

1987

Michigan Corn Production

HYBRIDS
COMPARED



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Hybrid corn trials are conducted each year by the Michigan Agricultural Experiment Station in cooperation with the Cooperative Extension Service, seed corn companies and farmers.

Many different hybrids are offered for sale in Michigan. They differ in yield ability, maturity, lodging resistance and other characteristics. Choosing the best corn hybrids is an important part of profitable corn production. 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 1986 trials produced 32 bushels more corn per acre than the average of the 435 hybrids tested (Table A) and 65 bushels more than the lowest yielding hybrids. At 21 testing locations, the yields were 171 bushels for the highest, 138 bushels for the average and 106 bushels for the lowest yielding hybrids. The driest hybrids at harvest contained 9 percent less moisture than the wettest hybrids tested. Stalk breakage averaged 12 percent for hybrids with the highest amount of stalk lodging, 4 percent for the average and 0.5 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 27 presents an index of all hybrids entered in the 1986 trials. At the 21 locations, 435 hybrids were tested as 2,281 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 hybrid with (4X), modified single-cross hybrids with

(MSX) and special cross hybrids with (Sp) following the hybrid name and number in the index (Table 27).

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.

Growing Conditions

All planting was completed between April 24 and May 29. Planting was timely and ahead of normal at most locations. Late May was cool and wet. Heavy rains in southern and south central Michigan

in mid June caused flooding at some locations. Corn made good to excellent growth in July. Plant height averaged 54 inches on July 20, four inches above normal height. The crop was 60 percent silked by July 27 compared to 45 percent for normal.

Timely rains during July and August resulted in less than normal moisture stresses. Denting of corn was slightly behind normal — 65% on September 14 compared to 75% for normal. Maturity was also behind normal — 75% on October 12 as compared to 95% for normal.

Four weeks of excessive rains, 10-17 inches, during the last half of September and early October caused extensive flooding and crop damage. Some sprouting of grain and molds developed on the ears.

Silage harvest was delayed at the Sanilac and Huron county locations due to wet fields. Premature killing frosts occurred at the Cass County — muck soil and Alpena County locations.

Rains subsided during late October and November, and harvest of overstate research plots was completed between October 8 and November 6.

Total corn acreage was 2,900,000, down 6% from 1985, with 2,500,000 acres harvested for grain and 400,000 for silage. The Michigan Crop Reporting Service estimates a state average yield of 108 bushels per acre and total grain production of 270,000,000 bushels.

No-Till Trials

Hybrid corn trials were conducted with a no-till production system at two locations — Kellogg Biological Station (KBS) in Kalamazoo County and Michigan State University (MSU) in Ingham County (Tables 25 and 26). Cooperators were Drs. Oran B. Hesterman and Francis J. Pierce of the Department of Crop and Soil Sciences. These trials were not part of the open-entry, fee-assessed trials presented in this report. Selection of hybrids was made by E.C. Rossman.

Eighteen hybrids were grown without irrigation in a comparison of no-till vs. conventional tillage at MSU. Yields for no-till corn were significantly lower than those for conventional tillage (moldboard plow) in 1985. In 1986, there was no difference in corn yield between tillage systems. Yields listed in Table 26 are from no-till plots.

Fifteen hybrids, planted no-till and conventional tillage, irrigated and non-irrigated, were evaluated at KBS. Yields for the two tillage systems and irrigation were not significantly different in either 1985 or 1986. Yields listed in Table 25 are averages for irrigated and non-irrigated no-till.

How To Use This Bulletin

One-, two- and three-year averages are presented for all hybrids tested during 1986, 1985 and 1984. 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 1986.

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 map on the following page 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

Maturity

Hybrids are listed in the tables in order of maturity (early to late) based on moisture content of the grain at harvest. This is usually a reasonable, accurate measure of relative maturity in most years in Michigan. Early-maturing hybrids are generally lower in moisture content than later-maturing hybrids. Differences among hybrids in rate of drying in the field also affect moisture content at harvest, but usually do not greatly disturb the relative maturity ratings as determined by moisture content.

