	142.4	134	128	0.0	1	1
*GREAT LAKES GL-579	20.8	23	23	148.1	143	135	0.9	1	1
*AGRIPRO 680	20.8	--	--	144.4	--	--	3.7	--	--
*SUPER CROST 2989	20.9	23	--	142.2	136	--	2.5	2	--
PIONEER 3540	20.9	23	23	109.6	116	117	0.8	1	1
GLENN-GARNO 1005	20.9	--	--	119.3	--	--	1.3	--	--
CUSTOM CFS W4052	20.9	--	--	89.6	--	--	0.0	--	--
*ANDERSONS PSX103	21.0	23	--	143.8	134	--	0.9	0	--
JACQUES 7700	21.1	23	23	110.2	123	121	0.8	0	0
DAIRYLAND DX1107	21.1	24	23	119.7	114	115	1.6	1	1
AGRIPRO 644	21.2	--	--	90.3	--	--	2.0	--	--
KING K5574	21.3	23	24	118.6	123	121	0.9	1	1
GRIES GSFX622A	21.4	--	--	96.3	--	--	1.7	--	--
GREAT LAKES GL-582	21.4	--	--	129.4	--	--	0.0	--	--
COUNTRYMARK C565X	21.4	24	--	108.5	111	--	1.8	2	--
*CUSTOM CFS W5753	21.4	--	--	141.2	--	--	3.1	--	--
CUSTOM CFS 6203	21.4	23	--	101.3	115	--	2.8	2	--
PICKSEED 8898	21.5	24	24	124.2	126	123	0.0	0	0
*AMERICAN 6565	21.7	--	--	134.6	--	--	1.8	--	--
PAYCO SX872	21.8	24	24	107.4	109	111	1.0	1	1
*CARGILL 130410	22.9	--	--	143.3	--	--	2.4	--	--
KAINS K92	23.2	--	--	105.6	--	--	3.5	--	--
AVERAGE	19.9	22	22	117.1	120	119	1.6	2	1
RANGE	17.1	20	21	80.9	101	107	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	23.2	24	24	148.1	143	135	5.7	5	4
LEAST SIGNIFICANT DIFFERENCE	1.4	1.0	0.8	13.2	10	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 4	May 7	May 9
HARVESTED	October 19	October 31	October 31
SOIL TYPE	Belville Loam	Belville Loam	Belville Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	19,500	19,600	21,500
ROWS	30"	30"	30"
FERTILIZER	195-41-60	116-87-0 & manure	189-48-60
SOIL TEST: pH	6.7	6.6	6.6
P	85 (high)	105 (very high)	76 (high)
K	236 (high)	261 (high)	378 (very high)

FARM COOPERATOR: Gerald Kayser, Caledonia

COUNTY AGRICULTURAL AGENT: Lyman Baker, Grand Rapids

TABLE 07

SOUTH CENTRAL MICHIGAN  
Kent County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
GOLDEN HARVEST H-2250	17.1	--	--	120.5	--	--	1.6	--	--
GARST 8808	17.6	--	--	128.8	--	--	1.8	--	--
DAIRYLAND DX1095	17.7	--	--	114.6	--	--	1.7	--	--
AGRIPRO 270	17.8	--	--	81.8	--	--	3.8	--	--
PIONEER 3779	17.9	21	--	106.2	101	--	2.0	1	--
*GARST 8702	18.0	--	--	134.0	--	--	2.4	--	--
GREAT LAKES GL-420	18.1	--	--	128.9	--	--	4.7	--	--
PRIDE EXP. 99	18.1	--	--	118.8	--	--	1.7	--	--
*CARGILL 3987	18.1	--	--	145.8	--	--	1.8	--	--
*PIONEER 3704	18.3	21	--	140.7	128	--	0.8	0	--
DAIRYLAND DX1096	18.4	--	--	104.9	--	--	2.6	--	--
COUNTRYMARK C343X	18.6	--	--	92.9	--	--	0.0	--	--
DEKALB-PFIZER DK484	18.7	21	21	115.7	113	112	4.7	3	2
AGRIPRO 474A	18.7	--	--	93.7	--	--	2.3	--	--
ASGROW/O'S GOLD RX498	18.7	--	--	102.7	--	--	1.1	--	--
KAINS K85	18.7	--	--	90.1	--	--	5.7	--	--
KING K416	18.8	21	21	80.9	101	107	2.8	2	2
PAYCO SX686	18.8	--	--	97.4	--	--	2.5	--	--
PRIDE X945	18.9	20	--	108.9	106	--	1.4	2	--
KING K4422	18.9	21	22	124.8	125	115	0.0	1	1
*PIONEER 3744	19.0	21	22	132.2	125	114	3.7	3	2
DAIRYLAND DX1089	19.0	--	--	109.6	--	--	0.9	--	--
GLENN-GARNO 944	19.0	21	--	113.2	107	--	3.5	3	--
AMERICAN 5050	19.1	--	--	96.5	--	--	1.1	--	--
*NORTHROP KING PX9292	19.2	--	--	137.1	--	--	0.9	--	--
*GLENN-GARNO 1003	19.2	--	--	145.1	--	--	3.1	--	--
SUPER CROST EXP. 87105	19.3	--	--	119.0	--	--	1.6	--	--
JACQUES 4900	19.3	--	--	103.4	--	--	4.0	--	--
*CARGILL SX239	19.3	--	--	143.7	--	--	2.3	--	--
WOLVERINE W156	19.4	21	--	93.4	109	--	0.9	2	--
PIONEER 3737	19.4	21	21	128.6	126	124	5.5	5	4
*WOLVERINE W163	19.5	22	--	138.9	118	--	3.4	2	--
GLENN-GARNO 900X	19.5	--	--	113.3	--	--	0.0	--	--
CARGILL 3477	19.6	--	--	123.0	--	--	0.0	--	--
GOLDEN HARVEST H-2344	19.6	--	--	99.5	--	--	0.8	--	--
*ASGROW/O'S GOLD RX578	19.7	--	--	145.9	--	--	0.9	--	--
WOLVERINE W174A	19.8	--	--	90.7	--	--	2.3	--	--
CARGILL 3537	19.8	--	--	88.1	--	--	3.1	--	--
*DEKALB-PFIZER DK572	19.9	--	--	144.7	--	--	1.5	--	--
*KAINS K96	19.9	--	--	130.7	--	--	1.5	--	--
*DAIRYLAND DX1108	19.9	22	--	133.4	123	--	1.5	1	--
NORTHROP KING PX39	20.0	--	--	101.1	--	--	1.6	--	--
*GREAT LAKES GL-509	20.1	--	--	145.6	--	--	4.1	--	--
*DAIRYLAND DX1105	20.1	23	22	147.5	132	128	0.8	0	0
*GREAT LAKES GL-482	20.2	--	--	136.7	--	--	4.5	--	--
*CARGILL 859	20.2	21	21	144.8	136	130	2.6	3	3
DAIRYLAND DX1103	20.2	--	--	93.9	--	--	1.6	--	--
DEKALB-PFIZER DK524	20.3	22	22	122.2	117	117	3.2	2	2
GREAT LAKES 87676	20.3	--	--	127.0	--	--	2.7	--	--
GRIES GSF580	20.4	--	--	96.7	--	--	2.4	--	--

(continued top right)

TABLE 08

SOUTH CENTRAL MICHIGAN  
Ottawa County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
GARST 8808	17.4	--	--	82.0	--	--	7.7	--	--
PIONEER 3737	18.4	21	21	99.8	116	115	14.4	9	7
MAUMEE VALLEY MV-630	18.6	21	--	76.2	100	--	7.4	5	--
AGRIPRO 270	18.9	--	--	69.5	--	--	4.5	--	--
COUNTRYMARK C343X	19.0	--	--	95.7	--	--	4.4	--	--
DAIRYLAND DX1095	19.0	--	--	88.9	--	--	7.5	--	--
NORTHROP KING PX9292	19.3	--	--	85.6	--	--	3.1	--	--
PIONEER 3779	19.4	21	--	94.1	110	--	8.1	6	--
KING K416	19.5	21	22	102.9	118	114	5.4	4	3
ASGROW/O'S GOLD 2330	19.5	--	--	111.5	--	--	6.9	--	--
STAUFFER SEEDS S3306	19.7	21	21	88.7	109	107	6.4	6	5
*PIONEER 3704	19.7	21	--	117.8	114	--	6.2	5	--
BETAGOLD HEIDI	19.8	--	--	93.0	--	--	4.6	--	--
*PIONEER 3744	19.9	21	22	131.4	138	130	6.9	6	4
MAUMEE VALLEY MV-509	19.9	--	--	93.4	--	--	3.8	--	--
GOLDEN HARVEST H-2344	19.9	21	22	96.1	104	105	5.6	4	4
*GLENN-GARNO 900X	19.9	--	--	119.7	--	--	4.7	--	--
SUPER CROST 2196	20.0	--	--	98.3	--	--	2.3	--	--
CARGILL 3537	20.0	--	--	108.1	--	--	8.1	--	--
GREAT LAKES 87674	20.2	--	--	84.8	--	--	4.4	--	--
GOLDEN HARVEST H-2343	20.2	--	--	107.1	--	--	6.1	--	--
ASGROW/O'S GOLD RX498	20.3	--	--	81.8	--	--	1.5	--	--
KING K4422	20.3	22	21	106.4	98	99	5.9	4	4
WOLVERINE W156	20.4	21	--	110.3	122	--	9.2	8	--
JACQUES 4900	20.5	--	--	79.8	--	--	5.8	--	--
GARST 8702	20.5	--	--	80.0	--	--	7.5	--	--
ANDERSONS PSX93	20.5	--	--	85.9	--	--	7.4	--	--
*DEKALB-PFIZER DK461	20.6	22	22	123.2	112	110	8.8	7	5
NORTHROP KING PX9283	20.7	22	--	91.8	98	--	5.3	4	--
MAUMEE VALLEY MV-611	20.8	22	--	106.3	110	--	4.3	4	--
DAIRYLAND DX1096	20.8	21	22	108.4	117	114	6.1	5	5
STAUFFER SEEDS S4474	20.9	--	--	113.6	--	--	4.6	--	--
NORTHROP KING PX9385	20.9	22	--	111.4	119	--	4.3	3	--
CARGILL 859	20.9	22	22	104.2	101	102	6.0	7	6
*DEKALB-PFIZER DK524	21.1	23	23	126.9	134	134	7.1	6	4
TRELAY 5808	21.1	--	--	84.6	--	--	5.1	--	--
*GLENN-GARNO 1003	21.1	--	--	116.7	--	--	4.6	--	--
BETAGOLD KRISTINE	21.2	23	--	91.1	99	--	3.9	4	--
*CARGILL 130411	21.3	--	--	116.4	--	--	6.0	--	--
DAIRYLAND DX1108	21.3	23	--	86.6	101	--	3.8	4	--
PAYCO SX686	21.3	--	--	99.9	--	--	5.2	--	--
*GREAT LAKES GL-482	21.4	--	--	115.7	--	--	3.1	--	--
AGRIPRO 474A	21.5	--	--	80.6	--	--	3.7	--	--
CARGILL 5157	21.5	--	--	112.8	--	--	2.3	--	--
*ASGROW/O'S GOLD RX578	21.6	--	--	117.3	--	--	7.0	--	--
DAIRYLAND DX1103	21.6	23	--	94.0	99	--	2.1	4	--
*DAIRYLAND DX1105	21.6	23	24	138.5	128	128	6.9	6	5
GOLDEN HARVEST H-2492	21.6	--	--	103.1	--	--	6.5	--	--
*GREAT LAKES 87676	21.7	--	--	119.1	--	--	7.2	--	--
KING K4464	21.8	23	--	89.2	95	--	7.6	5	--

(continued next page)

TABLE 08 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Ottawa County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
GLENN-GARNO 944	21.8	23	--	77.9	90	--	3.7	3	--
AGRIPRO 644	21.9	--	--	114.1	--	--	3.2	--	--
GREAT LAKES GL-509	22.0	--	--	109.4	--	--	3.6	--	--
*NORTHROP KING PX39	22.0	--	--	121.0	--	--	3.7	--	--
ASGROW/O'S GOLD RX626	22.0	--	--	83.8	--	--	2.3	--	--
WOLVERINE W168	22.1	23	23	98.6	119	106	6.7	5	5
ANDERSONS Q5X95	22.2	--	--	87.9	--	--	10.8	--	--
GLENN-GARNO 1005	22.2	--	--	90.9	--	--	3.8	--	--
*ANDERSONS PSX100	22.3	--	--	119.4	--	--	3.8	--	--
*SUPER CROST 2989	22.5	24	--	122.2	130	--	8.5	5	--
*JACQUES 7700	22.5	24	25	133.3	134	131	2.2	4	4
*STAUFFER SEEDS S5650	22.6	--	--	128.3	--	--	2.3	--	--
*GREAT LAKES GL-579	22.6	24	--	122.4	124	--	3.8	4	--
MAUMEE VALLEY MV-762	22.6	24	--	98.4	120	--	5.9	5	--
*STAUFFER SEEDS S5340	22.7	24	24	135.0	138	133	4.7	5	5
KING K5574	22.7	24	--	113.1	116	--	4.6	4	--
GRIES GSFX580	22.8	--	--	88.2	--	--	7.1	--	--
AGRIPRO 680	22.8	--	--	04.2	--	--	3.7	--	--
PICKSEED 8898	22.8	24	25	89.0	103	108	7.0	5	4
*GLENN-GARNO 1007	22.9	24	25	119.4	123	122	6.0	6	4
*GRIES GSFX622A	23.0	--	--	119.3	--	--	3.1	--	--
PIONEER 3540	23.0	24	24	110.1	122	116	0.7	1	2
*COUNTRYMARK C565X	23.0	24	--	115.3	108	--	5.2	5	--
GOLDEN HARVEST H-2465	23.3	--	--	92.6	--	--	3.8	--	--
PAYCO SX872	23.4	25	25	102.5	119	123	3.0	3	2
CARGILL 130410	23.6	--	--	106.3	--	--	3.1	--	--
MAUMEE VALLEY MV-812	23.8	--	--	100.0	--	--	4.3	--	--
DAIRYLAND DX1107	24.1	25	26	92.3	102	111	3.1	3	2
GOLDEN HARVEST H-2572	25.1	--	--	110.9	--	--	0.0	--	--
AVERAGE	21.3	23	23	103.0	114	116	5.2	5	4
RANGE	17.4	21	21	76.2	90	99	0.0	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	25.1	25	26	138.5	138	134	14.4	9	7
LEAST SIGNIFICANT DIFFERENCE	1.4	1.0	0.8	11.5	8	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 8	May 7	May 9
HARVESTED	October 19	October 31	October 31
SOIL TYPE	Gilford & Sibewa Loam	Gilford & Sibewa Loam	Gilford & Sibewa Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	20,900	21,100	21,700
ROWS	30"	30"	30"
FERTILIZER	112-52-52	92-48-48	109-36-36
SOIL TEST: pH	6.7	6.1	5.8
P	377 (very high)	173 (very high)	176 (very high)
K	490 (very high)	369 (very high)	345 (very high)

FARM COOPERATOR: Gerald Geurink, Allendale

COUNTY AGRICULTURAL AGENT: Ira Krupp, Grand Haven

TABLE 09 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Ingham County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
PRO-SEED PS2100	21.9	--	--	120.2	--	--	5.5	--	--
*CARGILL B53	21.9	--	--	158.1	--	--	2.4	--	--
DAIRYLAND DX1103	21.9	--	--	135.7	--	--	2.2	--	--
*GLENN-GARNO 1003	22.0	--	--	160.2	--	--	2.9	--	--
CARGILL 5157	22.1	--	--	132.9	--	--	4.2	--	--
CARGILL 130411	22.2	--	--	139.6	--	--	5.3	--	--
GLENN-GARNO 1005	22.2	--	--	135.3	--	--	0.9	--	--
*MAUMEE VALLEY MV-630	22.3	23	--	154.5	149	--	3.0	2	--
RENK R148	22.3	23	24	129.4	138	144	3.9	2	2
*CARDINAL MX335	22.4	--	--	155.4	--	--	4.3	--	--
STAUFFER SEEDS S5340	22.4	24	25	134.2	145	154	2.2	1	1
*DEKALB-PFIZER DK547	22.5	24	--	159.8	156	--	7.8	4	--
*GARNO S-100X	22.5	24	24	151.4	159	161	0.8	1	1
*NORTHROP KING X4325	22.5	--	--	149.7	--	--	6.0	--	--
GREAT LAKES GL-509	22.6	--	--	141.0	--	--	8.9	--	--
PRIDE 5547	22.6	--	--	137.8	--	--	0.8	--	--
RENK RK68	22.6	24	--	123.7	142	--	2.5	2	--
*GLENN-GARNO 1007	22.6	24	24	158.9	167	165	4.5	2	2
*SUPER CROST 2989	22.7	23	24	144.7	153	158	8.1	6	4
PRO-SEED PS2104	22.7	--	--	132.4	--	--	7.9	--	--
DAIRYLAND DX1107	22.7	24	--	125.5	143	--	6.3	4	--
*DEKALB-PFIZER DK572	22.9	--	--	151.6	--	--	8.7	--	--
*GRIES GSFX580	22.9	--	--	153.5	--	--	4.1	--	--
ASGROW/O'S GOLD RX578	22.9	--	--	143.1	--	--	3.5	--	--
*KING K5574	22.9	24	25	163.7	160	165	2.4	2	2
ANDERSONS PSX103	22.9	24	--	139.0	149	--	3.6	2	--
*GOLDEN HARVEST H-2465	22.9	24	--	155.2	159	--	1.5	2	--
*GREAT LAKES GL-579	23.0	24	24	157.1	162	164	4.4	3	2
RUPP XR1639	23.0	24	25	146.8	155	158	2.3	2	2
JACQUES 7700	23.1	24	24	144.5	154	156	3.8	3	3
AGRIPRO 680	23.1	24	--	137.1	143	--	4.3	3	--
*MAUMEE VALLEY MV-762	23.1	24	--	149.6	153	--	6.1	4	--
MAUMEE VALLEY MV-812	23.2	--	--	136.7	--	--	2.9	--	--
*RENK RK64	23.2	24	24	160.3	162	162	0.0	0	1
STAUFFER SEEDS S5750	23.3	25	25	136.1	139	145	2.4	1	1
GREAT LAKES GL-584	23.3	--	--	138.7	--	--	2.5	--	--
ANDERSONS PSX107	23.5	26	--	142.9	146	--	3.8	2	--
*CARGILL HT105	23.7	24	--	154.3	154	--	3.8	2	--
DAIRYLAND DX1108	23.7	25	--	130.4	139	--	3.7	2	--
*VORIS V2471	23.7	25	25	156.6	158	162	5.4	3	2
CARGILL HT110	23.8	24	--	147.3	147	--	3.8	3	--
GRIES GSFX 622A	23.9	--	--	121.4	--	--	18.1	--	--
*MAUMEE VALLEY MV-888	23.9	--	--	157.9	--	--	6.1	--	--
MAUMEE VALLEY MV-851	24.0	25	--	137.0	153	--	1.5	1	--
*GREAT LAKES 5922	24.0	25	25	159.8	172	170	7.0	4	3
CARDINAL SX112	24.1	24	25	121.3	133	146	2.3	2	2
COUNTRYMARK C565X	24.1	24	--	147.6	145	--	4.9	2	--
*CARGILL 130410	24.6	--	--	156.3	--	--	4.3	--	--
RENK RK76	25.1	26	26	147.0	160	159	0.7	2	1
*CALLAHAN 19097X	25.1	--	--	152.1	--	--	8.2	--	--

(continued below)



TABLE 09

SOUTH CENTRAL MICHIGAN  
Ingham County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
GARST 8808	17.8	--	--	142.2	--	--	9.5	--	--
COUNTRYMARK C343X	18.2	--	--	135.8	--	--	26.3	--	--
DAIRYLAND DX1097	18.5	--	--	107.2	--	--	10.4	--	--
GOLDEN HARVEST H-2344	18.6	--	--	123.0	--	--	38.2	--	--
KING K416	18.7	20	20	145.7	147	138	5.6	3	3
CARGILL 3537	18.7	--	--	123.5	--	--	4.3	--	--
VORIS V2365	18.7	--	--	117.4	--	--	3.7	--	--
MAUMEE VALLEY MV-509	19.0	--	--	130.1	--	--	2.6	--	--
PIONEER 3737	19.1	21	21	134.8	138	141	11.1	6	6
CARGILL 3477	19.3	--	--	101.9	--	--	18.1	--	--
KING K4422	19.4	--	--	118.7	--	--	2.9	--	--
PRO-SEED PS2094	19.4	--	--	134.3	--	--	1.0	--	--
DAIRYLAND DX1095	19.4	--	--	136.6	--	--	18.2	--	--
CROW'S 199	19.5	21	--	131.7	141	--	6.9	3	--
STAUFFER SEEDS S3303	19.6	20	20	100.0	121	134	30.1	17	12
GREAT LAKES GL-487	19.7	21	21	144.7	146	150	5.9	5	3
GARST 8702	20.0	--	--	143.3	--	--	7.8	--	--
GREAT LAKES 86601	20.1	--	--	147.0	--	--	10.1	--	--
ASGROW/O'S GOLD RX498	20.1	--	--	141.4	--	--	4.5	--	--
RENK RK19	20.1	21	22	135.5	128	139	6.9	5	4
PRIDE 4422	20.2	21	22	118.1	126	134	4.8	3	3
BETAGOLD HEIDI	20.3	--	--	107.8	--	--	5.3	--	--
RENK R138	20.3	--	--	124.8	--	--	6.3	--	--
JACQUES 4900	20.5	--	--	127.6	--	--	13.1	--	--
GLENN-GARNO 944	20.5	22	--	147.5	151	--	0.7	0	--
*NORTHROP KING PX9385	20.6	22	--	152.3	149	--	2.2	1	--
BETAGOLD EXP.392	20.6	--	--	127.8	--	--	6.7	--	--
*PIONEER 3744	20.8	22	22	155.3	157	159	4.4	2	3
PIONEER 3704	20.8	22	--	140.5	145	--	0.0	0	--
*PICKSEED 8898	20.8	--	--	150.9	--	--	5.1	--	--
DEKALB-PFIZER DK524	20.9	22	21	135.6	141	146	8.2	5	4
MAUMEE VALLEY MV-611	20.9	22	--	134.7	131	--	6.7	4	--
*RUPP XR1527	20.9	--	--	151.1	--	--	2.9	--	--
GLENN-GARNO 900X	20.9	--	--	144.2	--	--	7.9	--	--
NORTHROP KING PX9292	21.1	--	--	124.3	--	--	2.9	--	--
AGRIPRO AP304	21.1	--	--	137.0	--	--	9.9	--	--
CARGILL HT95	21.2	22	--	117.7	124	--	7.5	4	--
CARDINAL MX320	21.3	--	--	117.0	--	--	0.0	--	--
STAUFFER SEEDS S4454WX	21.3	23	22	123.9	124	136	5.3	4	3
*GREAT LAKES GL-482	21.3	--	--	163.0	--	--	5.1	--	--
CARGILL 3987	21.3	--	--	122.1	--	--	6.0	--	--
DAIRYLAND DX1006	21.3	23	23	123.1	147	154	7.3	4	4
AGRIPRO 644	21.4	22	--	124.4	142	--	1.8	1	--
KING K4464	21.4	22	22	139.1	139	140	2.8	1	2
STAUFFER SEEDS S4590	21.5	--	--	121.8	--	--	3.1	--	--
ASGROW/O'S GOLD RX626	21.5	--	--	137.0	--	--	3.5	--	--
CROW'S 344	21.5	23	--	129.5	140	--	1.5	1	--
GOLDEN HARVEST H-2492	21.6	--	--	129.2	--	--	13.9	--	--
RENK RK25	21.8	23	23	138.6	135	144	2.9	1	1
CALLAHAN C754	21.8	24	24	129.7	148	156	2.3	2	2

*PIONEER 3540	25.3	25	25	152.8	160	157	2.2	1	1
RENK RK73	25.5	--	--	130.7	--	--	3.4	--	--
CARGILL HT120	26.1	30	--	117.6	120	--	0.8	1	--
GOLDEN HARVEST H-2572	26.1	26	27	138.3	159	164	3.0	2	2
MAUMEE VALLEY MV-910	26.2	--	--	135.1	--	--	5.2	--	--
CARGILL HT115	26.7	29	--	128.4	140	--	2.9	2	--
*GLENN-GARNO 1012	27.0	24	--	152.8	144	--	3.8	3	--
AVERAGE	21.7	24	23	135.0	146	152	5.7	3	3
RANGE	17.8	20	20	100.0	120	134	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.0	30	27	163.7	172	170	38.2	17	12
LEAST SIGNIFICANT DIFFERENCE	1.6	1.3	1.0	13.7	10	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	April 25	April 24	April 26
HARVESTED	October 3	October 11	October 17
SOIL TYPE	Capac Loam	Capac Loam	Capac Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,200	22,300	21,900
ROWS	36"	36"	36"
FERTILIZER	165-50-50	165-50-50	165-50-50
SOIL TEST: pH	6.4	5.9	6.1
P	140 (very high)	186 (very high)	155 (very high)
K	224 (high)	215 (high)	235 (high)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

(continued top right)

TABLE 10

SOUTH CENTRAL MICHIGAN  
Ingham County Trial - Silage  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE					
	1987	2		GREEN WEIGHT			DRY WEIGHT		
		YR	YR	YR	1987	2	3	1987	2
DAIRYLAND DX1097	49.2	--	--	11.5	--	--	5.7	--	--
STAUFFER SEEDS S3303	48.6	48.0	47.0	12.7	12.2	13.0	6.2	5.9	6.1
CARGILL 3477	48.4	--	--	12.6	--	--	6.1	--	--
NORTHROP KING PX9292	46.2	--	--	12.8	--	--	5.9	--	--
GLENN-GARNO 900X	46.1	--	--	14.1	--	--	6.5	--	--
GARST 8808	46.0	--	--	11.6	--	--	5.3	--	--
DAIRYLAND DX1095	46.0	--	--	13.9	--	--	6.4	--	--
PRO-SEED PS2094	45.8	--	--	12.6	--	--	5.8	--	--
GOLDEN HARVEST H-2344	45.5	--	--	12.7	--	--	5.8	--	--
PIONEER 3737	45.1	42.5	42.5	13.3	14.2	14.5	6.0	6.0	6.1
COUNTRYMARK C343X	43.9	--	--	14.5	--	--	6.3	--	--
PIONEER 3704	43.8	39.6	--	15.3	15.6	--	6.7	6.1	--
RUPP XR1527	43.8	--	--	13.7	--	--	6.0	--	--
CROW'S 199	42.8	40.0	--	14.8	15.8	--	6.3	6.3	--
KING K416	42.6	39.6	39.0	12.2	14.4	13.7	5.2	5.6	5.3
JACQUES 4900	41.8	--	--	14.9	--	--	6.2	--	--
KING K4422	41.8	--	--	14.9	--	--	6.2	--	--
PICKSEED 8898	41.8	--	--	15.2	--	--	6.4	--	--
GREAT LAKES GL-487	41.5	38.6	38.3	16.5	16.8	17.1	6.8	6.4	6.5
VORIS V2365	41.3	--	--	14.6	--	--	6.0	--	--
AGRIPRO AP304	41.1	--	--	14.3	--	--	5.9	--	--
STAUFFER SEEDS S4454WX	41.0	39.2	38.8	13.2	14.0	14.8	5.4	5.5	5.7
CARGILL 3537	40.8	--	--	15.4	--	--	5.9	--	--
CARGILL HT95	39.6	39.1	--	15.6	15.9	--	6.2	6.2	--
PIONEER 3744	39.5	36.4	37.5	16.5	16.5	16.4	6.5	6.0	6.1
NORTHROP KING PX9385	38.6	34.6	--	14.2	16.5	--	5.5	5.6	--
STAUFFER SEEDS S4590	38.5	--	--	14.8	--	--	5.7	--	--
MAUMEE VALLEY MV-509	38.4	--	--	13.9	--	--	5.3	--	--
GREAT LAKES GL-482	38.3	--	--	14.6	--	--	5.6	--	--
GLENN-GARNO 944	38.3	37.0	--	14.3	15.3	--	5.5	5.6	--
CARGILL 130411	38.0	--	--	15.0	--	--	5.7	--	--
RENK RK19	38.0	36.5	36.6	14.9	15.1	16.0	5.7	5.5	5.9
BETAGOLD EXP.392	37.8	--	--	16.9	--	--	6.4	--	--
PRIDE 4422	37.7	38.4	38.0	14.1	14.2	15.0	5.3	5.4	5.6
MAUMEE VALLEY MV-611	37.7	35.1	--	15.1	14.7	--	5.6	5.1	--
KING K4464	37.5	37.4	38.0	16.7	16.1	15.9	6.2	6.0	6.0
MAUMEE VALLEY MV-630	37.1	36.8	--	18.6	17.2	--	6.8	6.3	--
GREAT LAKES 86601	37.0	--	--	19.8	--	--	7.3	--	--
CARGILL 3987	36.8	--	--	18.8	--	--	6.9	--	--
DAIRYLAND DX1006	36.7	35.8	36.5	15.0	16.1	15.6	5.5	5.7	5.7
CARGILL HT105	36.5	33.6	--	17.0	17.7	--	6.4	6.0	--
CARDINAL SX112	35.9	35.4	35.4	15.0	16.2	17.1	5.4	5.7	6.0
RENK R148	35.7	35.6	35.7	16.8	17.0	17.3	6.0	6.1	6.2
GARST 8702	35.5	--	--	15.0	--	--	5.3	--	--
STAUFFER SEEDS S5750	35.4	34.8	35.9	16.4	15.9	16.3	5.8	5.5	5.8
PRO-SEED PS2100	35.4	--	--	18.4	--	--	6.4	--	--
CROW'S 344	35.4	33.8	--	17.9	17.6	--	6.2	5.9	--
GREAT LAKES GL-579	35.3	34.5	35.1	18.7	18.9	19.1	6.6	6.5	6.7
BETAGOLD HEIDI	35.3	--	--	21.0	--	--	7.4	--	--
DEKALB-PFIZER DK547	35.0	32.4	--	20.3	19.8	--	7.1	6.4	--

(continued below)

TABLE 10 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Ingham County Trial - Silage  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE					
	1987	2		GREEN WEIGHT			DRY WEIGHT		
		YR	YR	YR	1987	2	3	1987	2
AVERAGE	36.1	34.3	35.6	17.3	18.0	18.0	6.1	6.1	6.3
RANGE	25.9	25.8	29.4	11.5	12.2	13.0	4.8	5.1	5.3
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	49.2	48.0	47.0	25.9	24.6	24.7	7.7	7.1	7.3
LEAST SIGNIFICANT DIFFERENCE	3.3	2.2	1.7	2.3	1.7	1.3	0.6	0.5	0.5

	1987	1986	1985
PLANTED	April 25	April 24	April 26
HARVESTED	August 20	September 3	September 12
SOIL TYPE	Capac Loam	Capac Loam	Capac Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,400	21,600	22,000
ROWS	36"	36"	36"
FERTILIZER	165-50-50	165-50-50	165-50-50
SOIL TEST: pH	6.4	6.2	6.1
P	140(very high)	150(very high)	155(very high)
K	224(high)	220(high)	235(high)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

TABLE 11

NORTH CENTRAL MICHIGAN  
Sanilac County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1987	2		BUSHELS PER ACRE			% STALK LODGING		
		YR	YR	1987	2	3	1987	2	3
PRIDE 1194	21.0	23	--	130.0	140	--	1.5	1	--
*PIONEER 3901	21.9	24	23	155.0	165	168	0.0	1	1
GLENN-GARNO 888S	22.4	23	--	143.5	148	--	0.0	0	--
PRIDE X945	22.5	25	--	116.8	146	--	0.0	1	--
*DEKALB-PFIZER DK461	22.7	--	--	154.1	--	--	0.0	--	--
KING K2204	22.7	24	23	117.0	135	133	0.0	1	0
NORTHROP KING PX9292	22.8	--	--	132.7	--	--	0.7	--	--
PIONEER 3779	22.8	24	23	137.6	143	150	0.0	2	1
GLENN-GARNO 900	22.8	--	--	116.8	--	--	2.4	--	--
BETAGOLD INGRID	22.9	--	--	107.5	--	--	0.0	--	--
*GREAT LAKES GL-420	23.0	--	--	167.3	--	--	0.0	--	--
COUNTRYMARK C343X	23.0	--	--	128.6	--	--	0.0	--	--
CARGILL 3477	23.0	--	--	106.3	--	--	1.7	--	--
STAUFFER SEEDS S3303	23.5	25	23	137.2	154	146	3.1	2	2
GOLDEN HARVEST H-2344	23.5	26	26	120.6	139	148	0.0	2	1

(continued below)

GARNO S-100X	35.0	33.5	34.2	19.1	20.1	20.1	6.7	6.7	6.8
ASGROW/O'S GOLD RX498	35.0	--	--	15.7	--	--	5.5	--	--
KING K5574	35.0	32.2	33.4	16.0	17.7	18.0	5.6	5.7	6.0
PRO-SEED PS2104	35.0	--	--	15.7	--	--	5.5	--	--
STAUFFER SEEDS S5340	34.9	33.1	33.6	18.4	19.1	20.4	6.4	6.3	6.8
GLENN-GARNO 1005	34.8	--	--	17.5	--	--	6.1	--	--
MAUMEE VALLEY MV-812	34.6	--	--	19.8	--	--	6.9	--	--
ANDERSONS PSX107	34.6	32.6	--	16.8	16.4	--	5.8	5.3	--
RUPP XR1639	34.5	32.8	33.6	15.9	17.8	18.5	5.5	5.8	6.2
CARGILL 130410	34.4	--	--	18.6	--	--	6.4	--	--
RENK RK138	34.4	--	--	16.9	--	--	5.8	--	--
DEKALB-PFIZER DK524	34.3	34.1	35.4	18.6	18.8	18.4	6.4	6.4	6.5
CARGILL 5157	34.2	--	--	21.3	--	--	7.3	--	--
SUPER CROST 2989	34.1	33.5	34.2	16.8	18.4	18.8	5.8	6.2	6.4
GRIES GSF580	34.1	--	--	20.6	--	--	7.0	--	--
CARDINAL MX320	34.0	--	--	17.7	--	--	5.9	--	--
MAUMEE VALLEY MV-762	34.0	33.5	--	20.6	20.9	--	6.9	6.9	--
GLENN-GARNO 1007	34.0	32.8	33.4	19.1	19.8	19.9	6.5	6.5	6.6
GREAT LAKES GL-584	33.8	--	--	20.2	--	--	6.8	--	--
DAIRYLAND DX1107	33.8	32.6	--	18.6	18.0	--	6.3	5.9	--
GOLDEN HARVEST H-2465	33.8	33.4	--	19.2	19.7	--	6.5	6.6	--
DAIRYLAND DX1108	33.7	33.3	--	18.8	17.7	--	6.5	5.9	--
AGRIPRO 644	33.6	34.1	--	17.1	16.7	--	5.7	5.6	--
DEKALB-PFIZER DK572	33.3	--	--	19.2	--	--	6.4	--	--
GREAT LAKES GL-509	33.3	--	--	18.3	--	--	6.1	--	--
COUNTRYMARK C565X	33.3	32.4	--	16.9	18.2	--	5.7	5.9	--
GOLDEN HARVEST H-2492	33.3	--	--	17.4	--	--	5.8	--	--
VORIS V2471	33.3	33.0	34.2	20.3	19.7	19.9	6.8	6.5	6.8
GLENN-GARNO 1003	32.8	--	--	18.2	--	--	6.2	--	--
CALLAHAN C754	32.8	33.3	33.4	21.8	19.9	20.5	7.2	6.6	6.8
GREAT LAKES 5922	32.8	33.5	34.1	21.3	20.8	20.7	7.0	7.0	7.0
JACQUES 7700	32.6	33.0	33.5	21.1	20.0	19.4	6.9	6.6	6.5
ANDERSONS PSX103	32.4	32.4	--	18.2	17.1	--	5.8	5.5	--
PRIDE 5547	32.3	--	--	17.9	--	--	5.8	--	--
RENK RK25	32.3	--	--	17.3	--	--	5.6	--	--
CALLAHAN 19097X	32.0	--	--	21.7	--	--	6.9	--	--
MAUMEE VALLEY MV-851	31.9	30.6	--	17.9	19.0	--	5.7	5.8	--
NORTHROP KING X4325	31.7	--	--	22.3	--	--	7.1	--	--
ASGROW/O'S GOLD RX626	31.6	--	--	19.4	--	--	6.0	--	--
PIONEER 3540	31.4	32.4	33.0	23.9	22.0	20.8	7.5	7.1	6.8
DAIRYLAND DX1103	31.4	--	--	19.1	--	--	6.0	--	--
RENK RK76	31.4	30.4	30.8	18.5	21.1	21.2	5.8	6.4	6.5
RENK RK64	31.4	32.3	33.3	18.8	18.1	18.4	5.9	5.8	6.1
MAUMEE VALLEY MV-888	31.2	--	--	23.5	--	--	7.3	--	--
RENK RK68	31.2	30.3	--	17.3	18.8	--	5.4	5.7	--
ASGROW/O'S GOLD RX578	31.1	--	--	16.1	--	--	5.0	--	--
CARGILL B55	31.1	--	--	24.4	--	--	7.5	--	--
RENK RK73	30.3	--	--	20.4	--	--	6.1	--	--
CARGILL HT115	30.0	29.0	--	20.1	21.7	--	6.0	6.2	--
AGRIPRO 680	29.7	29.2	--	19.7	20.7	--	5.8	5.9	--
GOLDEN HARVEST H-2572	29.7	29.0	29.4	25.9	24.6	24.7	7.7	7.1	7.3
GLENN-GARNO 1012	29.3	--	--	19.1	--	--	5.6	--	--
CARDINAL MX335	29.0	--	--	16.7	--	--	4.9	--	--
MAUMEE VALLEY MV-910	28.5	--	--	23.0	--	--	6.6	--	--
GRIES GSF622A	26.3	--	--	19.0	--	--	5.0	--	--
CARGILL HT120	26.3	26.0	--	23.2	24.3	--	6.1	6.3	--
CARGILL HT110	25.9	25.8	--	18.5	21.9	--	4.8	5.6	--

(continued top right)

TERRA TR151E	23.6	--	--	128.4	--	--	1.7	--	--
GREAT LAKES GL-487	23.7	25	24	143.9	153	154	1.5	2	1
*PIONEER 3737	23.7	25	24	163.7	162	158	0.0	1	1
DAIRYLAND DX1097	23.7	25	23	128.3	148	142	0.0	2	2
CALLAHAN C726	23.7	--	--	115.0	--	--	4.4	--	--
GLENN-GARNO 944	23.8	25	--	135.4	149	--	0.0	0	--
CARGILL 3987	23.9	--	--	124.4	--	--	0.0	--	--
PRIDE 2244	24.0	26	--	108.9	136	--	0.0	1	--
GARST 8882	24.2	--	--	120.9	--	--	2.3	--	--
STAUFFER SEEDS S3306	24.3	--	--	118.8	--	--	0.0	--	--
*DEKALB-PFIZER DK524	24.3	26	25	150.7	162	164	0.0	0	0
DAIRYLAND DX1095	24.4	--	--	128.0	--	--	1.5	--	--
ASGROW/O'S GOLD 2330	24.6	26	25	110.9	139	148	1.6	2	2
GARST 8808	24.7	--	--	129.7	--	--	0.0	--	--
JACQUES 4900	24.8	--	--	134.2	--	--	1.5	--	--
PIONEER 3790	24.8	26	--	124.2	133	--	2.6	1	--
DAIRYLAND DX1006	24.8	28	--	127.8	149	--	0.0	1	--
SUPER CROST 1989	24.9	--	--	106.2	--	--	0.7	--	--
*KING K416	24.9	26	25	159.4	163	163	0.0	2	1
RENK R138	25.0	--	--	116.5	--	--	0.0	--	--
STAUFFER SEEDS S4474	25.1	--	--	122.2	--	--	0.0	--	--
ASGROW/O'S GOLD RX406	25.1	--	--	119.8	--	--	0.0	--	--
STAUFFER SEEDS S4590	25.2	--	--	140.5	--	--	0.0	--	--
TERRA TR29	25.2	--	--	132.3	--	--	0.0	--	--
TERRA TR975	25.3	--	--	128.9	--	--	0.0	--	--
*RENK RK19	25.3	27	--	163.2	160	--	3.4	3	--
*PIONEER 3744	25.4	26	25	161.4	164	166	0.0	1	1
CARGILL 3537	25.4	--	--	130.3	--	--	0.9	--	--
NORTHROP KING PX9385	25.5	--	--	139.7	--	--	0.8	--	--
GLENN-GARNO 900X	25.6	--	--	122.1	--	--	0.0	--	--
GREAT LAKES GL-482	25.8	--	--	147.9	--	--	0.0	--	--
TERRA TR3100	25.8	--	--	119.6	--	--	1.5	--	--
RENK RK7A	25.8	--	--	127.1	--	--	0.0	--	--
DEKALB-PFIZER DK547	25.9	--	--	128.3	--	--	1.5	--	--
BETAGOLD KRISTINE	25.9	--	--	108.4	--	--	0.0	--	--
TERRA TR162E	26.0	--	--	126.3	--	--	0.0	--	--
GLENN-GARNO 1003	26.0	--	--	136.3	--	--	0.0	--	--
CALLAHAN C728	26.0	26	25	141.9	155	157	1.5	2	1
TERRA TR32	26.1	--	--	131.2	--	--	0.0	--	--
RENK RK27	26.1	--	--	118.2	--	--	0.8	--	--
GOLDEN HARVEST H-2343	26.1	--	--	147.7	--	--	0.0	--	--
CALLAHAN C738	26.2	28	--	122.7	136	--	0.7	2	--
AGRIPRO HP277	26.3	27	25	124.2	142	137	1.6	2	2
KING K4422	26.3	--	--	109.8	--	--	0.0	--	--
TERRA TR3102	26.3	--	--	131.2	--	--	0.0	--	--
DAIRYLAND DX1102	26.3	27	26	112.0	131	144	1.7	1	1
*PICKSEED 5575	26.3	27	25	160.8	164	159	0.0	0	0
GLENN-GARNO 988	26.3	27	--	136.1	156	--	0.0	1	--
CUSTOM CFS W4052	26.3	--	--	119.6	--	--	1.6	--	--
STAUFFER SEEDS S4454WX	26.4	27	26	127.2	149	150	0.0	0	0
*PIONEER 3475	26.4	27	--	165.3	166	--	0.0	1	--
*DAIRYLAND DX1103	26.4	27	--	156.4	146	--	0.0	1	--
ANDERSONS PSX99	26.4	27	--	129.6	137	--	0.0	2	--
*CARGILL HT95	26.5	28	--	164.1	158	--	0.0	2	--
RENK R148	26.5	27	--	115.7	130	--	0.0	0	--
*CARGILL 5157	26.6	--	--	153.2	--	--	0.0	--	--
*CARGILL 130411	26.7	--	--	154.8	--	--	0.7	--	--