One percent more moisture at harvest means a delay in maturity of about two days. Corn is mature when moisture is about 32 percent in the grain or 38 percent in the ear.

For Grain

It is better to choose an early corn (below average moisture content) than a late corn for grain. The tables show that good yields do not depend on later maturity. Advantages of early-maturing hybrids are:

- They usually mature before killing frosts.
- Good-yielding early hybrids generally yield as much or more than late hybrids in most areas in Michigan.
- Early hybrids with lower moisture content at harvest reduce drying costs and market discounts for moisture.
- Mature, dry corn makes better livestock feed.
- You can harvest earlier in the fall when weather conditions are most favorable. Early harvest may reduce corn losses resulting from broken stalks and dropped ears.
- Fall plowing of corn stubble may be possible with early hybrids on land not subject to erosion.

For Silage

The best silage contains a high percentage of grain. Hybrids that produce high yields of grain

should be used for silage. High dry-weight production per acre is a better reason for choosing hybrids for silage than tons of green weight.

Corn for silage should reach the early dent stage well before frost in an average year. The early dent stage, when most of the kernels have dented, is the best time to begin harvest for silage. Dry matter production continues to increase until maturity.

Other Considerations

Choose early hybrids for late plantings, low soil fertility, sandy soils, muck soils and for corn that is to be followed by a winter grain or cover crop.

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

Even though you have been growing a hybrid that has given good results, you may be able to improve your corn crop by trying one or more hybrids with better records in these trials. Well-tested, new hybrids are worth trying. You may want to try a new hybrid in a strip in the same field with your present hybrid.

Ways to Reduce Stalk Lodging

Several stalk-rotting fungi may cause broken stalks at harvest and create a major problem in corn production. Stalk rot occurs when fungi increase rapidly after the plant has matured or when the plant has died prematurely. Highest incidence of stalk rot occurs in years when corn matures early and when harvest is delayed. Infection and disease development are favored by warm, humid weather and abundant rainfall during the latter part of the growing season.

Hybrid resistance to stalk rot is only one of several factors that determine the extent of stalk breakage.

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.

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 1987

Use the following recommendations to help prevent moldy corn in 1987:

- 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 1987

Production of hybrid seed corn in 1986 was good to very good. Seed supplies of most hybrids should be adequate for 1987 planting.

TABLE A AVERAGE, HIGHEST AND LOWEST MOISTURE CONTENT, GRAIN YIELD, AND STALK LODGING AT 19 LOCATIONS IN 1986

LOCATION — COUNTY	NO. OF HYBRIDS	BUSHELS PER ACRE			% MOISTURE			% STALK LODGING		
		AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST
MONROE	161	170	208	141	24	27	21	5	12	1
HILLSDALE-IRRIGATED	125	150	200	119	24	28	20	5	15	1
BRANCH	142	177	217	133	22	25	19	4	10	1
KALAMAZOO	103	149	194	116	22	25	19	4	25	0
KALAMAZOO-NO TILL	15	152	177	135	25	29	23	2	5	0
CASS-UPLAND IRRIGATED	121	169	223	121	25	28	20	2	9	0
CASS-MUCK SOIL	73	110	135	87	23	27	20	2	8	0
KENT	98	110	130	73	24	27	21	1	6	0
OTTAWA	90	115	144	74	24	27	21	3	9	1
INGHAM	140	148	184	121	23	33	19	1	5	0
INGHAM-NO TILL	18	118	135	102	37	41	32	5	10	2
SANILAC	105	152	176	126	28	34	24	2	6	0
SAGINAW	130	161	202	131	23	26	21	2	6	0
HURON	120	118	149	93	24	30	20	3	10	0
ISABELLA	77	128	158	87	23	28	20	3	22	0
MONTCALM-IRRIGATED	67	185	234	151	24	27	21	2	5	0
MONTCALM-NOT IRRIGATED	67	142	175	106	24	27	21	7	18	1
OCEANA	43	98	129	65	22	26	20	5	22	1
GRAND TRAVERSE	45	119	149	84	24	28	22	2	8	0
ALPENA	50	72	90	51	29	42	23	2	5	0
MENOMINEE	25	143	166	116	30	36	23	13	31	5
AVERAGE		138	171	106	25	30	21	4	12	1