(continued next page)

TABLE 11 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Sanilac County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
*CUSTOM CFS6203	26.8	--	--	154.9	--	--	1.7	--	--
SUPER CROST 2989	27.0	29	28	148.3	161	164	1.5	2	1
SUPER CROST EXP. 87105	27.3	--	--	134.1	--	--	1.5	--	--
PRIDE 4422	27.3	27	26	139.3	146	144	1.5	2	2
ANDERSONS PSX100	27.5	--	--	147.8	--	--	0.0	--	--
ASGROW/O'S GOLD RX498	27.6	--	--	137.6	--	--	0.0	--	--
*GLENN-GARNO 1007	27.6	--	--	151.7	--	--	0.0	--	--
*GREAT LAKES GL-579	27.7	29	28	153.6	165	160	0.0	1	1
*KING K5574	27.7	30	29	161.6	163	161	0.0	2	1
TERRA TR1040	27.8	--	--	148.3	--	--	0.0	--	--
COUNTRYMARK C565X	28.0	--	--	138.9	--	--	0.0	--	--
*STAUFFER SEEDS S5340	28.1	29	28	164.0	168	163	0.0	1	1
AGRIPRO 680	28.1	29	--	134.7	153	--	1.6	2	--
CARGILL 6127	28.1	--	--	132.8	--	--	1.6	--	--
TERRA TR3200	28.1	--	--	110.1	--	--	1.5	--	--
JACQUES 5710	28.2	--	--	116.2	--	--	0.8	--	--
AGRIPRO 644	28.2	28	--	115.8	140	--	0.0	2	--
PAYCO SX847	28.2	30	--	123.5	132	--	0.0	0	--
STAUFFER SEEDS S5750	28.4	30	28	143.7	141	151	0.0	0	0
GRIES GSFX580	28.8	--	--	128.0	--	--	0.0	--	--
*PRIDE 5547	28.8	--	--	162.4	--	--	0.8	--	--
*RENK RK64	28.8	--	--	160.1	--	--	0.7	--	--
CARGILL HT105	28.9	30	--	111.0	134	--	3.2	2	--
GOLDEN HARVEST EX536	28.9	--	--	141.7	--	--	0.0	--	--
GREAT LAKES GL-509	29.0	--	--	141.6	--	--	0.8	--	--
GLENN-GARNO 1005	29.0	--	--	118.9	--	--	1.7	--	--
CALLAHAN C747	29.2	30	--	145.1	149	--	0.0	2	--
GRIES GSFX622A	29.6	--	--	142.9	--	--	1.7	--	--
ANDERSONS PSX107	29.8	30	--	122.2	137	--	0.0	0	--
*CARGILL 130410	30.2	--	--	161.2	--	--	0.0	--	--
GOLDEN HARVEST H-2492	30.3	--	--	118.1	--	--	0.0	--	--
TERRA TR1060	30.6	--	--	122.5	--	--	0.0	--	--
*AGRIPRO 710A	30.7	--	--	159.3	--	--	1.6	--	--
*GOLDEN HARVEST H-2572	31.1	32	31	156.9	154	142	0.0	1	1
AVERAGE	21.6	27	26	135.0	149	153	0.6	1	1
RANGE	21.0	23	23	106.2	130	133	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	31.1	32	31	167.3	168	168	4.4	3	2
LEAST SIGNIFICANT DIFFERENCE	1.9	1.5	1.1	14.2	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

(continued below)

TABLE 12 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Sanilac County Trial - Silage  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1987	2	3	1987	2	3	1987	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
ASGROW/O'S GOLD RX406	28.3	--	--	21.9	--	--	6.2	--	--
CALLAHAN C726	28.3	--	--	23.3	--	--	6.6	--	--
SUPER CROST 1989	28.2	--	--	20.6	--	--	5.8	--	--
PRIDE 2244	28.2	41.8	--	17.7	16.0	--	5.0	6.4	--
AGRIPRO HP277	28.1	39.8	38.8	19.9	18.2	16.9	5.6	7.0	6.4
PIONEER 3901	28.0	41.1	42.9	19.3	17.4	16.9	5.4	6.9	7.0
TERRA TR975	28.0	--	--	18.6	--	--	5.2	--	--
CARGILL 3477	27.9	--	--	22.4	--	--	6.2	--	--
GOLDEN HARVEST H-2344	27.8	41.6	43.1	19.4	16.6	15.6	5.4	6.5	6.4
GREAT LAKES GL-482	27.7	--	--	22.6	--	--	6.3	--	--
ASGROW/O'S GOLD RX498	27.7	--	--	23.3	--	--	6.4	--	--
DEKALB-PFIZER DK461	27.6	--	--	24.7	--	--	6.8	--	--
JACQUES 4900	27.6	--	--	20.3	--	--	5.6	--	--
GREAT LAKES GL-487	27.6	40.1	40.0	22.1	19.0	18.5	6.1	7.2	7.1
PIONEER 3744	27.6	39.3	38.8	21.2	18.6	17.9	5.9	7.0	6.8
PRIDE 4422	27.6	39.5	39.6	21.2	18.9	17.7	5.9	7.2	6.8
PIONEER 3779	27.5	41.6	42.8	21.7	17.7	16.6	6.0	6.8	7.0
GLENN-GARNO 900X	27.5	--	--	21.7	--	--	6.0	--	--
GLENN-GARNO 900	27.3	--	--	19.4	--	--	5.3	--	--
COUNTRYMARK C565X	27.2	--	--	24.7	--	--	6.7	--	--
PICKSEED 5575	27.2	38.8	39.2	23.6	19.7	19.3	6.4	7.2	7.3
CARGILL 3537	27.1	--	--	23.6	--	--	6.4	--	--
GREAT LAKES GL-509	26.9	--	--	23.8	--	--	6.4	--	--
CARGILL 130410	26.9	--	--	26.4	--	--	7.1	--	--
PAYCO SX847	26.9	38.6	--	25.7	22.1	--	7.0	8.1	--
TERRA TR3102	26.8	--	--	20.7	--	--	5.6	--	--
GLENN-GARNO 1005	26.8	--	--	21.9	--	--	5.9	--	--
TERRA TR1060	26.7	--	--	22.8	--	--	6.0	--	--
RENK RK7A	26.6	--	--	20.0	--	--	5.3	--	--
KING K4422	26.5	--	--	23.4	--	--	6.2	--	--
DEKALB-PFIZER DK547	26.4	--	--	25.4	--	--	6.7	--	--
GLENN-GARNO 944	26.4	40.3	--	21.2	17.9	--	5.6	6.7	--
PRIDE 5547	26.3	--	--	22.1	--	--	5.9	--	--
SUPER CROST EXP.87105	26.2	--	--	21.7	--	--	5.7	--	--
TERRA TR3200	26.1	--	--	24.3	--	--	6.3	--	--
STAUFFER SEEDS S4454WX	26.0	38.7	38.9	20.8	18.1	17.4	5.4	6.7	6.6
JACQUES 5710	26.0	--	--	25.7	--	--	6.7	--	--
RENK RK27	26.0	--	--	19.8	--	--	5.1	--	--
STAUFFER SEEDS S5340	25.9	36.8	36.7	25.9	22.8	21.8	6.7	8.0	7.8
KING K5574	25.9	38.3	35.6	27.8	22.6	21.6	7.2	8.0	7.3
ANDERSONS PSX100	25.9	--	--	22.6	--	--	5.9	--	--
GLENN-GARNO 1007	25.9	--	--	26.8	--	--	6.9	--	--
TERRA TR162E	25.8	--	--	19.4	--	--	5.0	--	--
ANDERSONS PSX99	25.8	39.0	--	20.0	17.5	--	5.2	6.5	--
GRIES GSFX580	25.7	--	--	24.3	--	--	6.2	--	--
DAIRYLAND DX1006	25.7	37.1	37.1	20.3	18.8	17.9	5.2	6.8	6.5
GOLDEN HARVEST H-2492	25.7	--	--	26.5	--	--	6.8	--	--
STAUFFER SEEDS S4474	25.6	--	--	21.5	--	--	5.5	--	--
GREAT LAKES GL-579	25.6	35.6	35.6	27.0	23.7	22.3	6.9	8.1	7.7
CARGILL HT95	25.6	37.9	--	24.7	21.6	--	6.3	7.8	--

(continued below)

	1987	1986	1985
PLANTED	May 9	May 12	May 3
HARVESTED	October 26	November 6	October 28
SOIL TYPE	Parkhill Loam	Parkhill Loam	Parkhill Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,000	21,500	21,800
ROWS	30"	30"	30"
FERTILIZER	149-52-172	135-60-150	157-69-90
SOIL TEST: pH	6.6	7.0	6.2
P	148 (very high)	121 (very high)	175 (very high)
K	376 (very high)	413 (very high)	304 (very high)

FARM COOPERATOR: Ray Orchard, Applegate

COUNTY AGRICULTURAL AGENT: Martin Nagelkirk, Sandusky (1987)  
Rex Sieting, Sandusky (1986, 1985)

TABLE 12 NORTH CENTRAL MICHIGAN ZONE 3  
Sanilac County Trial - Silage  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1987	2 YR	3 YR	1987	2 YR	3 YR	1987	2 YR	3 YR
BETAGOLD INGRID	32.3	--	--	18.6	--	--	6.0	--	--
PRIDE 1194	31.3	44.5	--	19.5	16.2	--	6.1	6.8	--
TERRA TR151E	31.2	--	--	19.5	--	--	6.1	--	--
GLENN-GARNO 888S	31.2	42.7	--	18.9	17.0	--	5.9	7.0	--
TERRA TR3100	31.1	--	--	20.7	--	--	6.4	--	--
NORTHROP KING PX9292	30.8	--	--	20.7	--	--	6.4	--	--
CARGILL 130411	30.7	--	--	21.2	--	--	6.7	--	--
STAUFFER SEEDS S3303	30.5	43.8	45.2	17.3	14.6	13.8	5.3	6.0	6.0
STAUFFER SEEDS S3306	30.2	--	--	21.9	--	--	6.6	--	--
PIONEER 3790	30.2	44.2	--	21.0	17.1	--	6.4	7.0	--
GOLDEN HARVEST H-2343	30.1	--	--	23.3	--	--	7.0	--	--
GLENN-GARNO 988	29.7	40.9	--	20.7	18.8	--	6.3	7.6	--
GARST 8882	29.6	--	--	18.1	--	--	5.3	--	--
RENK RK19	29.6	40.3	--	24.3	19.4	--	7.1	7.2	--
ASGROW/O'S GOLD 2330	29.3	39.5	40.8	21.0	18.8	18.0	6.1	7.2	7.1
KING K416	28.9	40.9	41.3	18.8	17.5	17.0	5.5	7.0	6.9
DAIRYLAND DX1097	28.9	41.3	42.3	18.4	16.0	14.9	5.3	6.3	6.1
PIONEER 3737	28.6	40.1	41.2	21.0	19.0	17.7	6.1	7.4	7.1
KING K2204	28.6	42.9	46.1	19.5	15.9	14.7	5.6	6.3	6.4
DAIRYLAND DX1095	28.5	--	--	21.4	--	--	6.1	--	--
COUNTRYMARK C343X	28.4	--	--	23.6	--	--	6.7	--	--
GARST 8808	28.4	--	--	21.7	--	--	6.2	--	--
STAUFFER SEEDS S4590	28.3	--	--	24.7	--	--	7.0	--	--
GREAT LAKES GL-420	28.3	--	--	19.3	--	--	5.5	--	--
PRIDE X945	28.3	39.8	--	22.8	19.6	--	6.5	7.5	--

(continued top right)

DAIRYLAND DX1102	25.6	38.3	37.3	24.2	19.6	17.8	6.2	6.9	6.3
RENK RK138	25.6	--	--	19.5	--	--	5.0	--	--
RENK RK148	25.5	37.4	--	20.8	19.0	--	5.3	6.9	--
DEKALB-PFIZER DK524	25.4	37.2	38.0	24.8	20.6	19.1	6.3	7.2	6.9
CALLAHAN C747	25.2	38.0	--	22.8	18.8	--	5.8	6.6	--
AGRIPRO 644	25.1	35.4	--	26.7	22.0	--	6.7	7.3	--
AGRIPRO 680	25.1	36.1	--	22.8	20.7	--	5.7	7.2	--
CARGILL 6127	25.1	--	--	29.5	--	--	7.4	--	--
DAIRYLAND DX1103	25.1	37.9	--	29.1	22.3	--	7.3	7.6	--
GLENN-GARNO 1003	25.1	--	--	22.7	--	--	5.7	--	--
CUSTOM CFS 6203	25.1	--	--	28.3	--	--	7.1	--	--
CALLAHAN C738	25.1	39.6	--	23.8	18.7	--	6.0	6.7	--
ANDERSONS PSX107	25.0	36.7	--	19.8	17.2	--	5.0	6.0	--
PIONEER 3475	24.8	37.2	--	27.0	22.5	--	6.7	7.8	--
CALLAHAN C728	24.7	39.1	42.9	21.2	17.9	15.0	5.2	6.5	5.9
STAUFFER SEEDS S5750	24.6	35.5	34.2	25.6	20.8	20.7	6.3	6.9	6.7
SUPER CROST 2989	24.6	36.1	35.5	24.5	21.1	21.5	6.0	7.2	7.4
CARGILL 3987	24.6	--	--	21.4	--	--	5.3	--	--
BETAGOLD KRISTINE	24.5	--	--	20.0	--	--	4.9	--	--
TERRA TR1040	24.5	--	--	21.2	--	--	5.2	--	--
GOLDEN HARVEST EX536	24.5	--	--	26.4	--	--	6.4	--	--
CARGILL 5157	24.3	--	--	23.8	--	--	5.8	--	--
NORTHROP KING PX9385	23.5	--	--	19.3	--	--	4.6	--	--
CUSTOM CFS W4052	23.3	--	--	19.1	--	--	4.5	--	--
GRIES GSF622A	23.2	--	--	22.8	--	--	5.4	--	--
TERRA TR29	23.1	--	--	21.0	--	--	4.8	--	--
RENK RK64	23.0	--	--	19.3	--	--	4.4	--	--
CARGILL HT105	22.7	36.6	--	20.7	18.2	--	4.7	6.3	--
TERRA TR32	22.1	--	--	20.5	--	--	4.5	--	--
AGRIPRO 710A	22.0	--	--	22.4	--	--	4.9	--	--
GOLDEN HARVEST H-2572	22.0	32.9	31.7	23.8	21.3	22.5	5.2	6.7	6.9
AVERAGE	26.8	39.1	39.4	22.3	19.1	18.1	6.0	7.0	6.8
RANGE	22.0	32.9	31.7	17.3	14.6	13.8	4.4	6.0	5.9
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	32.3	44.5	46.1	29.5	23.7	22.5	7.4	8.1	7.8
LEAST SIGNIFICANT DIFFERENCE	3.1	2.4	2.0	2.8	1.9	1.5	0.7	0.6	0.5

	1987	1986	1985
PLANTED	May 9	May 12	May 2
HARVESTED	September 9	October 22	September 19
SOIL TYPE	Parkhill Loam	Parkhill Loam	Linwood Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	20,300	20,100	21,800
ROWS	30"	30"	30"
FERTILIZER	149-52-172	135-60-150	214-138-180
SOIL TEST: pH	6.6	7.0	7.6
P	148(very high)	121(very high)	177(very high)
K	376(very high)	413(very high)	391(very high)

FARM COOPERATOR: Ray Orchard, Applegate (1987, 1986); Charles Cork, Peck (1985)

COUNTY EXTENSION AGENT: Martin Nagelkirk, Sandusky (1987),  
Rex Sieting, Sandusky (1986, 1985)

TABLE 13

NORTH CENTRAL MICHIGAN  
Saginaw County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
GREAT LAKES GL-420	17.6	--	--	145.2	--	--	4.7	--	--
KING K2204	17.6	19	20	133.3	137	121	4.9	5	3
WOLVERINE W189	17.7	--	--	124.1	--	--	7.0	--	--
PIONEER 3790	17.7	20	--	123.8	129	--	2.2	3	--
COUNTRYMARK C343X	17.7	--	--	128.5	--	--	5.4	--	--
WOLVERINE W130	17.9	--	--	110.4	--	--	9.7	--	--
PRIDE X945	17.9	20	--	113.7	128	--	4.3	4	--
GOLDEN HARVEST H-2344	17.9	20	21	129.3	150	131	3.5	2	2
DAIRYLAND DX1095	18.0	--	--	135.0	--	--	9.6	--	--
BETAGOLD INGRID	18.1	20	--	125.4	149	--	5.2	5	--
CARGILL 3477	18.1	--	--	114.3	--	--	7.9	--	--
CARGILL 3537	18.1	--	--	134.9	--	--	7.2	--	--
RUPP XR1492	18.1	--	--	125.2	--	--	7.4	--	--
DAIRYLAND DX1097	18.4	20	20	119.0	138	131	7.0	4	3
DAIRYLAND DX1096	18.5	20	20	129.2	152	136	8.3	6	5
GLENN-GARNO 888S	18.5	20	--	147.4	161	--	2.8	4	--
STAUFFER SEEDS S3303	18.6	--	--	133.4	--	--	13.2	--	--
PRIDE EXP. 99	18.6	--	--	130.9	--	--	11.7	--	--
GARST 8882	18.6	--	--	109.1	--	--	4.4	--	--
DAIRYLAND DX1006	18.6	21	22	132.6	144	137	8.2	6	5
PIONEER 3779	18.7	20	20	140.7	146	127	1.4	3	2
PIONEER 3901	18.7	20	20	147.0	156	137	5.0	3	3
KING K416	18.7	20	20	131.9	149	131	2.8	2	1
TERRA TR151E	18.7	--	--	147.0	--	--	5.1	--	--
JACQUES 4900	18.9	--	--	138.6	--	--	2.3	--	--
TERRA TR29	18.9	--	--	140.5	--	--	4.4	--	--
GOLDEN HARVEST H-2343	19.0	--	--	125.1	--	--	5.3	--	--
GARST 8808	19.1	--	--	134.1	--	--	4.1	--	--
TERRA TR162E	19.1	--	--	103.4	--	--	9.5	--	--
RENK RK21	19.1	--	--	114.1	--	--	6.6	--	--
RENK RK7A	19.2	--	--	100.1	--	--	2.2	--	--
*GOLDEN HARVEST EX710	19.2	--	--	154.8	--	--	4.1	--	--
SUPER CROST 1989	19.3	--	--	129.3	--	--	4.8	--	--
TERRA TR32	19.3	--	--	112.3	--	--	2.9	--	--
GLENN-GARNO 900	19.3	--	--	122.3	--	--	1.4	--	--
SELECT 2626	19.4	21	--	147.9	150	--	1.6	1	--
DAIRYLAND DX1102	19.4	22	22	111.2	124	114	3.1	2	2
*WOLVERINE W156	19.5	--	--	150.5	--	--	4.2	--	--
*RENK RK19	19.5	21	21	152.3	147	139	2.8	3	2
WOLVERINE W163	19.6	--	--	136.6	--	--	0.7	--	--
BETAGOLD KRISTINE	19.6	--	--	127.2	--	--	4.1	--	--
TERRA TR975	19.6	--	--	131.1	--	--	2.9	--	--
PIONEER 3737	19.7	21	21	131.9	149	133	12.8	8	6
PRO-SEED PS2094	19.7	--	--	116.6	--	--	3.5	--	--
*GLENN-GARNO 900X	19.7	--	--	151.5	--	--	2.9	--	--
NORTHROP KING PX9353	19.8	21	21	142.7	156	148	3.4	3	2
ASGROW/O'S GOLD RX480	19.8	21	21	131.2	152	141	6.5	5	4
ANDERSONS PSX99	19.8	--	--	129.7	--	--	3.8	--	--
SUPER CROST 2196	19.9	--	--	109.3	--	--	4.9	--	--
*SELECT 2772	19.9	--	--	149.5	--	--	2.1	--	--