TABLE 1

SOUTHERN MICHIGAN
MONROE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
GLENN & GARNO GX888	21.2	--	--	147.4	--	--	7.3	--	--
GLENN & GARNO GX905	21.2	--	--	141.7	--	--	6.1	--	--
CROW'S 181	21.5	21	--	170.6	167	--	7.2	5	--
LEADER LSX480A	21.6	--	--	170.0	--	--	7.2	--	--
NORTH COAST NC2310	21.6	23	25	170.4	182	166	3.0	3	4
PIONEER 3744	21.7	22	--	165.6	164	--	1.5	4	--
*PIONEER 3475	21.7	22	--	186.4	170	--	2.3	2	--
KING K4422	21.8	--	--	142.8	--	--	3.1	--	--
GLENN & GARNO GX906	21.8	--	--	144.8	--	--	3.0	--	--
PIONEER 3737	21.9	21	23	171.3	167	163	4.6	4	4
CROW'S 199	21.9	21	22	170.9	166	157	8.1	6	5
BECK'S 51X	21.9	23	24	157.7	173	161	6.0	4	3
CARGILL 859	22.0	--	--	165.4	--	--	5.0	--	--
CARGILL 842	22.0	21	--	155.2	158	--	3.1	5	--
DEKALB-PFIZER DK484	22.1	22	23	158.8	165	157	7.3	5	5
MAUMEE VALLEY EXP.10	22.1	--	--	141.1	--	--	3.2	--	--
FUNK G-4326	22.2	23	--	162.2	166	--	5.9	4	--
RENK RK25	22.2	--	--	164.1	--	--	1.5	--	--
NORTH COAST NC2080	22.3	--	--	146.4	--	--	2.9	--	--
CROW'S 212	22.4	23	--	141.4	147	--	1.5	1	--
P-A-G 130409	22.5	--	--	153.7	--	--	7.5	--	--
PRO-SEED HL-2727A	22.5	23	--	171.6	177	--	4.3	2	--
COUNTRYMARK C454X	22.6	--	--	171.1	--	--	3.8	--	--
MAUMEE VALLEY MV-630	22.6	--	--	163.6	--	--	1.5	--	--
PRO-SEED HL-2454	22.6	--	--	179.9	--	--	8.0	--	--
GLENN & GARNO GX905	22.6	--	--	166.0	--	--	7.8	--	--
GREAT LAKES GL-547	22.7	22	24	173.7	176	167	5.4	4	4
PAYMASTER 2990	22.7	23	24	174.8	176	167	5.3	4	4
KING K416	22.7	--	--	166.9	--	--	9.5	--	--
KING K4484	22.7	23	--	179.7	184	--	4.5	3	--
RENK RK64	22.7	23	25	167.2	180	163	12.0	7	7
RENK RK26	22.8	--	--	157.8	--	--	5.1	--	--
CROW'S 442	22.8	--	--	180.6	--	--	6.0	--	--
GOLDEN HARVEST EX564	22.8	--	--	182.7	--	--	4.8	--	--
GLENN & GARNO GX944	22.8	--	--	159.3	--	--	8.1	--	--
PAYMASTER 4790	22.9	23	--	154.2	166	--	3.1	3	--
*KING K5574	22.9	24	--	201.3	198	--	1.5	1	--
MAUMEE VALLEY EXP. 2	22.9	--	--	152.8	--	--	2.9	--	--
RENK R148	22.9	--	--	174.8	--	--	5.3	--	--
RUPP XR1639	22.9	23	25	176.5	159	150	8.5	5	4
ANDERSONS PSX99	22.9	--	--	142.1	--	--	6.3	--	--
GOLDEN HARVEST H-2480	22.9	23	25	156.2	154	150	3.6	3	3
GREAT LAKES GL-579	23.0	23	25	185.7	184	167	6.2	3	3
MAUMEE VALLEY MV-611	23.0	--	--	174.7	--	--	5.4	--	--
CARGILL 889	23.0	23	24	163.6	166	162	3.7	5	4
ANDERSONS PSX103E	23.0	--	--	153.8	--	--	6.2	--	--
ASGROW/O'S GOLD 6880	23.0	--	--	167.0	--	--	7.6	--	--
SOHIGRO S-41	23.0	--	--	181.0	--	--	3.8	--	--
*SOHIGRO S-40	23.0	24	--	187.4	175	--	6.1	3	--
FUNK G-4428	23.1	--	--	174.7	--	--	1.5	--	--

(continued below)

TABLE 1 (CONTINUED)

SOUTHERN MICHIGAN
MONROE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
*RENK RK76	24.0	26	27	208.1	200	171	6.2	3	4
ANDERSONS PSX107E	24.0	--	--	164.4	--	--	9.8	--	--
*CROW'S 488	24.1	25	27	186.0	184	168	1.5	2	2
*P-A-G SX269	24.2	--	--	189.8	--	--	2.6	--	--
COUNTRYMARK C525X	24.2	--	--	154.1	--	--	6.2	--	--
PRO-SEED HL-2823	24.2	26	--	182.4	184	--	4.3	3	--
ASGROW/O'S GOLD 6882	24.2	--	--	158.2	--	--	3.8	--	--
*GREAT LAKES 5922	24.2	24	26	193.6	188	175	2.8	3	2
*FUNK 4093X	24.3	--	--	187.4	--	--	1.4	--	--
*LEADER SX575	24.3	26	27	194.3	194	169	3.8	4	4
*NORTH COAST NC2340	24.3	25	27	198.7	177	167	3.8	3	3
CARGILL 918	24.3	--	--	169.8	--	--	6.1	--	--
DAIRYLAND DX1013	24.3	24	--	156.4	150	--	2.9	1	--
*RENK RK68	24.3	--	--	194.5	--	--	5.1	--	--
COUNTRYMARK C565X	24.4	--	--	162.9	--	--	2.2	--	--
SELECT 4701	24.4	24	--	160.7	171	--	4.8	3	--
MC CURDY M5990	24.4	--	--	158.6	--	--	3.1	--	--
*VORIS V2491	24.4	26	28	196.1	184	174	1.5	2	2
*VORIS V2515	24.4	--	--	190.0	--	--	1.5	--	--
GLENN & GARNO GX1009	24.4	--	--	161.4	--	--	3.9	--	--
*NORTH COAST NC2515	24.5	--	--	187.6	--	--	7.2	--	--
KING EXP.647	24.5	--	--	183.2	--	--	3.8	--	--
CALLAHAN C754	24.5	25	--	150.4	159	--	11.9	2	--
PAYMASTER 6127	24.5	--	--	152.0	--	--	9.8	--	--
STAUFFER SEEDS S6596	24.6	24	--	169.6	173	--	5.3	8	--
P-A-G SX297	24.6	--	--	168.6	--	--	4.6	--	--
*COKER 8601	24.6	--	--	193.5	--	--	8.3	--	--
ANDERSONS PSX110	24.6	--	--	163.4	--	--	4.4	--	--
SOHIGRO S-1060	24.6	--	--	156.8	--	--	3.9	--	--
NORTRUP KING PX9527	24.7	--	--	181.9	--	--	5.0	--	--
BECK'S 60X	24.7	23	26	152.5	158	150	4.6	6	4
LYNKS LX4304	24.9	--	--	174.1	--	--	2.9	--	--
SOHIGRO S-48	24.9	26	--	175.3	182	--	1.5	1	--
*SUPER CROST 4304	25.0	25	26	201.0	197	173	4.1	3	4
GRIES X-665	25.0	--	--	176.7	--	--	3.6	--	--
COKER 8575	25.0	--	--	154.7	--	--	8.8	--	--
DAIRYLAND DX1012	25.0	24	25	173.3	173	154	2.4	2	2
KING K596	25.1	--	--	176.6	--	--	3.0	--	--
PAYCO SX847	25.1	--	--	157.0	--	--	9.0	--	--
COUNTRYMARK C677X	25.2	--	--	170.3	--	--	7.2	--	--
COUNTRYMARK C733X	25.2	--	--	159.3	--	--	6.5	--	--
NORTRUP KING PX9540	25.3	--	--	170.3	--	--	6.7	--	--
*BECK'S 64XA	25.3	--	--	193.0	--	--	7.4	--	--
CARDINAL 3590	25.4	25	--	157.8	159	--	6.4	4	--
BECK'S 56X	25.4	--	--	158.2	--	--	0.7	--	--
*GREAT LAKES GL-599	25.5	--	--	188.9	--	--	3.7	--	--
P-A-G 132071	25.6	--	--	177.3	--	--	5.8	--	--
STAUFFER SEEDS S7751	25.7	--	--	163.9	--	--	8.4	--	--
GOLDEN HARVEST H-2572	25.7	26	--	172.0	175	--	3.0	2	--
SELECT 5040	25.8	--	--	172.4	--	--	3.7	--	--