(continued below)

TABLE 13 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Saginaw County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
*GLENN-GARNO 1007	22.4	--	--	153.6	--	--	4.1	--	--
AGRI PRO 680	22.5	24	--	144.0	146	--	0.0	2	--
GARNO S-100X	22.6	--	--	147.9	--	--	1.4	--	--
*SELECT 3720	22.6	23	23	158.2	162	149	6.3	4	2
GRIES GSFX622A	22.7	--	--	145.7	--	--	7.3	--	--
AMERICAN 6565	22.7	--	--	125.6	--	--	4.1	--	--
ANDERSONS PSX107	22.7	24	--	138.5	161	--	4.5	3	--
RENK RK76	22.8	24	25	139.1	168	148	6.8	5	3
CALLAHAN 19101X	22.8	--	--	136.1	--	--	2.2	--	--
*SUPER CROST 2989	23.0	23	24	153.7	178	155	1.4	2	1
*PICKSEED 8898	23.1	--	--	153.3	--	--	2.0	--	--
PRO-SEED PS2100	23.2	--	--	111.0	--	--	6.3	--	--
TERRA TR3200	23.6	--	--	125.1	--	--	5.8	--	--
*RENK RK68	23.7	24	--	159.1	169	--	2.2	2	--
AMERICAN 5050	23.8	--	--	113.6	--	--	2.8	--	--
RENK RK60	23.8	23	24	132.5	140	130	3.5	3	2
ANDERSONS PSX100	24.3	24	--	138.5	161	--	4.7	3	--
AVERAGE	20.5	22	22	135.4	152	139	4.3	3	3
RANGE	17.6	19	20	100.1	124	114	0.0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	24.3	24	25	159.1	178	158	13.2	8	6
LEAST SIGNIFICANT DIFFERENCE	1.4	0.9	0.9	13.6	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 5	May 1	May 3
HARVESTED	October 22	November 5	November 6
SOIL TYPE	Parkhill Loam	Parkhill Loam	Parkhill Loam
PREVIOUS CROP	Sugar Beets	Sugar Beets	Sugar Beets
POPULATION	22,100	21,600	21,800
ROWS	30"	30"	30"
FERTILIZER	250-49-84 + Zinc, Sulfur, & Manganese	287-56-56	214-66-162
SOIL TEST: pH	6.8	7.5	7.4
P	141 (very high)	185 (very high)	111 (very high)
K	339 (very high)	329 (very high)	551 (very high)

FARM COOPERATOR: Reinhold Farms, Reese

COUNTY AGRICULTURAL AGENT: Steve Poindexter, Saginaw

TABLE 14

NORTH CENTRAL MICHIGAN  
Huron County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
PIONEER 3779	19.0	21	21	53.6	82	105	8.0	4	3
*COUNTRYMARK C343X	19.0	--	--	87.5	--	--	0.0	--	--
PRIDE 1194	19.1	21	--	55.0	88	--	4.2	3	--
*DAIRYLAND DX1095	19.1	--	--	97.2	--	--	0.0	--	--
*GREAT LAKES GL-420	19.5	--	--	96.5	--	--	1.6	--	--
DAIRYLAND DX1097	19.5	21	21	61.9	90	106	0.0	1	2
*KING K416	19.7	22	22	81.6	105	116	3.1	3	2
BETAGOLD KRISTINE	19.7	--	--	51.5	--	--	4.2	--	--
CARGILL 3537	19.8	--	--	70.6	--	--	4.5	--	--
BETAGOLD INGRID	19.9	--	--	70.0	--	--	3.6	--	--
GARST 8808	20.0	--	--	66.5	--	--	5.3	--	--
TERRA TR162E	20.0	--	--	69.7	--	--	1.0	--	--
*WOLVERINE W156	20.1	21	--	84.6	107	--	0.0	1	--
*TERRA TR975	20.1	--	--	90.8	--	--	0.8	--	--
CARGILL 3477	20.2	--	--	67.4	--	--	2.5	--	--
*GLENN-GARNO 888S	20.2	21	--	87.3	104	--	0.0	1	--
DEKALB-PFIZER DK435	20.4	--	--	68.9	--	--	0.0	--	--
PIONEER 3790	20.4	21	--	52.2	80	--	7.0	5	--
DAIRYLAND DX1006	20.4	22	23	59.7	81	110	2.3	4	3
RENK R138	20.4	--	--	40.9	--	--	4.3	--	--
ANDERSONS PSX99	20.4	22	--	69.6	96	--	10.8	7	--
GLENN-GARNO 944	20.4	22	--	74.5	103	--	1.6	3	--
TERRA TR32	20.5	--	--	56.9	--	--	4.5	--	--
PRIDE 2244	20.6	22	--	60.2	84	--	7.5	5	--
SUPER CROST 2196	20.7	--	--	68.7	--	--	1.7	--	--
JACQUES 7700	20.7	--	--	62.3	--	--	0.0	--	--
PIONEER 3901	20.7	22	21	54.7	90	114	4.3	4	3
KING K2204	20.7	22	22	56.8	79	97	0.8	1	1
GOLDEN HARVEST H-2343	20.7	--	--	73.9	--	--	6.4	--	--
STAUFFER SEEDS S3303	20.8	22	21	74.9	100	115	12.1	9	6
DEKALB DK464	20.8	--	--	63.6	--	--	5.4	--	--
*JACQUES 4900	20.8	--	--	83.1	--	--	0.0	--	--
NORTHROP KING PX9292	20.8	--	--	57.8	--	--	1.6	--	--
NORTHROP KING PX39	20.8	--	--	53.3	--	--	5.4	--	--
PIONEER 3737	20.8	22	22	58.1	93	119	17.3	10	7
*DAIRYLAND DX1103	20.8	23	--	89.3	105	--	0.8	2	--
*GLENN-GARNO 1003	20.8	--	--	82.4	--	--	0.0	--	--
GLENN-GARNO 1005	20.8	--	--	76.7	--	--	0.0	--	--
*PIONEER 3475	20.9	22	--	88.8	109	--	3.3	2	--
RENK RK21	20.9	--	--	48.3	--	--	1.7	--	--
*GREAT LAKES GL-582	21.0	--	--	86.3	--	--	3.4	--	--
TERRA TR29	21.0	--	--	64.5	--	--	2.0	--	--
*GOLDEN HARVEST H-2344	21.0	22	22	93.6	115	133	0.0	1	0
GLENN-GARNO 900	21.0	--	--	54.5	--	--	1.9	--	--
SUPER CROST EXP.87105	21.2	--	--	62.0	--	--	0.0	--	--
WOLVERINE W163	21.2	23	--	75.1	99	--	0.0	3	--
GLENN-GARNO 900X	21.2	--	--	51.1	--	--	0.0	--	--
NORTHROP KING X4325	21.3	--	--	49.8	--	--	0.0	--	--
*PIONEER 3744	21.3	22	23	78.1	104	123	1.7	2	2
PRIDE X945	21.3	22	--	64.0	87	--	2.0	4	--

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GLENN-GARNO 944	19.9	22	--	145.4	153	--	2.1	4	--
CALLAHAN 19925X	19.9	--	--	106.0	--	--	4.8	--	--
KING K4422	20.0	--	--	148.2	--	--	5.2	--	--
*PIONEER 3744	20.1	21	21	150.5	164	150	6.8	5	4
PRIDE 4422	20.1	21	22	119.7	140	135	3.4	3	2
VORIS V2365	20.2	--	--	137.5	--	--	2.8	--	--
PICKSEED 5575	20.2	21	21	134.9	138	130	4.3	3	2
CARGILL 130411	20.4	--	--	137.8	--	--	4.7	--	--
STAUFFER SEEDS S4454WX	20.5	21	22	128.3	140	125	8.9	5	4
DEKALB-PFIZER DK484	20.5	21	22	137.4	164	148	4.9	4	2
RENK RK27	20.5	--	--	120.3	--	--	4.9	--	--
GLENN-GARNO 988	20.5	22	--	120.7	149	--	2.8	1	--
WOLVERINE W168	20.6	--	--	138.3	--	--	2.2	--	--
TERRA TR3100	20.6	--	--	108.4	--	--	9.1	--	--
ASGROW/O'S GOLD RX498	20.7	--	--	125.5	--	--	2.2	--	--
PAYCO SX611	20.7	21	--	147.6	159	--	3.6	3	--
CALLAHAN C747	20.7	22	22	144.1	160	148	4.9	4	2
RENK RK25	20.8	22	22	133.1	133	124	4.2	4	3
RENK R138	20.8	--	--	142.9	--	--	0.7	--	--
GLENN-GARNO 1005	20.8	--	--	144.7	--	--	2.7	--	--
CARGILL 859	20.9	22	22	124.5	151	144	6.3	4	2
*STAUFFER SEEDS S5340	21.0	22	22	158.4	169	149	4.1	2	1
DEKALB-PFIZER DK524	21.0	22	22	138.7	160	144	4.8	4	2
COUNTRYMARK C565X	21.0	--	--	132.1	--	--	3.8	--	--
*PAYCO SX872	21.0	22	--	157.6	172	--	4.2	2	--
GREAT LAKES GL-487	21.1	21	21	146.4	157	142	4.8	5	4
SELECT 3100	21.1	22	22	148.3	155	144	7.1	4	3
DAIRYLAND DX1103	21.2	22	--	135.8	150	--	1.4	3	--
DAIRYLAND DX1108	21.3	22	--	113.8	149	--	0.7	3	--
*GREAT LAKES GL-482	21.4	--	--	153.8	--	--	2.9	--	--
GREAT LAKES GL-509	21.4	--	--	140.7	--	--	4.9	--	--
*CARGILL 5157	21.4	--	--	158.0	--	--	7.0	--	--
KING K5574	21.5	22	23	142.5	167	149	2.0	2	2
ASGROW/O'S GOLD RX626	21.6	--	--	146.3	--	--	5.0	--	--
TERRA TR1040	21.6	--	--	146.0	--	--	7.7	--	--
TERRA TR3102	21.6	--	--	121.2	--	--	3.4	--	--
*NORTHROP KING PX9385	21.7	22	--	149.6	164	--	1.5	1	--
RUPP XR1527	21.7	--	--	142.4	--	--	1.4	--	--
GLENN-GARNO 1003	21.7	--	--	137.9	--	--	4.4	--	--
*JACQUES 7700	21.8	--	--	150.7	--	--	0.0	--	--
RENK RK64	21.8	23	23	142.5	153	140	4.9	5	3
GOLDEN HARVEST EX615	21.8	--	--	142.5	--	--	4.3	--	--
*PIONEER 3475	21.9	22	--	151.7	167	--	2.1	2	--
DAIRYLAND DX1107	21.9	23	24	143.9	151	140	4.2	2	2
GRIES GSFX580	22.0	--	--	137.9	--	--	2.7	--	--
AGRIPRO AP391	22.0	23	23	138.4	160	144	2.1	2	1
*PRIDE 5547	22.1	--	--	154.7	--	--	2.7	--	--
*GOLDEN HARVEST H-2465	22.1	--	--	149.7	--	--	4.1	--	--
*GREAT LAKES GL-579	22.2	23	23	153.1	174	158	1.4	1	1
*ASGROW/O'S GOLD RX578	22.3	--	--	153.0	--	--	1.4	--	--
*PRO-SEED PS2104	22.3	--	--	155.0	--	--	3.4	--	--
*TERRA TR1060	22.3	--	--	157.2	--	--	1.4	--	--
RENK R148	22.3	23	23	118.6	128	125	2.2	3	2
*DEKALB-PFIZER DK547	22.4	--	--	153.0	--	--	0.7	--	--
ASGROW/O'S GOLD 6880	22.4	23	24	121.2	150	140	8.7	6	4

TABLE 14 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Huron County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
TERRA TR3100	21.3	--	--	75.7	--	--	2.3	--	--
*PICKSEED 5575	21.3	22	23	78.6	93	111	1.9	2	2
GLENN-GARNO 988	21.3	23	--	74.2	98	--	0.0	3	--
STAUFFER SEEDS S4590	21.4	--	--	74.6	--	--	0.0	--	--
TERRA TR151E	21.4	--	--	65.8	--	--	2.7	--	--
RENK RK68	21.4	23	--	50.7	98	--	11.4	8	--
STAUFFER SEEDS S4402	21.5	--	--	53.0	--	--	4.2	--	--
GREAT LAKES GL-584	21.5	--	--	77.0	--	--	0.0	--	--
KING K4422	21.5	--	--	55.7	--	--	1.9	--	--
RENK RK7A	21.5	--	--	60.8	--	--	0.0	--	--
*ANDERSONS PSX103	21.5	23	--	77.7	99	--	0.0	0	--
*GLENN-GARNO 1007	21.5	--	--	84.5	--	--	0.7	--	--
ASGROW/O'S GOLD RX498	21.6	--	--	57.8	--	--	3.2	--	--
GREAT LAKES GL-482	21.7	--	--	76.0	--	--	2.5	--	--
*GREAT LAKES GL-579	21.8	23	24	93.5	108	123	0.0	1	1
BETAGOLD ERIKA	21.8	--	--	45.1	--	--	5.4	--	--
RENK RK25	21.8	22	23	45.3	90	113	4.2	3	3
*DEKALB-PFIZER DK524	21.9	23	23	86.8	113	132	1.1	1	2
TERRA TR1040	21.9	--	--	54.2	--	--	3.3	--	--
*CARGILL 859	21.9	22	23	79.2	100	118	0.8	2	2
RENK RK27	21.9	--	--	48.0	--	--	1.2	--	--
GRIES GSF580	22.0	--	--	49.6	--	--	0.0	--	--
GREAT LAKES GL-487	22.0	22	22	69.7	98	119	0.0	0	0
KING K4464	22.0	24	--	44.7	87	--	1.7	2	--
GARST 8882	22.0	--	--	47.3	--	--	0.0	--	--
GREAT LAKES GL-509	22.3	--	--	67.9	--	--	0.0	--	--
ASGROW/O'S GOLD 2330	22.3	23	23	58.7	94	119	0.0	3	2
GREAT LAKES 87682	22.4	--	--	69.4	--	--	5.4	--	--
PRIDE 4422	22.4	23	23	76.9	98	116	7.3	5	3
*COUNTRYMARK C565X	22.4	--	--	83.7	--	--	0.0	--	--
RENK RK64	22.4	23	25	66.4	97	115	0.8	1	1
GREAT LAKES 86601	22.5	--	--	69.4	--	--	1.7	--	--
TERRA TR1060	22.5	--	--	51.4	--	--	0.0	--	--
NORTHROP KING PX9385	22.6	--	--	67.0	--	--	1.5	--	--
CARGILL 2787	22.6	--	--	41.8	--	--	0.0	--	--
CARGILL 130411	22.7	--	--	63.0	--	--	2.7	--	--
RENK RK60	22.7	24	25	57.7	85	111	3.6	2	2
*CARGILL 3987	22.8	--	--	87.1	--	--	0.8	--	--
GOLDEN HARVEST H-2492	22.8	--	--	57.9	--	--	4.3	--	--
DAIRYLAND DX1107	22.9	23	25	76.0	100	118	0.0	1	1
TERRA TR3102	23.0	--	--	67.7	--	--	0.8	--	--
TERRA TR3200	23.0	--	--	51.1	--	--	6.9	--	--
DAIRYLAND DX1108	23.0	23	--	61.4	91	--	0.0	2	--
RENK R148	23.2	24	24	62.2	89	115	4.0	3	2
*SUPER CROST 2989	23.3	--	--	79.2	--	--	5.5	--	--
*STAUFFER SEEDS S5340	23.4	24	25	78.1	111	117	1.9	2	2
*GREAT LAKES 5922	23.8	25	25	84.7	117	132	0.0	0	0
GRIES GSF622A	24.0	--	--	51.8	--	--	4.7	--	--
GOLDEN HARVEST H-2572	24.0	25	26	67.5	91	113	3.4	3	2
GREAT LAKES 87656	24.2	--	--	57.0	--	--	1.7	--	--

(continued below)

TABLE 15

NORTH CENTRAL MICHIGAN  
Huron County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1987	2	3	1987	2	3	1987	2	3
WOLVERINE W156	47.1	54.2	--	12.1	10.9	--	5.7	5.8	--
BETAGOLD INGRID	47.1	--	--	11.8	--	--	5.6	--	--
DAIRYLAND DX1095	46.0	--	--	12.7	--	--	5.9	--	--
COUNTRYMARK C343X	45.2	--	--	12.5	--	--	5.7	--	--
DAIRYLAND DX1097	45.1	50.2	50.0	13.7	10.5	11.7	6.2	5.1	5.7
JACQUES 4900	44.8	--	--	12.7	--	--	5.7	--	--
KING K2204	44.2	53.5	53.1	11.1	9.4	10.2	4.9	4.8	5.3
PRIDE 1194	44.0	51.0	--	7.5	7.7	--	3.3	3.9	--
STAUFFER SEEDS S3303	43.9	55.6	54.5	10.0	9.1	10.5	4.4	5.0	5.6
GARST 8882	43.4	--	--	13.2	--	--	5.7	--	--
KING K416	43.3	48.7	46.3	8.9	9.1	11.2	3.9	4.5	5.1
CARGILL 2787	43.3	--	--	8.9	--	--	3.9	--	--
NORTHROP KING PX9292	43.2	--	--	9.2	--	--	4.0	--	--
CARGILL 3477	43.2	--	--	10.4	--	--	4.5	--	--
CARGILL 130411	43.2	--	--	14.6	--	--	6.3	--	--
BETAGOLD ERIKA	43.0	--	--	11.5	--	--	5.0	--	--
GLENN-GARNO 888S	43.0	50.3	--	14.1	12.1	--	6.1	6.0	--
RENK RK21	42.5	--	--	9.4	--	--	4.0	--	--
BETAGOLD KRISTINE	42.4	--	--	10.1	--	--	4.3	--	--
GLENN-GARNO 900X	42.4	--	--	15.5	--	--	6.6	--	--
DEKALB-PFIZER DK435	42.3	--	--	12.2	--	--	5.2	--	--
GLENN-GARNO 944	42.2	47.9	--	13.2	12.5	--	5.6	6.0	--
GLENN-GARNO 988	42.2	49.8	--	13.0	11.7	--	5.5	5.7	--
PIONEER 3779	42.0	50.5	46.4	9.0	8.7	12.1	3.8	4.4	5.3
PIONEER 3790	42.0	51.8	--	12.6	10.1	--	5.3	5.0	--
ANDERSONS PSX99	42.0	46.5	--	11.7	10.2	--	5.0	4.7	--
TERRA TR975	41.6	--	--	13.9	--	--	5.8	--	--
GREAT LAKES GL-420	41.5	--	--	13.3	--	--	5.5	--	--
GREAT LAKES GL-482	41.5	--	--	14.2	--	--	5.9	--	--
DEKALB-PFIZER DK464	41.4	--	--	14.4	--	--	6.0	--	--
PRIDE 4422	41.4	46.8	45.2	14.6	12.0	14.2	6.0	5.5	6.2
RENK RK27	41.3	--	--	10.1	--	--	4.2	--	--
PRIDE 2244	41.0	50.4	--	8.8	9.4	--	3.6	4.8	--
GLENN-GARNO 900	40.9	--	--	9.7	--	--	3.9	--	--
CARGILL 3537	40.7	--	--	8.9	--	--	3.6	--	--
RENK RK7A	40.4	--	--	9.2	--	--	3.7	--	--
PIONEER 3901	40.3	49.5	48.9	15.4	12.1	13.3	6.2	5.7	6.3
TERRA TR162E	40.3	--	--	9.9	--	--	4.0	--	--
SUPER CROST EXP.87105	40.1	--	--	12.0	--	--	4.8	--	--
GREAT LAKES GL-487	40.1	48.0	45.9	13.0	11.5	13.6	5.2	5.4	6.1
SUPER CROST 2196	39.9	--	--	12.5	--	--	5.0	--	--
TERRA TR3100	39.9	--	--	12.7	--	--	5.1	--	--
GREAT LAKES 86601	39.8	--	--	14.8	--	--	6.0	--	--
STAUFFER SEEDS S4590	39.6	--	--	10.6	--	--	4.2	--	--
PIONEER 3737	39.6	47.7	45.7	13.1	11.5	13.9	5.2	5.4	6.2
TERRA TR151E	39.6	--	--	12.2	--	--	4.8	--	--
TERRA TR3102	39.6	--	--	13.5	--	--	5.4	--	--
GRIES GSF580	39.4	--	--	13.7	--	--	5.4	--	--
NORTHROP KING PX9385	39.3	--	--	9.8	--	--	3.9	--	--
GLENN-GARNO 1007	39.0	--	--	15.2	--	--	5.9	--	--