(continued below)

GARNO S-97X	23.1	--	--	166.5	--	--	3.0	--	--
JACQUES EXP. 5104	23.1	--	--	160.5	--	--	5.2	--	--
NORTHTRUP KING PX9385	23.1	--	--	155.3	--	--	0.7	--	--
NORTH COAST NC2320	23.1	23	25	178.3	182	167	4.1	5	5
PRIDE 6656	23.1	--	--	177.5	--	--	6.6	--	--
PAYMASTER 4587	23.1	--	--	151.4	--	--	8.8	--	--
SELECT 3720	23.1	24	25	177.4	186	160	5.2	3	3
CARGILL 874	23.1	24	--	177.2	172	--	6.0	4	--
RUPP EXP.504	23.1	--	--	145.5	--	--	3.0	--	--
PICKSEED 8895	23.1	23	--	147.2	146	--	3.1	2	--
*DEKALB-PFIZER DK572	23.2	--	--	187.9	--	--	6.6	--	--
SUPER CROST 2989	23.2	--	--	180.2	--	--	4.5	--	--
GARNO S-100X	23.2	24	--	181.0	179	--	4.3	4	--
JACQUES 7700	23.2	24	25	180.4	186	168	3.7	3	3
*PIONEER 3540	23.2	23	25	193.1	188	173	1.5	1	1
*PAYMASTER 6347	23.2	--	--	189.6	--	--	5.8	--	--
RENK RK60	23.2	23	25	160.6	167	158	3.0	2	2
RUPP XR1555	23.2	--	--	167.7	--	--	4.5	--	--
CROW'S 344	23.2	--	--	166.3	--	--	2.2	--	--
*FARMERS FCC 4255	23.2	--	--	199.4	--	--	5.4	--	--
CALLAHAN C747	23.2	23	--	161.5	170	--	12.0	6	--
NORTH COAST NC2205	23.3	24	25	180.6	171	155	4.5	2	2
KING K4464	23.3	--	--	154.1	--	--	3.9	--	--
MAUMEE VALLEY MV-762	23.3	--	--	176.4	--	--	3.8	--	--
PRO-SEED HL-2830	23.3	--	--	152.6	--	--	3.8	--	--
SOHIGRO S-35	23.3	24	--	164.7	167	--	5.3	3	--
*FUNK G-4440	23.4	25	27	202.6	180	167	3.1	2	3
DAIRYLAND DX1107	23.4	24	26	170.9	176	160	5.1	3	2
GLENN & GARNO GX1007	23.4	24	--	180.5	180	--	2.2	3	--
GRIES X-580	23.5	24	--	175.6	177	--	3.9	3	--
GREAT LAKES 84546	23.5	--	--	178.0	--	--	6.0	--	--
MAUMEE VALLEY MV-851	23.5	--	--	157.4	--	--	3.1	--	--
VORIS V2471	23.5	24	25	167.0	166	155	3.7	4	4
STAUFFER SEEDS S5340	23.6	24	26	172.5	169	156	4.6	4	4
NORTHTRUP KING PX9470	23.6	--	--	181.9	--	--	3.1	--	--
PRO-SEED HL-2803	23.6	24	26	150.4	168	156	7.4	5	4
MC CURDY 5750	23.6	24	--	175.8	186	--	5.1	5	--
FARMERS FCC4235	23.6	--	--	155.5	--	--	3.6	--	--
DAIRYLAND DX1108	23.7	--	--	154.3	--	--	2.9	--	--
*CROW'S 444	23.7	23	25	194.5	186	165	5.8	4	4
PAYCO SX710	23.7	24	--	162.0	161	--	6.0	5	--
FUNK G-4327	23.8	--	--	169.9	--	--	3.5	--	--
*NORTH COAST NC2412	23.8	--	--	188.8	--	--	5.8	--	--
PRIDE EXP.111	23.8	--	--	167.5	--	--	0.7	--	--
PAYCO SX872	23.8	24	--	152.1	158	--	5.3	3	--
GREAT LAKES GL-585	23.9	--	--	179.4	--	--	2.9	--	--
COKER 8534	23.9	--	--	171.1	--	--	5.3	--	--
*SELECT 5188	23.9	26	--	197.4	195	--	4.7	2	--
CARGILL 222660	23.9	--	--	169.1	--	--	0.7	--	--
RUPP XR1707	23.9	24	25	158.8	172	151	4.5	3	3
STAUFFER SEEDS S5750	24.0	23	25	165.3	163	151	9.4	6	5
P-A-G 133037	24.0	--	--	156.0	--	--	5.4	--	--
*PIONEER 3352	24.0	--	--	186.6	--	--	3.6	--	--
*PRIDE 7705	24.0	26	--	207.4	195	--	5.2	4	--
SELECT 4144	24.0	25	27	181.1	171	166	1.5	1	2

(continued top right)

GOLDEN HARVEST H-2604	25.9	27	--	177.1	168	--	4.6	3	--
*GOLDEN HARVEST H-2535	26.0	25	28	186.0	192	177	4.7	4	4
*SELECT EXP.872	26.1	--	--	198.5	--	--	1.6	--	--
*ASGROW/O'S GOLD 2545	26.1	27	28	200.4	188	171	5.2	4	2
MC CURDY 7384	26.2	27	--	183.1	179	--	1.4	3	--
*DAIRYLAND DX1017	26.7	27	28	205.8	187	167	2.2	2	2
AVERAGE	23.7	24	25	170.3	174	163	4.6	3	3
RANGE	21.2	21	22	141.2	146	150	0.7	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	26.7	27	28	208.1	200	177	12.0	8	7
LEAST SIGNIFICANT DIFFERENCE	1.5	1.1	0.7	15.6	8	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 5	MAY 5	MAY 11
HARVESTED	OCTOBER 28	OCTOBER 26	NOVEMBER 7
SOIL TYPE	BROOKSTON LOAM	BROOKSTON LOAM	GRIFFIN SANDY LOAM
PREVIOUS CROP	WHEAT	WHEAT-CLOVER SOD	CORN
POPULATION	21,800	22,100	21,500
ROWS	30"	30"	30"
FERTILIZER	170-68-90	220-72-240	176-104-160
SOIL TEST: PH	6.8	6.3	6.2
P	97(HIGH)	218(VERY HIGH)	164(VERY HIGH)
K	128(LOW)	435(VERY HIGH)	424(VERY HIGH)

FARM COOPERATOR: GERALD HEATH, MILAN (1986, 1985); ORVILLE MONTRI, LA SALLE (1984)