(continued below)



GREAT LAKES GL-599	24.3	25	26	66.5	98	115	3.5	2	1
RENK RK76	24.8	26	26	61.4	94	113	2.5	1	1
<b>AVERAGE</b>	<b>21.5</b>	<b>23</b>	<b>23</b>	<b>67.5</b>	<b>96</b>	<b>116</b>	<b>2.5</b>	<b>3</b>	<b>2</b>
<b>RANGE</b>	<b>19.0</b>	<b>21</b>	<b>21</b>	<b>40.9</b>	<b>79</b>	<b>97</b>	<b>0.0</b>	<b>0</b>	<b>0</b>
	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>
	24.8	26	26	97.2	117	133	17.3	10	7
<b>LEAST SIGNIFICANT DIFFERENCE</b>	<b>1.5</b>	<b>1.2</b>	<b>1.0</b>	<b>9.7</b>	<b>8</b>	<b>7</b>	<b>--</b>	<b>--</b>	<b>--</b>

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	<u>1987</u>	<u>1986</u>	<u>1985</u>
PLANTED	April 30	May 1	May 2
HARVESTED	October 29	November 6	October 29
SOIL TYPE	Kilmanagh Loam	Kilmanagh Loam	Kilmanagh Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	18,900	19,100	21,500
ROWS	30"	30"	30"
FERTILIZER	177-62-69+Zn	148-62-99	197-63-129
SOIL TEST: pH	6.8	7.7	7.6
P	140 (very high)	81 (high)	85 (high)
K	325 (very high)	160 (medium)	180 (medium)

FARM COOPERATOR: William McCrea, Bad Axe

COUNTY AGRICULTURAL AGENT: Jim LeCureux, Bad Axe

GLENN-GARNO 1003	39.0	--	--	16.7	--	--	6.5	--	--
RENK R148	38.5	43.5	40.7	10.8	10.4	14.7	4.1	4.5	5.5
RENK RK60	38.3	44.3	40.7	12.2	12.3	15.1	4.8	5.5	6.0
COUNTRYMARK C565x	38.1	--	--	16.0	--	--	6.1	--	--
SUPER CROST 2989	38.0	--	--	15.5	--	--	5.9	--	--
PRIDE X945	38.0	44.4	--	10.0	9.8	--	3.8	4.3	--
TERRA TR1060	37.9	--	--	13.4	--	--	5.1	--	--
RENK RK25	37.9	43.7	41.2	9.5	9.5	13.0	3.6	4.1	5.1
GOLDEN HARVEST H-2344	37.9	48.5	46.6	13.2	11.5	13.1	5.0	5.4	5.9
DEKALB-PFIZER DK524	37.8	44.8	42.0	15.1	13.8	16.1	5.7	6.1	6.5
WOLVERINE W163	37.8	44.9	--	15.9	13.2	--	6.0	5.7	--
TERRA TR29	37.8	--	--	12.5	--	--	4.6	--	--
TERRA TR1040	37.8	--	--	14.1	--	--	5.3	--	--
PICKSEED 5575	37.8	44.2	43.3	14.1	11.6	13.4	5.3	4.9	5.6
KING K4422	37.7	--	--	13.7	--	--	5.2	--	--
KING K4464	37.7	44.1	--	10.6	11.1	--	4.0	4.9	--
ASGROW/O'S GOLD 2330	37.7	47.5	45.7	11.3	9.9	12.7	4.3	4.5	5.6
PIONEER 3744	37.6	44.8	42.7	12.2	10.9	13.9	4.6	4.8	5.7
CARGILL 859	37.6	45.8	44.3	10.1	9.6	12.7	3.8	4.3	5.4
TERRA TR3200	37.5	--	--	11.5	--	--	4.3	--	--
NORTHRUP KING X4325	37.4	--	--	15.5	--	--	5.8	--	--
GREAT LAKES GL-509	37.3	--	--	10.6	--	--	4.0	--	--
NORTHRUP KING PX39	37.3	--	--	9.8	--	--	3.7	--	--
PIONEER 3475	37.3	44.2	--	15.5	13.5	--	5.8	5.8	--
TERRA TR32	37.3	--	--	11.0	--	--	4.1	--	--
DAIRYLAND DX1103	37.3	45.1	--	15.8	13.0	--	5.9	5.6	--
GOLDEN HARVEST H-2343	37.3	--	--	12.1	--	--	4.6	--	--
GARST 8808	37.2	--	--	13.0	--	--	4.9	--	--
STAUFFER SEEDS S4402	37.1	--	--	10.5	--	--	3.9	--	--
GREAT LAKES GL-579	37.0	44.4	41.4	18.1	15.3	17.2	6.8	6.6	6.9
CARGILL 3987	36.7	--	--	10.9	--	--	4.0	--	--
DAIRYLAND DX1107	36.7	44.3	41.5	17.2	14.5	16.5	6.3	6.2	6.6
RENK R138	36.7	--	--	12.5	--	--	4.6	--	--
ANDERSONS PSX103	36.7	43.0	--	10.1	11.3	--	3.7	4.9	--
GREAT LAKES 87682	36.4	--	--	16.7	--	--	6.1	--	--
DAIRYLAND DX1006	36.2	44.6	42.9	11.3	11.5	13.7	4.1	5.1	5.8
ASGROW/O'S GOLD RX498	36.1	--	--	10.8	--	--	3.9	--	--
GOLDEN HARVEST H-2492	36.0	--	--	13.2	--	--	4.8	--	--
JACQUES 7700	35.8	--	--	12.8	--	--	4.5	--	--
GREAT LAKES GL-584	35.8	--	--	16.2	--	--	5.8	--	--
STAUFFER SEEDS S5340	35.7	43.9	40.6	13.0	12.5	16.1	4.6	5.4	6.3
GLENN-GARNO 1005	35.7	--	--	10.7	--	--	3.9	--	--
GREAT LAKES 5922	35.7	42.1	39.4	17.9	15.7	18.0	6.4	6.5	6.9
GREAT LAKES 87656	35.6	--	--	11.1	--	--	4.0	--	--
GREAT LAKES GL-582	35.0	--	--	16.5	--	--	5.8	--	--
RENK RK68	34.0	41.5	--	13.2	11.5	--	4.5	4.6	--
DAIRYLAND DX1108	33.7	42.4	--	13.2	11.5	--	4.6	4.8	--
RENK RK64	33.3	43.0	39.7	10.4	10.7	14.1	3.5	4.7	5.5
GRIES GSF622A	32.2	--	--	9.7	--	--	3.2	--	--
GREAT LAKES GL-599	30.5	--	--	13.1	--	--	4.0	--	--
GOLDEN HARVEST H-2572	30.0	38.4	36.7	16.0	15.6	18.6	4.8	6.0	6.7
RENK RK76	29.5	36.7	34.6	12.5	13.8	17.7	3.7	5.0	5.9

(continued next page)

TABLE 15 (CONTINUED)

NORTH CENTRAL MICHIGAN ZONE 3  
Huron County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1987	2	3	1987	2	3	1987	2	3
AVERAGE	39.3	46.3	43.8	12.5	11.5	14.1	4.9	5.2	5.9
RANGE	29.5	36.7	34.6	7.5	7.7	10.2	3.2	3.9	5.1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	47.1	55.6	54.5	18.1	15.7	18.6	6.8	6.6	6.9
LEAST SIGNIFICANT DIFFERENCE	3.2	2.5	2.0	1.8	1.5	1.2	0.7	0.6	0.5

	1987	1986	1985
PLANTED	April 30	May 1	May 2
HARVESTED	September 9	October 10	September 19
SOIL TYPE	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
PREVIOUS CROP	corn	corn	corn
POPULATION	18,900	20,000	21,900
ROWS	30"	30"	30"
FERTILIZER	177-62-69+Zn	148-62-99	197-63-129
SOIL TEST: pH	6.8	7.7	7.6
P	140 (very high)	81 (high)	85 (high)
K	325 (very high)	160 (medium)	180 (medium)

FARM COOPERATOR: William McCrea, Bad Axe

COUNTY AGRICULTURAL AGENT: Jim LeCureaux, Bad Axe

TABLE 16

NORTH CENTRAL MICHIGAN ZONE 3  
Isabella County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
WOLVERINE W189	17.5	--	--	116.3	--	--	5.2	--	--
STAUFFER SEEDS S2206	17.6	--	--	106.6	--	--	5.9	--	--
KING K2203	17.9	--	--	134.1	--	--	2.2	--	--
PRIDE 1194	18.1	19	--	133.3	129	--	5.9	6	--
BETAGOLD ERIKA	18.1	--	--	110.9	--	--	2.4	--	--
CARGILL 809	18.1	20	20	118.0	120	104	6.3	5	5
DAIRYLAND DX1089	18.1	20	--	119.6	117	--	4.7	7	--
*DEKALB-PFIZER DK415	18.2	20	--	148.9	134	--	1.4	2	--
*GREAT LAKES GL-420	18.2	--	--	150.0	--	--	0.7	--	--
PIONEER 3779	18.3	20	21	143.9	138	135	5.3	4	3
*GARST 8808	18.3	--	--	149.8	--	--	3.6	--	--
CARGILL 2787	18.3	--	--	122.5	--	--	5.1	--	--
WOLVERINE W130	18.4	20	21	137.6	122	113	3.1	4	3
BETAGOLD INGRID	18.4	20	--	146.2	144	--	3.7	4	--
ANDERSONS PSX85	18.4	19	--	134.6	126	--	4.5	3	--
GOLDEN HARVEST H-2250	18.4	--	--	131.9	--	--	3.7	--	--
*PIONEER 3790	18.5	--	--	147.8	--	--	3.1	--	--
*PRIDE X945	18.5	21	--	148.3	138	--	3.7	3	--
*ASGROW/O'S GOLD RX406	18.5	--	--	150.8	--	--	3.7	--	--
*TERRA TR151E	18.5	--	--	155.4	--	--	4.4	--	--
ANDERSONS PSX93	18.5	20	21	138.6	131	116	3.6	3	2
CARGILL SX123	18.6	20	--	127.0	120	--	11.6	8	--
PIONEER 3901	18.6	21	22	142.3	142	131	5.8	4	4
CARGILL 819	18.6	21	--	124.8	126	--	5.1	4	--
GLENN-GARNO 900	18.6	--	--	131.3	--	--	3.7	--	--
GLENN-GARNO 888S	18.6	20	--	136.2	129	--	1.4	1	--
PIONEER 3737	18.7	21	--	144.8	142	--	6.3	4	--
TERRA TR29	18.7	--	--	131.1	--	--	6.7	--	--
KING K416	18.8	21	--	136.9	140	--	4.3	3	--
*DAIRYLAND DX1095	18.8	--	--	148.5	--	--	3.8	--	--
GOLDEN HARVEST H-2343	18.8	--	--	127.1	--	--	1.5	--	--
*WOLVERINE W156	18.9	21	--	153.5	151	--	5.1	4	--
NORTHROP KING PX9292	18.9	--	--	123.9	--	--	0.7	--	--
*KING K4422	18.9	--	--	151.8	--	--	4.4	--	--
DEKALB-PFIZER DK484	19.0	--	--	131.9	--	--	3.7	--	--
*WOLVERINE W163	19.0	22	--	151.5	149	--	1.4	2	--
TERRA TR162E	19.0	--	--	137.7	--	--	3.6	--	--
RUPP XR1492	19.0	--	--	145.2	--	--	3.6	--	--
JACQUES 4900	19.1	--	--	142.1	--	--	3.7	--	--
KING 2204	19.1	21	21	139.1	133	121	6.0	4	3
*PAYCO SX686	19.1	--	--	152.6	--	--	4.0	--	--
GOLDEN-HARVEST H-2344	19.1	--	--	131.9	--	--	4.3	--	--
*GLENN-GARNO 900X	19.1	--	--	157.5	--	--	2.3	--	--
CARGILL 3537	19.2	--	--	135.8	--	--	3.7	--	--
PICKSEED 5575	19.2	21	22	122.6	129	127	3.0	3	3
CALLAHAN C738	19.2	--	--	123.1	--	--	5.0	--	--
*GREAT LAKES GL-482	19.3	--	--	163.7	--	--	2.3	--	--
PRIDE 2244	19.3	21	--	110.1	114	--	4.4	2	--
GARST 8882	19.3	--	--	140.7	--	--	3.8	--	--
STAUFFER SEEDS S3306	19.4	21	22	132.3	142	133	2.9	3	2

(continued below)

SUPER CROST EXP.87105	19.4	--	--	136.6	--	--	0.7	--	--
*PIONEER 3744	19.4	22	23	151.3	148	140	3.6	2	1
DAIRYLAND DX1102	19.4	22	23	113.1	111	113	0.7	4	3
CALLAHAN C728	19.4	--	--	123.2	--	--	1.7	--	--
ASGROW/O'S GOLD RX498	19.5	--	--	138.8	--	--	5.7	--	--
*CARGILL 3987	19.5	--	--	160.2	--	--	5.6	--	--
*DEKALB-PFIZER DK524	19.6	22	23	148.4	150	141	1.4	1	1
RUPP XR1555	19.6	22	--	130.1	134	--	2.5	2	--
GLENN-GARNO 988	19.6	23	--	122.4	136	--	5.5	3	--
DAIRYLAND DX1097	19.7	21	22	135.0	138	128	6.3	4	4
CALLAHAN 19102X	19.7	--	--	128.2	--	--	2.9	--	--
*TERRA TR32	19.8	--	--	148.7	--	--	2.2	--	--
SUPER CROST 2196	19.9	--	--	121.9	--	--	4.6	--	--
TERRA TR3100	20.0	--	--	112.5	--	--	5.3	--	--
CARGILL 859	20.0	22	--	141.7	144	--	6.0	3	--
TERRA TR975	20.1	--	--	132.0	--	--	2.2	--	--
GLENN-GARNO 1005	20.1	--	--	126.4	--	--	2.2	--	--
STAUFFER SEEDS S4474	20.3	--	--	143.2	--	--	5.9	--	--
NORTHROP KING PX9385	20.3	--	--	138.2	--	--	3.7	--	--
KING K4464	20.3	23	--	135.9	144	--	2.9	2	--
GRIES GSFX580	20.6	--	--	138.9	--	--	3.7	--	--
*DAIRYLAND DX1103	20.6	22	--	150.0	151	--	3.6	3	--
*RUPP XR1627	20.7	--	--	148.4	--	--	3.0	--	--
GREAT LAKES GL-509	20.8	--	--	140.8	--	--	1.6	--	--
*PICKSEED 8898	20.9	--	--	150.8	--	--	5.3	--	--
TERRA TR1040	21.1	--	--	136.1	--	--	8.5	--	--
TERRA TR1060	21.3	--	--	125.8	--	--	3.0	--	--
GRIES GSFX622A	21.4	--	--	125.8	--	--	0.7	--	--
TERRA TR3102	21.4	--	--	142.7	--	--	8.5	--	--
TERRA TR3200	21.4	--	--	114.9	--	--	4.5	--	--
JACQUES 5710	22.4	--	--	119.3	--	--	3.0	--	--
AVERAGE	19.3	21	22	135.8	135	125	3.8	3	3
RANGE	17.5	19	20	106.6	111	104	0.7	1	1
		TO	TO	TO	TO	TO	TO	TO	TO
	22.4	23	23	163.7	151	141	11.6	8	5
LEAST SIGNIFICANT DIFFERENCE	1.4	0.9	0.8	11.6	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 5	May 5	May 1
HARVESTED	November 23	November 3	October 29
SOIL TYPE	Ithaca Loam	Ithaca Loam	Ithaca Loam
PREVIOUS CROP	Soybeans	Navy Beans	Navy Beans
POPULATION	22,000	20,100	21,800
ROWS	30"	30"	30"
FERTILIZER	130-80-134+Zinc	136-81-135+Zinc	148-68-158
SOIL TEST: pH	7.1	6.7	6.8
P	80 (high)	94 (high)	98 (high)
K	325 (very high)	363 (very high)	384 (very high)

FARM COOPERATOR: Bill, Fred and Steve Zeien, Beal City

COUNTY EXTENSION DIRECTOR: Lyle Thompson, Mt. Pleasant

TABLE 17

NORTH CENTRAL MICHIGAN  
Montcalm County Trial - Irrigated vrs Not Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE					% STALK LODGING						
	1987	2 YR	3 YR	1987	2		3		1987	2		3			
					1987	NON	YR	NON		YR	NON	YR	NON		
					IRR	IRR	IRR	IRR		IRR	IRR	IRR	IRR		
KING K2203	18.2	--	--	140.1	62.8	--	--	--	10.9	0.0	--	--	--	--	
KING K2204	18.5	20	20	137.8	65.5	151	92	157	112	12.7	0.0	7	7	5	5
PIONEER 3790	18.7	20	--	136.5	56.0	152	89	--	--	5.7	0.0	4	2	--	--
DAIRYLAND DX1097	18.8	21	21	141.7	59.1	167	103	166	117	11.5	1.5	7	5	5	4
+PIONEER 3779	19.0	21	21	167.5	89.8	177	110	171	120	5.0	1.5	4	3	3	2
GLENN-GARNO 888S	19.0	20	--	173.4	85.2	180	111	--	--	6.7	1.5	4	5	--	--
COUNTRYMARK C343X	19.1	--	--	141.9	80.1	--	--	--	--	3.4	0.7	--	--	--	--
GARST 8882	19.1	--	--	144.5	77.5	--	--	--	--	7.6	0.7	--	--	--	--
DAIRYLAND DX1095	19.1	--	--	142.0	80.5	--	--	--	--	11.7	1.6	--	--	--	--
+GREAT LAKES GL-420	19.2	--	--	182.9	89.2	--	--	--	--	7.0	0.8	--	--	--	--
KING K416	19.3	21	--	169.4	81.3	174	104	--	--	8.2	1.4	5	3	--	--
KING K4422	19.3	--	--	140.7	74.3	--	--	--	--	8.5	0.7	--	--	--	--
GOLDEN HARVEST H-2343	19.3	--	--	170.6	69.6	--	--	--	--	7.2	0.7	--	--	--	--
STAUFFER SEEDS S4454WX	19.5	--	--	150.5	67.0	--	--	--	--	6.9	0.0	--	--	--	--
**GOLDEN HARVEST H-2344	19.5	--	--	196.1	96.5	--	--	--	--	6.2	0.7	--	--	--	--
GLENN-GARNO 900	19.6	--	--	180.9	76.6	--	--	--	--	5.6	0.7	--	--	--	--
KAINS K85	19.7	--	--	163.7	75.9	--	--	--	--	4.2	0.0	--	--	--	--
+PICKSEED 5575	19.8	21	22	179.2	89.2	191	124	184	134	4.8	0.0	3	4	2	3
GARST 8808	19.9	--	--	145.0	55.4	--	--	--	--	6.9	0.0	--	--	--	--
NORTHROP KING PX9292	20.0	--	--	166.9	83.3	--	--	--	--	2.7	0.7	--	--	--	--
**PIONEER 3737	20.1	22	22	190.1	92.3	202	127	188	134	9.6	0.7	6	3	5	2
PIONEER 3901	20.2	21	22	169.7	70.5	186	114	194	136	4.2	1.4	2	6	1	4
**CARGILL 859	20.2	22	23	188.4	98.4	205	132	207	149	5.0	1.4	3	3	2	2
**GLENN-GARNO 900X	20.2	--	--	192.0	95.1	--	--	--	--	4.9	0.7	--	--	--	--
* STAUFFER SEEDS S3306	20.3	22	22	186.7	86.3	199	123	196	137	6.8	1.4	4	6	3	4
SUPER CROST 2196	20.3	--	--	152.6	73.0	--	--	--	--	8.5	3.6	--	--	--	--
CARGILL 3477	20.3	--	--	168.3	66.4	--	--	--	--	5.0	0.7	--	--	--	--
**PIONEER 3744	20.4	22	23	188.1	91.7	201	127	198	142	6.6	0.7	5	1	3	1
ASGROW/D'S GOLD RX498	20.6	--	--	176.4	81.6	--	--	--	--	3.4	0.7	--	--	--	--
CARGILL 3987	20.6	--	--	157.5	66.7	--	--	--	--	6.5	2.2	--	--	--	--
SUPER CROST EXP.87105	20.8	--	--	181.8	72.5	--	--	--	--	6.4	0.0	--	--	--	--
JACQUES 4900	20.8	--	--	156.4	82.1	--	--	--	--	2.8	1.4	--	--	--	--
**WOLVERINE W163	20.8	22	--	189.1	95.5	193	121	--	--	2.8	0.0	3	2	--	--
CARGILL 3537	20.8	--	--	161.7	71.6	--	--	--	--	4.9	1.4	--	--	--	--
GREAT LAKES 87674	21.0	--	--	162.0	82.3	--	--	--	--	4.7	1.5	--	--	--	--
STAUFFER SEEDS S4474	21.1	--	--	156.9	66.5	--	--	--	--	7.0	2.2	--	--	--	--
**GLENN-GARNO 1005	21.1	--	--	196.3	95.2	--	--	--	--	4.8	0.7	--	--	--	--
NORTHROP KING PX9385	21.2	--	--	153.3	71.5	--	--	--	--	2.1	0.7	--	--	--	--
GLENN-GARNO 1003	21.2	--	--	172.8	78.4	--	--	--	--	3.5	0.0	--	--	--	--
**DEKALB-PFIZER DK524	21.3	23	--	188.1	96.0	197	132	--	--	1.4	0.0	1	3	--	--