COUNTY AGRICULTURAL AGENT: DAVID PRATT, MONROE

TABLE 2

SOUTHERN MICHIGAN
HILLSDALE COUNTY TRIAL - IRRIGATED
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
GLENN & GARNO GX888	19.9	--	--	130.9	--	--	10.3	--	--
PAYCO SX500	20.1	--	--	123.5	--	--	11.6	--	--
GLENN & GARNO GX944	20.5	--	--	138.0	--	--	4.3	--	--
PAYCO SX620	21.0	20	21	143.6	146	138	14.6	10	8
CROW'S 181	21.1	19	21	126.8	126	125	2.9	4	3
BETASEED KRISTINE	21.3	--	--	119.1	--	--	4.5	--	--
KING K4422	21.4	--	--	129.3	--	--	5.5	--	--
GLENN & GARNO GX905	21.4	--	--	119.5	--	--	5.3	--	--
MAUMEE VALLEY MV-630	21.5	--	--	119.3	--	--	7.8	--	--
CROW'S 199	21.5	20	22	152.3	154	148	5.9	4	4
KING K416	21.6	--	--	147.5	--	--	3.8	--	--
CARGILL 859	21.6	20	--	157.6	156	--	5.3	3	--
NORTH COAST NC2080	21.7	--	--	133.0	--	--	6.5	--	--
MAUMEE VALLEY MV-611	21.7	--	--	121.4	--	--	6.6	--	--
FUNK G-4312	21.8	20	--	147.1	159	--	10.0	5	--
NORTHTRUP KING PX9385	21.9	--	--	143.9	--	--	2.2	--	--
COUNTRYMARK C454X	22.0	--	--	127.9	--	--	4.6	--	--
PIONEER 3744	22.1	21	23	161.8	164	158	11.9	7	4
MAUMEE VALLEY EXP.10	22.1	--	--	121.2	--	--	3.5	--	--
*GOLDEN HARVEST H-2424	22.1	--	--	166.7	--	--	6.8	--	--
FUNK G-4327	22.2	--	--	142.2	--	--	7.0	--	--
*LEADER LSX530	22.2	22	24	172.8	176	168	2.2	1	2
PIONEER 3737	22.2	21	23	137.6	143	141	6.5	5	4
PAYCO SX872	22.2	23	--	162.0	158	--	5.3	3	--
GLENN & GARNO GX906	22.2	--	--	126.0	--	--	4.7	--	--
MAUMEE VALLEY EXP.2	22.4	--	--	139.9	--	--	3.1	--	--
STANTON SX100	22.4	--	--	144.9	--	--	7.9	--	--
*FUNK G-4428	22.5	--	--	167.6	--	--	3.1	--	--
GREAT LAKES GL-540	22.5	22	--	152.5	151	--	5.8	5	--
NORTH COAST NC2310	22.5	22	24	135.7	148	145	8.2	6	4
CROW'S 212	22.5	21	--	162.4	156	--	1.5	2	--
GREAT LAKES GL-547	22.6	--	--	156.1	--	--	3.6	--	--
MAUMEE VALLEY MV-762	22.6	--	--	159.1	--	--	7.1	--	--
*CARGILL 889	22.6	21	24	166.6	164	157	8.1	5	4
RUPP EXP.504	22.6	--	--	156.7	--	--	5.3	--	--
STAUFFER SEEDS S5750	22.7	--	--	134.7	--	--	10.2	--	--
GLENN & GARNO GX988	22.7	--	--	140.5	--	--	4.6	--	--
CROW'S 442	22.8	--	--	140.3	--	--	4.5	--	--
*DEKALB-PFIZER DK547	22.9	--	--	170.6	--	--	4.9	--	--
WOLVERINE W174A	22.9	22	23	144.2	139	137	7.0	4	4
KING K4484	22.9	22	--	148.6	147	--	5.7	4	--
*GLENN & GARNO GX1007	22.9	23	--	172.1	174	--	10.9	6	--
FARMERS FCC4255	22.9	--	--	137.8	--	--	6.2	--	--
FUNK G-4326	23.0	22	24	146.9	152	155	4.4	3	3
GARNO S-97X	23.0	--	--	162.6	--	--	3.6	--	--
KING K4464	23.0	22	24	159.9	168	155	5.4	3	2
CARGILL 130409	23.0	--	--	151.7	--	--	6.5	--	--
*GREAT LAKES GL-579	23.1	23	--	170.6	177	--	3.8	3	--
*NORTHTRUP KING PX9470	23.1	--	--	165.9	--	--	2.3	--	--
LYNKS LX4235	23.1	--	--	128.0	--	--	5.2	--	--

(continued below)