**GREAT LAKES GL-509	21.3	--	--	208.9	98.2	--	--	--	--	8.2	0.0	--	--	--	--
KAINS K96	21.3	--	--	178.0	76.9	--	--	--	--	6.7	0.7	--	--	--	--
DEKALB-PFIZER DK484	21.4	23	23	151.6	55.5	177	106	189	132	6.3	0.7	4	4	3	3
JACQUES 5710	21.6	--	--	176.2	78.1	--	--	--	--	4.1	0.7	--	--	--	--
**GREAT LAKES GL-482	21.6	--	--	204.0	98.7	--	--	--	--	5.6	0.0	--	--	--	--
GOLDEN HARVEST EX615	21.7	--	--	177.6	69.5	--	--	--	--	5.5	0.7	--	--	--	--
CALLAHAN C747	22.1	--	--	166.2	66.0	--	--	--	--	6.8	2.0	--	--	--	--
GRIES GSF622A	22.2	--	--	180.1	70.6	--	--	--	--	9.7	0.0	--	--	--	--
GOLDEN HARVEST EX710	22.4	--	--	175.2	82.6	--	--	--	--	4.7	0.0	--	--	--	--
**GLENN-GARNO 1007	22.5	24	--	211.1	102.4	217	137	--	--	2.1	0.8	2	2	--	--
**ASGROW/O'S GOLD RX578	22.6	--	--	200.4	92.7	--	--	--	--	3.4	0.0	--	--	--	--
GLENN-GARNO 988	22.6	24	--	163.7	69.1	164	102	--	--	2.8	0.0	3	2	--	--
DAIRYLAND DX1103	22.7	24	--	176.2	76.3	178	105	--	--	2.8	0.0	2	3	--	--
CALLAHAN 19102X	22.9	--	--	174.7	74.0	--	--	--	--	3.4	0.0	--	--	--	--
**GRIES GSF580	23.1	--	--	197.7	93.2	--	--	--	--	3.4	0.7	--	--	--	--
**GOLDEN HARVEST H-2465	23.1	25	--	206.4	104.3	220	137	--	--	6.4	2.1	4	4	--	--
KAINS K92	23.2	--	--	177.7	75.0	--	--	--	--	3.4	0.0	--	--	--	--
DAIRYLAND DX1108	23.4	--	--	165.8	73.2	--	--	--	--	3.4	0.7	--	--	--	--
**DAIRYLAND DX1107	23.6	--	--	187.9	96.1	--	--	--	--	4.3	2.2	--	--	--	--
ASGROW/O'S GOLD RX626	23.8	--	--	154.2	64.2	--	--	--	--	2.8	0.0	--	--	--	--
PAYCO SX786	23.8	--	--	170.8	68.1	--	--	--	--	6.9	0.0	--	--	--	--
NORTHROP KING PX39	23.9	--	--	145.9	69.1	--	--	--	--	2.8	0.0	--	--	--	--
**COUNTRYMARK C565X	23.9	--	--	188.2	93.2	--	--	--	--	2.1	0.0	--	--	--	--
AVERAGE	20.9	22	22	170.8	79.2	186	115	185	131	5.5	0.7	4	4	3	3
RANGE	18.2	20	20	136.5	55.5	151	89	157	112	1.4	0.0	1	1	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	23.9	25	23	211.1	104.3	220	137	207	149	12.7	3.6	7	7	5	5
LEAST SIGNIFICANT DIFFERENCE	1.4	1.0	0.8	15.3	9.2	11	8	10	7	--	--	--	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD, IRRIGATED, IN 1987  
 +SIGNIFICANTLY BETTER THAN AVERAGE YIELD, NOT IRRIGATED IN 1987

	1987	1986	1985
PLANTED	May 2	April 30	May 1
HARVESTED	October 20-21	November 1,3	October 30-31
SOIL TYPE	Montcalm-McBride Sandy Loam	Montcalm-McBride Sandy Loam	Montcalm-McBride Sandy Loam
PREVIOUS CROP	Potatoes	Sorghum-sudan	Alfalfa
POPULATION	22,200	22,300	22,000
ROWS	30"	30"	30"
FERTILIZER	253-135-135	253-135-135	253-135-135
IRRIGATION	6.8 inches	5.25 inches	5.6 inches
SOIL TEST: pH	6.1	6.1	5.6
P	400 (very high)	576 (very high)	505 (very high)
K	193 (medium)	337 (very high)	184 (medium)

FARM COOPERATOR: Theron Comden, Montcalm Research Farm, Lakeview

COUNTY EXTENSION DIRECTOR: Don Smucker, Stanton

TABLE 18

NORTH CENTRAL MICHIGAN  
Oceana - Mason County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
DAIRYLAND DX1080	17.8	--	--	118.8	--	--	3.8	--	--
DAIRYLAND DX1083	17.9	--	--	142.1	--	--	2.8	--	--
GOLDEN HARVEST H-2250	18.2	--	--	167.5	--	--	6.9	--	--
GREAT LAKES GL-320	18.4	--	--	121.5	--	--	2.5	--	--
KING K2204	18.4	20	21	142.1	108	125	3.7	5	4
DAIRYLAND DX1087	18.4	--	--	137.9	--	--	8.3	--	--
*PIONEER 3779	18.6	20	21	177.6	144	153	3.5	5	3
ANDERSONS PSX85	18.7	--	--	146.8	--	--	4.1	--	--
DEKALB-PFIZER DK435	18.8	20	--	123.3	100	--	6.0	4	--
PIONEER 3901	18.8	20	21	158.9	135	142	2.2	2	2
KING K2203	18.9	--	--	151.0	--	--	2.2	--	--
DEKALB-PFIZER DK415	19.0	20	--	145.1	124	--	0.0	2	--
GLENN-GARNO 888S	19.0	20	--	165.4	129	--	5.6	4	--
GREAT LAKES GL-414	19.1	--	--	142.9	--	--	3.0	--	--
KING K416	19.1	21	--	149.4	122	--	5.0	3	--
*DEKALB-PFIZER DK464	19.2	--	--	175.5	--	--	2.3	--	--
*GREAT LAKES GL-420	19.2	--	--	178.9	--	--	2.1	--	--
PIONEER 3737	19.2	21	22	154.2	140	148	3.6	3	4
GLENN-GARNO 900	19.2	21	21	169.8	149	143	4.4	4	5
*DEKALB-PFIZER DK461	19.3	--	--	180.6	--	--	5.3	--	--
JACQUES 4700	19.3	--	--	130.6	--	--	4.9	--	--
GARST 8808	19.4	--	--	149.8	--	--	3.1	--	--
DAIRYLAND DX1095	19.4	--	--	160.8	--	--	1.5	--	--
GOLDEN HARVEST H-2344	19.4	21	22	130.9	129	139	2.9	3	2
*GOLDEN HARVEST H-2343	19.4	--	--	173.2	--	--	4.3	--	--
ANDERSONS PSX93	19.5	--	--	146.0	--	--	5.9	--	--
*PICKSEED 5575	19.5	21	--	180.7	135	--	0.0	4	--
*ASGROW/O'S GOLD RX406	19.6	--	--	173.9	--	--	4.5	--	--
NORTHRUP KING PX9283	19.7	--	--	153.7	--	--	2.9	--	--
GARST 8882	19.7	--	--	162.7	--	--	4.4	--	--
NORTHRUP KING PX9292	19.9	--	--	146.1	--	--	4.3	--	--
PIONEER 3790	19.9	22	--	152.1	130	--	0.0	1	--
KING K4422	19.9	--	--	145.9	--	--	1.5	--	--
CALLAHAN C728	19.9	--	--	161.1	--	--	2.6	--	--
*PAYCO SX686	20.3	--	--	179.2	--	--	2.1	--	--
*JACQUES 4900	20.4	--	--	180.3	--	--	2.9	--	--
ASGROW/O'S GOLD 2330	20.4	22	23	154.0	118	129	2.1	3	3
KING K4464	20.7	23	--	168.7	144	--	2.1	2	--
CALLAHAN 19102X	20.9	--	--	154.7	--	--	0.0	--	--
ASGROW/O'S GOLD RX498	21.0	--	--	161.3	--	--	0.7	--	--
*PIONEER 3744	21.1	22	23	172.8	147	147	0.0	1	1
*GLENN-GARNO 900X	21.1	--	--	173.8	--	--	6.7	--	--
*GRIES GSFX580	21.4	--	--	178.5	--	--	0.8	--	--
*PICKSEED 8898	22.0	--	--	178.1	--	--	0.8	--	--
GRIES GSFX622A	22.5	--	--	171.3	--	--	0.0	--	--
AVERAGE	19.6	21	22	157.9	130	141	3.1	3	3
RANGE	17.8	20	21	118.8	100	125	0.0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	22.5	23	23	180.7	149	153	8.3	5	5

(continued below)

TABLE 19 (CONTINUED)

NORTHERN MICHIGAN  
Grand Traverse County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2	3	1987	2	3	1987	2	3
		YR	YR		YR	YR		YR	
KING K2204	24.4	24	25	102.5	123	120	0.7	1	1
*BETAGOLD ERIKA	24.6	--	--	138.6	--	--	0.0	--	--
GLENN-GARNO 888E	24.7	24	--	105.7	118	--	0.0	3	--
PRIDE X945	24.9	24	--	122.4	134	--	2.1	1	--
*GREAT LAKES B2351	25.0	25	25	132.9	140	134	2.1	2	2
COUNTRYMARK C343X	25.0	--	--	124.0	--	--	1.4	--	--
PRIDE 2244	25.6	25	27	118.5	113	109	0.0	0	1
GLENN-GARNO 900	25.8	25	26	113.8	131	121	0.7	1	2
*KING K416	26.1	--	--	133.4	--	--	2.7	--	--
*GOLDEN HARVEST H-2343	26.5	--	--	134.7	--	--	3.7	--	--
JACQUES 4700	26.8	--	--	110.0	--	--	2.8	--	--
DAIRYLAND DX1089	28.3	--	--	124.4	--	--	2.3	--	--
GLENN-GARNO 900X	30.7	--	--	114.5	--	--	2.2	--	--
AVERAGE	23.8	24	25	113.9	123	116	2.1	2	2
RANGE	19.6	22	23	81.6	105	103	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	30.7	25	27	138.6	140	134	5.1	5	4
LEAST SIGNIFICANT DIFFERENCE	1.7	1.2	1.0	12.3	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 8	May 6	May 10
HARVESTED	October 28	November 4	November 6
SOIL TYPE	Coventry-Newaygo Loam	Coventry-Newaygo Loam	Coventry-Newaygo Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,900	21,400	21,300
ROWS	30"	30"	30"
FERTILIZER	132-38-38	123-45-75	136-45-90
SOIL TEST: pH	6.9	6.8	7.0
P	350 (very high)	334 (very high)	272 (very high)
K	257 (high)	503 (very high)	448 (very high)

FARM COOPERATOR: George Svec, Buckley

COUNTY AGRICULTURAL AGENT: Steve Fouch, Traverse City

TABLE 20

NORTHERN MICHIGAN  
Missaukee County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 4

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1987	2 YR	3 YR	1987	2 YR	3 YR	1987	2 YR	3 YR
PIONEER 3803	36.3	31.7	30.3	12.3	15.3	16.7	4.5	4.7	4.9
PIONEER 3949	35.0	31.2	30.7	11.4	14.6	15.1	4.0	4.4	4.5
KING K237	34.2	--	--	13.5	--	--	4.6	--	--
ANDERSONS PSX85	34.2	29.6	--	13.1	16.6	--	4.5	4.8	--
KING K1184	32.9	28.9	28.3	15.0	15.1	16.7	4.9	4.3	4.7
DAIRYLAND DX1084	32.6	--	--	11.6	--	--	3.8	--	--
PIONEER 3902	31.9	--	--	9.3	--	--	3.0	--	--
GOLDEN HARVEST H-2250	31.7	--	--	12.9	--	--	4.1	--	--
DEKALB-PFIZER DK397	31.3	--	--	12.4	--	--	3.8	--	--
DAIRYLAND DX1083	31.3	--	--	11.1	--	--	3.5	--	--
DAIRYLAND DX1087	31.2	29.0	29.2	13.6	16.2	17.2	4.3	4.6	5.0
PIONEER 3779	30.9	27.2	27.0	14.8	17.1	18.5	4.6	4.6	4.9
GLENN-GARNO 888S	30.6	--	--	13.6	--	--	4.2	--	--
DAIRYLAND DX1080	30.3	--	--	11.1	--	--	3.4	--	--
GLENN-GARNO 900X	30.0	--	--	11.4	--	--	3.4	--	--
DEKALB-PFIZER DK415	29.4	--	--	15.3	--	--	4.5	--	--
GLENN-GARNO 900	28.7	26.0	--	12.0	15.1	--	3.4	3.8	--
GOLDEN HARVEST H-2343	28.6	--	--	15.2	--	--	4.4	--	--
PICKSEED 2700	27.1	--	--	13.1	--	--	3.6	--	--
PIONEER 3901	27.0	24.4	24.6	20.7	21.5	21.0	5.6	5.2	5.1
ANDERSONS QSX90	27.0	24.5	--	15.7	17.5	--	4.2	4.2	--
KING K2204	26.8	24.0	24.6	19.8	21.4	21.4	5.3	5.1	5.2
AVERAGE	30.9	27.7	27.8	13.6	17.0	18.1	4.2	4.6	4.9
RANGE	26.8	24.0	24.6	9.3	14.6	15.1	3.0	3.8	4.5
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	36.3	31.7	30.7	20.7	21.5	21.4	5.6	5.2	5.2
LEAST SIGNIFICANT DIFFERENCE	2.7	2.1	1.7	2.1	1.6	1.5	0.6	0.6	0.5

	1987	1986	1985
PLANTED	May 8	May 9	May 10
HARVESTED	September 10	September 30	September 25
SOIL TYPE	Marlette sandy loam	Marlette sandy loam	Marlette sandy loam
PREVIOUS CROP	Corn	corn	corn
POPULATION	20,600	20,100	21,000
ROWS	28"	28"	28"
FERTILIZER	131-51-146	108-31-136	152-29-143
SOIL TEST: pH	6.5	5.8	6.4
P	98 (high)	91 (high)	95 (high)
K	122 (low)	497 (very high)	328 (very high)

FARM COOPERATOR: Doug Nielsen and George McGloughlin, Lake City  
Experiment Station, Michigan State University, Lake City

COUNTY EXTENSION DIRECTOR: Carl Stevens, Lake City

LEAST SIGNIFICANT DIFFERENCE 1.4 1.0 0.8 14.2 9 7 -- -- --

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

	1987	1986	1985
PLANTED	May 4	May 16	May 9
HARVESTED	October 20, 28	November 14	November 1
SOIL TYPE	Montcalm Loamy Sand & Russeau Fine Sand	Montcalm Loamy Sand & Russeau Fine Sand	Iosco Sandy Loam
PREVIOUS CROP	Alfalfa	Corn	Corn
POPULATION	22,100	21,800	21,900
ROWS	30"	30"	30"
FERTILIZER	120-76-20	214-48-14	137-48-48
IRRIGATION	None	None	4 inches
SOIL TEST: pH	6.5	6.8	6.7
P	105 (high)	392 (very high)	201 (very high)
K	122 (low)	434 (very high)	422 (very high)

FARM COOPERATORS: Arthur and Jim Ramthun, Montague (1987, 1986)  
Robert and August Ohse, Custer (1985)

COUNTY EXTENSION DIRECTORS: Ed Strong, Hart (1987, 1986)  
Bill Robb, Scottville (1985)

TABLE 19 NORTHERN MICHIGAN ZONE 4  
Grand Traverse County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1987	2 YR	3 YR	1987	2 YR	3 YR	1987	2 YR	3 YR
STAUFFER SEEDS S2184	19.6	--	--	124.6	--	--	0.7	--	--
GREAT LAKES 87671	19.8	--	--	118.1	--	--	3.6	--	--
PICKSEED 2600	20.3	--	--	119.3	--	--	4.2	--	--
*PICKSEED 2700	20.7	22	--	134.5	124	--	2.2	1	--
JACQUES 3110	20.9	--	--	98.0	--	--	1.4	--	--
DAIRYLAND DX1083	21.2	--	--	112.7	--	--	1.4	--	--
KING K1184	21.4	23	23	116.3	114	103	2.0	1	3
DAIRYLAND DX1080	21.8	--	--	81.6	--	--	0.8	--	--
NORTHROP KING PX9060	21.9	22	--	90.2	106	--	2.1	1	--
KING K237	21.9	--	--	98.1	--	--	2.9	--	--
*CARGILL 809	22.2	22	--	127.7	127	--	0.0	4	--
CARGILL SX123	22.7	--	--	113.7	--	--	4.9	--	--
NORTHROP KING PX9161	22.8	23	--	121.2	129	--	1.4	2	--
GOLDEN HARVEST H-2250	23.0	--	--	110.1	--	--	5.0	--	--
PICKSEED 4555	23.1	24	25	87.9	111	112	0.7	0	1
BETAGOLD GRETEL	23.3	--	--	105.8	--	--	3.1	--	--
*ANDERSONS PSX93	23.5	24	--	129.6	132	--	3.4	2	--
*PRIDE 1194	23.6	24	24	126.7	133	125	0.0	1	1
STAUFFER SEEDS S2101WX	23.8	24	25	91.1	105	106	1.1	5	4
PAYCO SX500	24.3	24	24	118.3	122	111	4.3	3	2

(continued top right)

TABLE 21

NORTHERN MICHIGAN  
Alpena County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1987	2 YR	3 YR	1987	2 YR	3 YR	1987	2 YR	3 YR
PICKSEED 2600	18.7	--	--	113.5	--	--	0.0	--	--
PICKSEED 2700	19.5	23	--	136.5	108	--	5.5	4	--
GREAT LAKES 87671	19.6	--	--	127.8	--	--	3.2	--	--
NORTHROP KING PX9151	19.9	22	25	142.1	109	109	2.4	2	2
PIONEER 3949	19.9	23	25	112.6	85	89	0.9	1	2
PAYCO SX342	20.0	22	24	138.5	109	103	0.8	1	1
JACQUES 3110	20.1	--	--	124.9	--	--	3.9	--	--
PRIDE 1125	20.3	22	--	105.2	79	--	3.4	3	--
DAIRYLAND DX1080	20.3	--	--	127.4	--	--	0.9	--	--
KING K237	20.5	--	--	141.2	--	--	0.0	--	--
KING K1184	20.6	24	26	140.8	104	97	1.5	2	2
NORTHROP KING PX9161	20.7	23	--	111.2	96	--	1.0	1	--
DAIRYLAND DX1084	20.8	--	--	101.1	--	--	0.0	--	--
PIONEER 3902	21.0	--	--	143.0	--	--	1.9	--	--
*PRIDE 1194	21.6	23	--	159.3	120	--	0.0	0	--
GOLDEN HARVEST H-2250	21.6	--	--	117.9	--	--	1.1	--	--
PICKSEED 4555	21.6	28	30	113.0	95	95	0.9	1	2
*PIONEER 3779	22.3	25	27	164.9	116	112	1.0	1	1
PRIDE X945	22.3	24	--	143.9	117	--	0.0	1	--
ASGROW/O'S GOLD 2230	22.7	24	27	144.1	112	104	2.8	2	2
*PIONEER 3803	22.8	26	--	155.3	117	--	0.9	1	--
PIONEER 3901	22.8	29	31	129.5	108	108	0.8	2	2
GREAT LAKES GL-365	22.9	--	--	147.0	--	--	4.5	--	--
PRIDE 2244	23.1	28	--	125.6	99	--	0.0	1	--
PAYCO SX500	23.1	26	29	114.9	97	98	3.0	2	2
KING K2204	23.4	25	29	147.9	110	109	1.0	2	3
*DAIRYLAND DX1087	23.8	26	--	160.3	123	--	2.1	1	--
DAIRYLAND DX1089	23.9	--	--	128.5	--	--	0.0	--	--
*GLENN-GARNO 888S	24.4	24	--	158.9	115	--	1.1	1	--
ANDERSONS PSX85	24.6	26	--	145.6	109	--	1.8	2	--
*GLENN-GARNO 900X	24.6	--	--	152.6	--	--	1.6	--	--
ASGROW/O'S GOLD RX406	24.8	--	--	133.6	--	--	2.1	--	--
GLENN-GARNO 900	25.6	29	--	131.1	105	--	2.6	2	--
*DAIRYLAND DX1096	25.8	29	31	163.8	126	119	0.0	0	0
JACQUES 4900	26.0	--	--	139.0	--	--	0.8	--	--
*CARGILL HT95	27.0	31	--	152.3	110	--	0.0	0	--
ANDERSONS QSX90	27.1	--	--	115.4	--	--	2.6	--	--
GOLDEN HARVEST H-2343	27.1	--	--	137.6	--	--	0.0	--	--
*CARGILL HT105	29.1	34	--	155.2	117	--	2.3	2	--
AVERAGE	23.2	26	28	138.9	108	104	1.5	1	2
RANGE	18.7	22	24	101.1	79	89	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	29.1	34	31	164.9	126	119	5.5	4	3
LEAST SIGNIFICANT DIFFERENCE	1.6	1.5	1.3	12.4	8	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1987

TABLE 22 (CONTINUED)

NORTHERN MICHIGAN  
Alpena County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

ZONE 4

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			DRY WEIGHT		
	1987	2 YR	3 YR	1987	2 YR	3 YR	1987	2 YR	3 YR
PAYCO SX500	27.1	30.1	27.6	17.7	15.1	17.4	4.8	4.4	4.6
NORTHROP KING PX9161	27.0	30.3	--	13.3	12.9	--	3.6	3.9	--
PIONEER 3901	27.0	28.6	26.0	20.0	17.6	21.2	5.4	5.0	5.3
PRIDE 2244	27.0	27.2	--	18.9	16.2	--	5.1	4.4	--
PIONEER 3779	26.9	27.9	25.6	18.7	16.9	20.2	5.0	4.7	5.0
CARGILL HT95	26.8	29.5	--	22.5	17.9	--	6.0	5.1	--
DAIRYLAND DX1096	26.8	29.8	26.8	17.9	16.5	19.8	4.8	4.9	5.1
GOLDEN HARVEST H-2343	26.5	--	--	20.8	--	--	5.5	--	--
CARGILL HT105	25.1	24.6	--	22.6	20.0	--	5.7	4.9	--
AVERAGE	29.1	31.1	28.4	17.2	14.8	17.9	5.0	4.5	4.8
RANGE	25.1	24.6	25.6	10.7	9.5	14.0	3.4	3.5	4.2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	35.2	37.6	32.1	22.6	20.0	21.2	6.0	5.1	5.3
LEAST SIGNIFICANT DIFFERENCE	3.1	2.4	2.0	2.5	2.0	1.7	0.7	0.5	0.5

1987

1986

1985

PLANTED	May 9	May 6	May 22
HARVESTED	September 10	October 10	September 25
SOIL TYPE			
PREVIOUS CROP	dry beans	dry beans	dry beans
POPULATION	20,300	19,900	21,900
ROWS	30 "	30 "	30 "
FERTILIZER	121-84-84	112-48-168	136-64-152
SOIL TEST: pH	6.5	5.8	6.0
P	162 (very high)	125 (very high)	69 (high)
K	138 (low)	333 (very high)	350 (very high)

FARM COOPERATOR: Allen Schiellerd, Hubbard Lake

COUNTY EXTENSION DIRECTOR: Jack Middleton, Alpena

(continued below)



	1987	1986	1985
PLANTED	May 9	May 6	May 22
HARVESTED	October 27	November 24	November 6
PREVIOUS CROP	Dry Beans	Dry Beans	Dry Beans
POPULATION	19,600	19,900	21,900
ROWS	30"	30"	30"
FERTILIZER	121-84-84	112-48-168	136-64-152
SOIL TEST: pH	6.5	5.8	6.0
P	162 (very high)	125 (very high)	69 (high)
K	138 (low)	333 (very high)	350 (very high)

FARM COOPERATOR: Allen Schiellerd, Hubbard Lake

COUNTY EXTENSION DIRECTOR: Jack Middleton, Alpena

TABLE 22 NORTHERN MICHIGAN ZONE 4  
Alpena County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1987, 1986, 1985

HYBRID (BRAND-VARIETY)	% DRY MATTER								
	1987			1986			1985		
	2	3	YR	2	3	YR	2	3	YR
PRIDE 1125	35.2	37.6	--	10.8	9.5	--	3.8	3.5	--
JACQUES 3110	34.3	--	--	14.6	--	--	5.0	--	--
GREAT LAKES 87671	33.2	--	--	16.7	--	--	5.5	--	--
PIONEER 3902	33.1	--	--	16.9	--	--	5.6	--	--
PICKSEED 2600	32.8	--	--	15.5	--	--	5.1	--	--
PAYCO SX342	32.7	36.4	32.1	13.1	11.3	14.0	4.3	4.0	4.2
GREAT LAKES GL-365	31.8	--	--	18.6	--	--	5.9	--	--
GOLDEN HARVEST H-2250	31.8	--	--	10.7	--	--	3.4	--	--
ASGROW/O'S GOLD RX406	30.9	--	--	16.0	--	--	4.9	--	--
KING K237	30.8	--	--	17.4	--	--	5.3	--	--
PIONEER 3949	30.0	34.6	31.4	15.3	12.7	16.0	4.6	4.3	4.7
PICKSEED 2700	29.5	32.7	--	16.6	14.0	--	4.9	4.5	--
JACQUES 4900	29.4	--	--	18.4	--	--	5.4	--	--
NORTHRUP KING PX9151	29.4	33.5	30.7	16.5	14.4	17.1	4.9	4.7	5.0
GLENN-GARNO 900	29.4	31.6	--	18.8	15.1	--	5.5	4.7	--
DAIRYLAND DX1080	29.3	--	--	15.4	--	--	4.5	--	--
ASGROW/O'S GOLD 2230	29.3	31.4	28.9	17.6	14.1	17.5	5.2	4.4	4.8
GLENN-GARNO 900X	29.3	--	--	20.5	--	--	6.0	--	--
ANDERSONS QSX90	28.4	--	--	17.4	--	--	4.9	--	--
GLENN-GARNO 888S	28.4	32.3	--	18.3	15.1	--	5.2	4.7	--
KING K1184	28.1	30.9	28.4	15.7	14.1	18.2	4.4	4.3	4.9
DAIRYLAND DX1087	28.1	30.7	28.4	19.6	15.5	17.9	5.5	4.6	4.9
ANDERSONS PSX85	28.1	31.4	--	18.5	15.7	--	5.2	4.8	--
PICKSEED 4555	27.5	30.3	27.3	14.9	13.4	17.0	4.1	4.0	4.4
PIONEER 3803	27.4	30.0	28.0	17.0	14.2	17.9	4.6	4.1	4.8
PRIDE 1194	27.4	32.5	--	18.4	15.0	--	5.0	4.7	--
PRIDE X945	27.4	30.5	--	15.5	14.0	--	4.3	4.2	--
DAIRYLAND DX1084	27.4	--	--	17.7	--	--	4.8	--	--
KING K2204	27.1	--	--	19.3	--	--	5.3	--	--
DAIRYLAND DX1089	27.1	--	--	15.1	--	--	4.1	--	--

(continued top right)

TABLE 23 NORTHERN MICHIGAN ZONE 4  
MEMONIEE COUNTY TRIAL  
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984\*\*

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1986		1985	1986		1985	1986		1985
	2	3	YR	2	3	YR	2	3	YR
PIONEER 3953	23.0	--	--	123.5	--	--	4.8	--	--
JUNG 2175	25.1	26	25	115.8	110	107	6.9	4	5
LAND O'LAKES 1085	26.0	26	26	139.1	132	119	17.8	10	9
*JUNG EX1010	26.1	--	--	160.3	--	--	6.8	--	--
JACQUES JX3	26.4	26	--	138.9	137	--	28.7	15	--
NORTHRUP KING PX9060	26.4	--	--	135.8	--	--	16.3	--	--
GLENN & GARNO GX902	27.0	28	--	141.1	138	--	11.1	7	--
*LAND O'LAKES 809	27.4	--	--	165.6	--	--	30.9	--	--
*NORTHRUP KING PX9151	27.8	27	27	159.0	151	144	15.7	9	9
JUNG 2350	28.4	29	28	145.3	137	127	13.2	8	8
OLDS L1085	29.7	30	--	142.2	130	--	7.9	4	--
NORTHRUP KING X1834	29.9	--	--	140.0	--	--	5.1	--	--
GLENN & GARNO GX888	30.2	--	--	148.8	--	--	11.4	--	--
OLDS L1080	30.8	29	--	133.2	127	--	10.2	7	--
JUNG 2280	31.5	29	29	123.7	118	114	11.4	7	7
LAND O'LAKES 1093	32.4	33	32	145.8	133	119	10.9	7	6
LEMPKE 43A	32.9	--	--	132.1	--	--	6.2	--	--
*JUNG 2395	33.0	32	--	159.4	143	--	18.8	11	--
*LAND O'LAKES 629	33.1	--	--	160.7	--	--	19.8	--	--
FUNK G-4141A	34.3	34	33	133.6	127	130	11.7	9	11
OLDS L1090E	34.3	--	--	137.4	--	--	7.6	--	--
PIONEER 3901	34.7	36	34	151.3	147	140	8.2	6	5
LEMPKE 43B	35.1	--	--	144.0	--	--	7.7	--	--
JACQUES 4700	35.3	36	--	147.7	136	--	13.0	8	--
FUNK G-4211	36.2	--	--	142.4	--	--	10.3	--	--
AVERAGE	30.3	30	29	142.7	133	125	12.5	8	7
RANGE	23.0	26	25	115.8	110	107	4.8	4	5
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	36.2	36	34	165.6	151	144	30.9	15	11
LEAST SIGNIFICANT DIFFERENCE	2.7	2.0	1.5	13.4	9	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 7	MAY 9	MAY 5
HARVESTED	OCTOBER 23	OCTOBER 28	OCTOBER 15
SOIL TYPE	ONAWAY LOAM	EMMET SANDY LOAM	EMMET SANDY LOAM
PREVIOUS CROP	ALFALFA	CORN	BEANS
POPULATION	19,100	23,200	20,100
ROWS	32"	30"	30"
FERTILIZER	139-48-48, MANURE	130-25-80	148-120-120
SOIL TEST: PH	7.1	7.2	7.2
P	90(HIGH)	160(VERY HIGH)	160(VERY HIGH)
K	240(HIGH)	120(LOW)	120(LOW)

FARM COOPERATOR: HARRY MIENTZ, JR., STEPHENSON (1986); STREFLING FARMS, STEPHENSON (1985, 1984)

COUNTY EXTENSION DIRECTOR: RICHARD A. BREYER, STEPHENSON

COOPERATOR: DR. RICHARD LEEP, DEPARTMENT OF CROP AND SOIL SCIENCES, MICHIGAN STATE UNIVERSITY, MARQUETTE

\*\* No 1987 data.

TABLE 24

NORTHERN MICHIGAN  
ALGER COUNTY TRIAL - SILAGE  
ZONE 4  
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984 \*\*

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
PRIDE 1103	35.0	--	--	8.6	--	--	3.0	--	--
PIONEER 3969	30.6	--	--	10.0	--	--	3.0	--	--
FUNK G-4083	29.8	27.1	31.0	13.0	13.2	13.9	3.9	3.6	4.4
KING K1122	29.8	--	--	13.1	--	--	3.9	--	--
ADOUR 833	29.7	27.5	30.0	15.8	16.6	16.3	4.6	4.5	4.8
JACQUES JX3	28.9	--	--	13.4	--	--	3.7	--	--
FUNK G-4085	27.6	23.4	25.9	14.0	14.0	14.0	3.9	3.3	3.7
FUNK 0031X	26.5	--	--	18.0	--	--	4.8	--	--
KING K127	26.2	--	--	11.9	--	--	3.1	--	--
BETASEED GRETCHEN	25.6	--	--	12.8	--	--	3.3	--	--
GOLDEN HARVEST EX777	25.4	--	--	16.9	--	--	4.3	--	--
PIONEER 3953	25.3	--	--	11.3	--	--	2.9	--	--
KING K1113	25.0	24.0	27.2	13.3	14.1	13.3	3.3	3.4	3.5
CARGILL HT95	24.7	--	--	16.4	--	--	4.0	--	--
GREAT LAKES 8558	24.6	--	--	14.8	--	--	3.6	--	--
PIONEER 3949	23.9	--	--	14.4	--	--	3.4	--	--
BETASEED EXP 216	23.2	--	--	16.6	--	--	3.9	--	--
GLENN & GARNO GE 740	22.8	--	--	11.5	--	--	2.6	--	--
JACQUES JX 33	21.1	--	--	13.0	--	--	2.7	--	--
CARGILL HS50A	20.1	--	--	20.6	--	--	4.2	--	--
AVERAGE	26.2	25.5	28.5	14.0	14.5	14.4	3.6	3.7	4.1
RANGE	20.1	23.4	25.9	8.6	13.2	13.3	2.6	3.3	3.5
	35.0	27.5	31.0	20.6	16.6	16.3	4.8	4.5	4.8
LEAST SIGNIFICANT DIFFERENCE	3.5	3.0	2.6	2.9	2.5	2.3	1.0	0.8	0.8

	1986	1985	1984
PLANTED	MAY 14	MAY 14	MAY 21
HARVESTED	OCTOBER 9	OCTOBER 1	OCTOBER 1
SOIL TYPE	TRENARY SANDY LOAM	CHATHAM LOAM	TRENARY LOAM
PREVIOUS CROP	SOD	CORN	BEANS
POPULATION	17,400	16,600	16,600
ROWS	30"	30"	36"
FERTILIZER	68-68-68	130-25-80	136-75-75
SOIL TEST: PH		7.2	7.3
P		100(HIGH)	175(VERY HIGH)
K		180(MEDIUM)	75(LOW)

FARM COOPERATOR: MARK NACHTMAN, TRAUNICK  
COOPERATOR: DR. RICHARD LEEP, DEPARTMENT OF CROP AND SOIL SCIENCES,  
MICHIGAN STATE UNIVERSITY, MARQUETTE

COUNTY EXTENSION DIRECTOR: JIM LEMPE, MUNISING

\*\* No 1987 data.

TABLE 25 (continued)

<b>Cargill Seeds, Minneapolis, MN 55440</b>	
Cargill HS50A (Sp.) (24)	Cargill 3477 (2X) (6,7,9,10,11,12,13,14,15,17)
Cargill B53 (9,10)	Cargill 3537 (2X) (3,7,8,9,10,11,12,13,14,15,16,17)
Cargill HT95 (Sp.) (9,10,11,12,21,22,24)	Cargill 3987 (2X) (4,6,7,9,10,11,12,14,15,16,17)
Cargill HT105 (Sp.) (9,10,11,12,21,22)	Cargill 859 (2X) (4,6,7,8,13,14,15,16,17)
Cargill HT108 (Sp.) (9,10,11,12)	Cargill 893 (2X) (1,2,3,4,5)
Cargill HT110 (Sp.) (9,10)	Cargill 5157 (2X) (2,4,8,9,10,11,12,13)
Cargill HT115 (Sp.) (9,10)	Cargill 6127 (2X) (1,2,3,4,5,11,12)
Cargill HT120 (Sp.) (9,10)	Cargill 7567 (2X) (1,3,5)
Cargill SX123 (2X) (16,19)	Cargill 7877 (2X) (1,2,3,5)
Cargill SX239 (2X) (4,7)	Cargill 130410 (2X) (1,2,5,6,7,8,9,10,11,12)
Cargill SX310 (2X) (3)	Cargill 130411 (2X) (2,3,4,6,7,8,9,10,11,12,13,14,15)
Cargill 809 (2X) (16,19)	
Cargill 819 (2X) (16)	
Cargill 937 (2X) (2,3,5)	
Cargill 2787 (2X) (14,15,16)	
<b>Countrymark, Inc., Columbus, OH 43216</b>	
Countrymark C363X (2X) (1,2,3,4,5,7,8,9,10,11,12,13,14,15,17,19)	Countrymark C565X (2X) (1,2,3,4,5,7,8,9,10,11,12,13,14,15,17)
<b>Crow's Hybrid Corn Co., Milford, IL 60953</b>	
Crow's 181 (2X) (1)	Crow's 442 (2X) (1,3,5)
Crow's 199 (2X) (1,2,3,9,10)	Crow's 444 (2X) (1,2,3,5)
Crow's 210 (2X) (1,2,3,4)	Crow's 482 (2X) (1,2,3,4,5)
Crow's 212 (2X) (2,3)	Crow's 488 (2X) (1,2,3,4,5)
Crow's 344 (2X) (1,3,9,10)	
<b>Custom Farm Seed, Momence, IL 60954</b>	
CFS W4052 (2X) (7,11,12)	CFS W6253 (2X) (3)
CFS W5753 (2X) (7)	CFS 7501 (2X) (3)
CFS 6203 (2X) (3,7,11,12)	
<b>Dairyland Seed Co., Inc., West Bend, WI 53095</b>	
Dairyland DX1006 (2X) (9,10,11,12,13,14,15)	Dairyland DX1095 (2X) (6,7,8,9,10,11,12,13,14,15,16,17,18)
Dairyland DX1013 (2X) (1,2,3,4,5)	Dairyland DX1096 (2X) (7,8,13,21,22)
Dairyland DX1015 (2X) (1,2,3,4,5)	Dairyland DX1097 (2X) (9,10,11,12,13,14,15,16,17)
Dairyland DX1017 (2X) (1,2,3,4,5)	Dairyland DX1102 (2X) (11,12,13,16)
Dairyland DX1080 (2X) (18,19,20,21,22)	Dairyland DX1103 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
Dairyland DX1083 (2X) (18,19,20)	Dairyland DX1105 (2X) (7,8)
Dairyland DX1084 (2X) (20,21,22)	Dairyland DX1107 (2X) (1,2,3,4,5,6,7,8,9,10,13,14,15,17)
Dairyland DX1087 (2X) (18,19,20,21,22)	Dairyland DX1108 (2X) (1,2,3,4,5,6,7,8,9,10,13,14,15,17)
Dairyland DX1089 (2X) (7,16,21,22)	
<b>DeKalb-Pfizer Genetics, DeKalb, IL 60115</b>	
DeKalb-Pfizer DK397 (2X) (20)	DeKalb-Pfizer DK484 (2X) (6,7,13,16,17)
DeKalb-Pfizer DK415 (2X) (16,18,20)	DeKalb-Pfizer DK524 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
DeKalb-Pfizer DK435 (2X) (14,15,18)	DeKalb-Pfizer DK547 (2X) (1,2,5,9,10,11,12,13)
DeKalb-Pfizer DK461 (2X) (8,11,12,18)	DeKalb-Pfizer DK572 (2X) (1,2,3,4,5,7,9,10)
DeKalb-Pfizer DK464 (2X) (14,15,18)	
<b>Funk Seeds International, Bloomington, IL 61701</b>	
Funk 0031X (2X) (24)	Funk G-4141A (MSX) (23)
Funk G-4083 (2X) (24)	Funk G-4211 (2X) (23)
Funk G-4085 (MSX) (24)	

(continued below)

TABLE 25

Index for 358 hybrids entered as 1,915 entries in the 1987 Michigan Corn Performance Trials. Numbers within parentheses refer to table numbers in which the hybrid appears. (2X) indicates a single-cross hybrid, (MSX) indicates a modified single-cross, (3X) indicates a three-way hybrid, (4X) indicates a double-cross hybrid 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.

AgriPro, Mission, KS 66201

AgriPro 270 (2X) (7,8)	AgriPro AP510 (2X) (2,3,5)
AgriPro HP277 (2X) (11,12)	AgriPro 644 (2X) (2,5,6,7,8,9,10,11,12)
AgriPro AP304 (3X) (9,10)	AgriPro 680 (2X) (1,2,3,4,5,7,8,9,10,11,12,13)
AgriPro AP391 (2X) (13)	AgriPro 710A (2X) (1,2,3,4,5,11,12)
AgriPro HP470 (2X) (1,3,4)	
AgriPro 474A (2X) (6,7,8)	

American Hybrids, Inc., Quincy, MI 49082

American 808X (2X) (3)	American 6082 (2X) (3)
American 5050 (2X) (7,13)	American 6565 (2X) (3,7,13)

The Andersons, Maumee, OH 43537

Andersons PSX85 (2X) (16,18,20,21,22)	Andersons PSX100 (2X) (2,8,11,12,13)
Andersons QSX90 (4X) (20,21,22)	Andersons PSX103 (2X) (2,3,4,5,7,9,10,14,15)
Andersons PSX93 (2X) (6,8,16,18,19)	Andersons QSX105 (3X) (1,5)
Andersons QSX95 (4X) (7,8)	Andersons PSX107 (2X) (1,2,3,4,5,6,9,10,11,12,13)
Andersons PSX99 (2X) (3,4,11,12,13,14,15)	Andersons PSX110 (2X) (1,2,3)

Asgrow Seed Co., Kalamazoo, MI 49001

Asgrow/O's Gold RX406 (2X) (11,12,16,18,21,22)	Asgrow/O's Gold RX626 (2X) (1,2,3,4,5,6,7,8,9,10,13,17)
Asgrow/O's Gold RX480 (2X) (13)	Asgrow/O's Gold RX788 (2X) (2,5)
Asgrow/O's Gold RX498 (2X) (6,7,8,9,10,11,12,13,14,15,16,17,18)	Asgrow/O's Gold 2230 (2X) (21,22)
Asgrow/O's Gold RX578 (2X) (1,2,3,4,5,6,7,8,9,10,13,17)	Asgrow/O's Gold 2330 (2X) (8,11,12,14,15,18)
	Asgrow/O's Gold 2545 (2X) (5)
	Asgrow/O's Gold 6880 (2X) (13)

Beck's Hybrids, Atlanta, IN 46031

Beck's 39X (2X) (1,4,6)	Beck's 63X (2X) (2,3,5)
Beck's 49X (2X) (3)	Beck's 64XA (2X) (1,2,3,4,5)
Beck's 51X (2X) (1,2,5)	Beck's 65X (2X) (3,5)
Beck's 55X (2X) (1,3,4,5,6)	

Betaseed, Inc., Shakopee, MN 55379

Betagold Erika (2X) (14,15,16,19)	Betagold Kristine (2X) (8,11,12,13,14,15)
Betagold Gretel (2X) (19,24)	Betagold EXP.392 (2X) (2,5,9,10)
Betagold Heidi (2X) (2,5,8,9,10)	Betagold EXP.216 (2X) (24)
Betagold Ingrid (2X) (11,12,13,14,15,16)	

Callahan Seeds, Westfield, IN 46074

Callahan C726 (2X) (11,12)	Callahan 19071X (2X) (1,9,10)
Callahan C728 (2X) (11,12,16,18)	Callahan 19101X (2X) (2,3,5,13)
Callahan C738 (2X) (11,12,16)	Callahan 19102X (2X) (16,17,18)
Callahan C747 (2X) (6,11,12,13,17)	Callahan 19908X (2X) (5)
Callahan C754 (2X) (3,5,6,9,10)	Callahan 19925X (2X) (1,13)
Callahan C766 (2X) (2)	

Cardinal Seeds, Chatham, Ontario, Canada N7M5K3

Cardinal SX112 (2X) (9,10)	Cardinal MX335 (2X) (9,10)
Cardinal MX320 (2X) (9,10)	

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

Super Crost 1989 (2X) (11,12,13)	Super Crost 4304 (2X) (2,3)
Super Crost 2196 (2X) (8,13,14,15,16,17)	Super Crost 5415 (2X) (5)
Super Crost 2989 (2X) (1,2,3,4,5,7,8,9,10,11,12,13,14,15)	Super Crost Exp. 87105 (7,11,12,14,15,16,17)

Garno Seed Co. Inc., Palmyra, MI 49268

Garno S-100X (2X) (3,9,10,13)

Garst Seed Co., Bloomington, IL 61701

Garst 8555 (2X) (1,2,3,4,5)	Garst 8808 (2X) (7,8,9,10,11,12,13,14,15,16,17,18)
Garst 8589 (2X) (1,2,3,4,5)	Garst 8882 (2X) (11,12,13,14,15,16,17,18)
Garst 8702 (2X) (7,8,9,10)	

Glenn-Garno, Inc., Stockbridge, MI 49285

Glenn-Garno GE740 (2X) (24)	Glenn-Garno 988 (2X) (11,12,13,14,15,16,17)
Glenn-Garno 888S (2X) (6,11,12,13,14,15,16,17,18,19,20,21,22,23)	Glenn-Garno 1003 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17)
Glenn-Garno 900 (2X) (6,11,12,13,14,15,16,17,18,19,20,21,22)	Glenn-Garno 1005 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
Glenn-Garno 900X (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22)	Glenn-Garno 1007 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17)
Glenn-Garno 902 (2X) (23)	Glenn-Garno 1012 (2X) (1,2,3,4,5,9,10)
Glenn-Garno 944 (2X) (7,8,9,10,11,12,13,14,15)	

Great Lakes Hybrids, Inc., Ovid, MI 48866

Great Lakes GL-320 (2X) (18)	Great Lakes GL-584 (2X) (1,2,4,5,9,10,14,15)
Great Lakes GL-365 (2X) (21,22)	Great Lakes GL-590 (2X) (3)
Great Lakes GL-414 (2X) (18)	Great Lakes GL-599 (2X) (1,4,5,14,15)
Great Lakes GL-420 (2X) (7,11,12,13,14,15,16,17,18)	Great Lakes 5922 (2X) (1,2,9,10,14,15)
Great Lakes GL-482 (2X) (7,8,9,10,11,12,13,14,15,16,17)	Great Lakes 82351 (2X) (19)
Great Lakes GL-487 (2X) (6,9,10,11,12,13,14,15)	Great Lakes 86601 (2X) (9,10,14,15)
Great Lakes GL-509 (2X) (1,6,7,8,9,10,11,12,13,14,15,16,17)	Great Lakes 87656 (2X) (2,4,5,14,15)
Great Lakes GL-579 (2X) (1,2,3,7,8,9,10,11,12,13,14,15)	Great Lakes 87671 (2X) (19,21,22)
Great Lakes GL-582 (2X) (1,2,3,4,5,7,14,15)	Great Lakes 87674 (2X) (8,17)
	Great Lakes 87676 (2X) (7,8)
	Great Lakes 87682 (2X) (14,15)

Gries Seed Farms, Inc., Fremont, OH 43420

Gries GSPX580 (2X) (1,2,3,4,7,8,9,10,11,12,13,14,15,16,17,18)	Gries GSPX622A (2X) (1,2,3,4,7,8,9,10,11,12,13,14,15,16,17,18)
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Jacques Seed Co., Prescott, WI 54021

Jacques JX3 (2X) (23,24)	Jacques 4900 (2X) (7,8,9,10,11,12,13,14,15,16,17,18,21,22)
Jacques JX33 (2X) (24)	Jacques 5710 (2X) (11,12,16,17)
Jacques 3110 (2X) (19,21,22)	Jacques 7700 (2X) (1,2,3,4,5,7,8,9,10,13,14,15)
Jacques 4700 (2X) (18,19,23)	Jacques 7770 (2X) (1,2,3,4,5)

Jung Farms, Inc., Randolph, WI 53957

Jung EX1010 (2X) (23)	Jung 2350 (2X) (23)
Jung 2175 (2X) (23)	Jung 2395 (2X) (23)
Jung 2280 (2X) (23)	

Farm Feeds & Feed By-Products, Inc., Coral, MI 49322

Kains K85 (2X) (7,17)	Kains K96 (2X) (7,17)
Kains K92 (2X) (7,17)	

(continued top right)

(continued next page)

TABLE 25 (continued)

King Grain, Co., Chatham, Ontario, Canada N7M5L6

King K127 (2X) (24)	King K2204 (2X) (11,12,13,14,15,16,17,18,19,20,21,22)
King K237 (2X) (19,20,21,22)	King K4422 (2X) (7,8,9,10,11,12,13,14,15,16,17,18)
King K416 (2X) (7,8,9,10,11,12,13,14,15,16,17,18,19)	King K4464 (2X) (1,5,6,7,8,9,10,14,15,16,18)
King K596 (2X) (1,4)	King K4484 (2X) (1,4)
King K647 (2X) (1,2,3,4,5,6)	King K5574 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13)
King K1113 (2X) (24)	
King K1122 (2X) (24)	
King K1184 (2X) (19,20,21,22)	
King K2203 (2X) (16,17,18)	

Land O'Lakes, Inc., Minneapolis, MN 55440

Land O'Lakes 629 (23)	Land O'Lakes 1085 (2X) (23)
Land O'Lakes 809 (23)	Land O'Lakes 1093 (2X) (23)

Leader Seeds, Inc., Celina, OH 45822

Leader SX488 (2X) (4)	Leader SX535 (2X) (1,2,4,5)
Leader LSX530 (2X) (2,4)	Leader SX575 (2X) (1,2,5)

Lemke, Wisconsin

Lemke 43A (23)	Lemke 43B (23)
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Lynks Seeds, Marshalltown, IA 50158

Lynks LX4084 (2X) (6)	Lynks LX4304 (2X) (2)
Lynks LX4235 (2X) (1,3,5)	

Maisadour, 40001 Mont-de-Marson Cedex, France

Adour 833 (24)
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Maumee Valley Seeds, Inc., Woodburn, IN 46797

Maumee Valley MV-509 (2X) (2,3,4,5,6,8,9,10)	Maumee Valley MV-812 (2X) (2,3,4,5,6,8,9,10)
Maumee Valley MV-611 (2X) (2,3,4,5,6,8,9,10)	Maumee Valley MV-851 (2X) (2,3,4,5,6,9,10)
Maumee Valley MV-630 (MSX) (2,3,4,5,6,8,9,10)	Maumee Valley MV-888 (2X) (2,3,4,5,9,10)
Maumee Valley MV-762 (2X) (2,3,4,5,6,8,9,10)	Maumee Valley MV-910 (2X) (2,3,4,5,9,10)

McCurdy Seed Co., Fremont, IA 52561

McCurdy 5750 (2X) (1,2,3,4)	McCurdy 5990 (2X) (2,4)
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Michigan Hybrid Seed Co., Mason, MI 48854

Wolverine W130 (2X) (13,16)	Wolverine W168 (2X) (8,13)
Wolverine W156 (2X) (4,7,8,13,14,15,16)	Wolverine W174A (2X) (4,7)
Wolverine W163 (2X) (4,7,13,14,15,16,17)	Wolverine W189 (2X) (13,16)

North Coast Seed Co., Milan, OH 44846

North Coast 2040 (2X) (1)	North Coast 2340 (2X) (1)
North Coast 2080 (2X) (1)	North Coast 2412 (2X) (1)
North Coast 2310 (2X) (1)	North Coast 2515 (2X) (1)
North Coast 2320 (2X) (1)	

Northrup King Co., Minneapolis, MN 55440

Northrup King PX39 (2X) (4,7,8,14,15,17)	Northrup King PX9292 (2X) (7,8,9,10,11,12,14,15,16,17,18)
Northrup King XI834 (23)	Northrup King PX9353 (2X) (13)
Northrup King X4325 (2X) (1,2,3,4,9,10,14,15)	Northrup King PX9385 (2X) (3,4,6,8,9,10,11,12,13,14,15,16,17)
Northrup King PX9060 (2X) (19,23)	Northrup King PX9470 (2X) (1,2)
Northrup King PX9151 (2X) (21,22,23)	Northrup King PX9527 (2X) (3)
Northrup King PX9161 (2X) (19,21,22)	Northrup King PX9540 (2X) (2,3,5)
Northrup King PX9283 (2X) (7,8,18)	

TABLE 25 (continued)

Select Seed Hybrids, Camden, IN 46917

Select 2626 (2X) (13)	Select 4850 (2X) (1,3,4)
Select 2772 (2X) (4,13)	Select 4905 (2X) (5)
Select 3100 (2X) (13)	Select 4972 (2X) (1,3,5)
Select 3720 (2X) (1,3,4,5,13)	Select 5015 (2X) (3,5)
Select 4144 (2X) (1,3,4,5)	Select 5040 (2X) (1,3,4,5)
Select 4701 (2X) (1,3,5)	Select 5188 (2X) (1,3,5)

Sommerville Bros. Seed Co., Pekin, IL 61554

Golden Harvest EX536 (2X) (3,11,12)	Golden Harvest H-2344 (2X) (6,7,8,9,10,11,12,13,14,15,16,17,18)
Golden Harvest EX615 (2X) (13,17)	Golden Harvest H-2465 (2X) (1,2,4,5,6,8,9,10,13,17)
Golden Harvest EX710 (2X) (13,17)	Golden Harvest H-2492 (2X) (2,5,8,9,19,20,21,22)
Golden Harvest EX777 (2X) (24)	Golden Harvest H-2572 (2X) (1,2,3,4,5,11,12,13,14,15,16,17,18,19,20,21,22)

Stauffer Seeds, Inc., Indianapolis, IN 46224

Stauffer Seeds S2101WX (2X) (19)	Stauffer Seeds S4590 (2X) (1,5,9,10,11,12,14,15)
Stauffer Seeds S2184 (2X) (19)	Stauffer Seeds S5340 (2X) (1,3,4,5,8,9,10,11,12,13,14,15)
Stauffer Seeds S2206 (2X) (16)	Stauffer Seeds S5650 (2X) (3,4,8)
Stauffer Seeds S3303 (2X) (9,10,11,12,13,14,15)	Stauffer Seeds S5722 WX (2X) (5)
Stauffer Seeds S3306 (2X) (8,11,12,16,17)	Stauffer Seeds S5750 (2X) (1,5,9,10,11,12)
Stauffer Seeds S4402 (2X) (14,15)	Stauffer Seeds S6707WX (2X) (5)
Stauffer Seeds S4454WX (2X) (9,10,11,12,13,17)	Stauffer Seeds S7751 (2X) (1)
Stauffer Seeds S4474 (2X) (1,3,4,5,8,11,12,16,17)	

Terra International, Champaign, IL 61820

Terra TR29 (2X) (1,3,4,11,12,13,14,15,16)	Terra TR1040 (2X) (1,3,4,11,12,13,14,15,16)
Terra TR32 (2X) (1,3,4,11,12,13,14,15,16)	Terra TR1060 (2X) (1,3,4,11,12,13,14,15,16)
Terra TR151E (2X) (11,12,13,14,15,16)	Terra TR1125 (2X) (1,3,4)
Terra TR162E (2X) (11,12,13,14,15,16)	Terra TR3100 (2X) (11,12,13,14,15,16)
Terra TR262E (2X) (1,3,4)	Terra TR3102 (2X) (1,3,4,11,12,13,14,15,16)
Terra TR975 (2X) (1,3,4,11,12,13,14,15,16)	Terra TR3200 (2X) (1,3,4,11,12,13,14,15,16)
	Terra TR3203 (2X) (1,3,4)

Trelay, Inc., Livingston, WI 53554

Trelay 5808 (2X) (8)	Trelay 7020 (2X) (3)
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Voris Seeds, Inc., Windfall, IN 46076

Voris V2331 (2X) (6)	Voris V2471 (2X) (9,10)
Voris V2365 (2X) (6,9,10,13)	Voris V2491 (2X) (1)
Voris V2465 (2X) (1,5)	Voris V2515 (2X) (1,5)

(continued below)

Olds Seed Co., Madison, WI 53707

Olds L1080 (23) Olds L1090E (23)  
Olds L1085 (2X) (23)

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

Parker 52A (2X) (2) Parker 400 (3X) (2,5)  
Parker 63 (2X) (2,5)

Payco Seeds, Dassel, MN 55325

Payco SX342 (2X) (21,22) Payco SX786 (2X) (1,2,3,4,5,17)  
Payco SX500 (2X) (19,21,22) Payco SX800 (2X) (5)  
Payco SX611 (2X) (13) Payco SX847 (2X) (3,11,12)  
Payco SX686 (2X) (1,2,4,5,6,7,8,16,19) Payco SX872 (2X) (2,4,6,7,8,13)

Otto Pick & Sons Seeds Ltd., Richmond Hill, Ontario, Canada L4C4X9

Pickseed 2600 (2X) (19,21,22) Pickseed 5575 (2X) (11,12,13,14,15,16,  
17,18)  
Pickseed 2700 (2X) (19,20,21,22,23) 17,18)  
Pickseed 4555 (2X) (19,21,22) Pickseed 8898 (2X) (7,8,9,10,13,16,18)

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

Pioneer 3352 (2X) (1,2,3,4,5,6) Pioneer 3779 (2X) (7,8,11,12,13,14,  
15,16,17,18,20,21,22)  
Pioneer 3475 (2X) (1,2,3,4,5,6,11,  
12,13,14,15) Pioneer 3790 (2X) (11,12,13,14,15,16,  
17,18)  
Pioneer 3540 (2X) (1,2,3,4,5,6,7,8,  
9,10) Pioneer 3803 (2X) (20,21,22)  
Pioneer 3704 (2X) (7,8,9,10) Pioneer 3901 (2X) (11,12,13,14,15,16,  
17,18,20,21,22,23)  
Pioneer 3737 (2X) (1,2,3,4,5,6,7,8,  
9,10,11,12,13,14,15,16,17,18) Pioneer 3902 (2X) (20,21,22)  
Pioneer 3744 (2X) (1,2,3,4,5,6,7,8,  
9,10,11,12,13,14,15,16,17,18) Pioneer 3949 (2X) (20,21,22,24)  
Pioneer 3953 (23,24)  
Pioneer 3969 (24)

Prairie Stream Farms, Inc., Frankfort, IN 46041

Prairie Stream SX502 (2X) (5) Prairie Stream M4400 (3X) (5)

Pride Co., Inc., Golden Valley, MN 55427

Pride Exp.99 (2X) (7,13) Pride 2244 (2X) (11,12,14,15,16,19,  
21,22)  
Pride X945 (2X) (7,11,12,13,14,15,  
16,19,21,22) Pride 4422 (2X) (9,10,11,12,13,14,15)  
Pride 1103 (24) Pride 5547 (2X) (1,2,3,5,9,10,11,12,  
13)  
Pride 1125 (2X) (21,22) Pride 6656 (2X) (1,2,3)  
Pride 1194 (2X) (11,12,14,15,16,  
19,21,22) Pride 7705 (2X) (1,2,3,5)

Pro-Seed, Inc., Blissfield, MI 49228

Pro-Seed PS2094 (2X) (1,3,9,10,13) Pro-Seed Exp.4186 (2X) (1)  
Pro-Seed PS2100 (2X) (1,3,9,10,13) Pro-Seed Exp.4986 (2X) (1)  
Pro-Seed PS2104 (2X) (1,3,9,10,13) Pro-Seed Exp.177111 (2X) (1)  
Pro-Seed PS2110 (2X) (1,3)

Renk Seed Co., Sun Prairie, WI 53590

Renk RK7A (2X) (11,12,13,14,15) Renk RK64 (2X) (1,3,4,9,10,11,12,13,  
14,15)  
Renk RK19 (2X) (9,10,11,12,13) Renk RK68 (2X) (1,3,4,9,10,13,14,15)  
Renk RK21 (2X) (13,14,15) Renk RK73 (2X) (1,3,4,9,10)  
Renk RK25 (2X) (1,3,4,9,10,13,14,15) Renk RK76 (2X) (1,3,4,9,10,13,14,15)  
Renk RK27 (2X) (1,3,4,11,12,13,14,  
15) Renk R138 (3X) (9,10,11,12,13,14,15)  
Renk RK60 (2X) (13,14,15) Renk R148 (3X) (1,3,4,9,10,11,12,13,  
14,15)

Rupp Seeds, Inc., Wauseon, OH 43567

Rupp XR1492 (2X) (13,16) Rupp XR1627 (2X) (16)  
Rupp XR1527 (2X) (4,7,9,10,13) Rupp XR1639 (2X) (1,2,3,5,6,9,10)  
Rupp XR1555 (2X) (4,16) Rupp XR1690 (2X) (7)

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The first part of the report  
 deals with the general  
 situation of the country  
 and the progress of the  
 various departments.  
 It is followed by a  
 detailed account of the  
 operations of the  
 different branches of  
 the service.  
 The report concludes  
 with a summary of the  
 results achieved during  
 the year and a  
 statement of the  
 resources available for  
 the following year.

The second part of the report  
 contains a list of the  
 names of the officers  
 who have held the  
 various positions during  
 the year.  
 It also includes a  
 list of the names of  
 the persons who have  
 been promoted or  
 transferred during  
 the year.  
 The list is arranged  
 in alphabetical order  
 and includes the  
 names of all the  
 officers who have  
 served in the  
 various departments.  
 The list is followed  
 by a list of the  
 names of the persons  
 who have been  
 appointed to the  
 various positions  
 during the year.  
 The list is arranged  
 in alphabetical order  
 and includes the  
 names of all the  
 persons who have  
 been appointed to  
 the various positions.  
 The list is followed  
 by a list of the  
 names of the persons  
 who have been  
 discharged from the  
 service during the  
 year.  
 The list is arranged  
 in alphabetical order  
 and includes the  
 names of all the  
 persons who have  
 been discharged from  
 the service during  
 the year.



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