NORTH COAST NC2412	25.5	--	--	158.5	--	--	7.5	--	--
*DAIRYLAND DX1017	25.5	26	28	175.5	162	153	4.6	3	2
PRIDE 7705	25.6	25	--	163.9	168	--	7.2	5	--
KING EXP.647	25.6	--	--	131.9	--	--	6.0	--	--
CARGILL 874	25.6	23	25	132.0	139	142	9.3	5	5
PARKER 400	25.6	--	--	148.1	--	--	5.8	--	--
ANDERSONS PSX110	25.6	25	27	162.2	151	154	0.8	1	2
KING K596	25.7	--	--	149.3	--	--	5.7	--	--
CALLAHAN C771	25.7	--	--	146.5	--	--	5.8	--	--
DAIRYLAND DX1013	25.9	24	--	139.2	153	--	3.2	2	--
AGRIPRO HP470	26.2	25	27	141.1	144	146	4.8	3	3
NORTH COAST NC2340	26.2	25	26	138.7	144	147	6.5	3	3
P-A-G 132701	26.4	--	--	163.4	--	--	3.7	--	--
*BECK'S 64XA	26.5	--	--	195.7	--	--	2.9	--	--
COUNTRYMARK C733X	26.7	--	--	134.1	--	--	4.3	--	--
COKER 8575	26.8	--	--	150.0	--	--	8.2	--	--
BECK'S 56X	26.8	--	--	147.4	--	--	2.4	--	--
PARKER 60A	27.0	--	--	125.5	--	--	9.1	--	--
CALLAHAN C766	27.1	26	--	141.1	161	--	7.1	4	--
RUPP XR1707	27.9	25	27	128.0	145	137	4.5	3	3
AVERAGE	23.6	23	25	150.2	156	151	5.4	4	3
RANGE	19.9	19	21	119.1	126	125	0.0	1	1
	T0	T0	T0	T0	T0	T0	T0	T0	T0
	27.9	26	28	200.4	186	176	14.6	10	.8
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	0.7	14.7	10	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 2	APRIL 5	MAY 10
HARVESTED	OCTOBER 29	OCTOBER 25	OCTOBER 17
SOIL TYPE	HILLSDALE-RIDDLES SANDY LOAM	HILLSDALE-RIDDLES SANDY LOAM	HILLSDALE-RIDDLES SANDY LOAM
PREVIOUS CROP	CORN	CORN	SOYBEANS
POPULATION	22,000	21,900	21,200
ROWS	30"	30"	30"
FERTILIZER	183-46-62	237-52-52	162-52-262
SOIL TEST: PH	6.3	6.8	6.6
P	196(VERY HIGH)	256(VERY HIGH)	240(VERY HIGH)
K	177(MEDIUM)	409(VERY HIGH)	295(HIGH)
IRRIGATION:	2.75 INCHES	4.5 INCHES	11 INCHES

FARM COOPERATOR: RICHARD GODFREY, JONESVILLE

EXTENSION FIELD CROPS AGENT: NATALIE RECTOR, MARSHALL

COUNTY EXTENSION DIRECTOR: JIM PELHAM, HILLSDALE

GOLDEN HARVEST H-2480	23.1	22	25	150.4	147	148	8.9	6	4
AGRIPRO AP391	23.2	23	--	139.7	139	--	5.0	4	--
AGRIPRO 680	23.2	--	--	154.9	--	--	3.6	--	--
JACQUES 7700	23.3	23	25	150.6	166	162	5.3	4	3
CROW'S 444	23.3	--	--	142.3	--	--	5.2	--	--
JACQUES 7750	23.4	--	--	153.8	--	--	5.8	--	--
NORTH COAST NC2205	23.4	22	25	135.6	130	129	3.8	2	2
DEKALB-PFIZER DK572	23.5	--	--	146.8	--	--	3.1	--	--
*PIONEER 3475	23.5	23	--	179.8	186	--	5.9	3	--
COKER 8534	23.5	--	--	146.0	--	--	7.0	--	--
COUNTRYMARK C565X	23.5	--	--	155.1	--	--	2.9	--	--
GRIES X-580	23.6	23	--	137.7	144	--	5.1	5	--
DAIRYLAND DX1107	23.6	23	25	162.0	172	158	8.3	5	4
RUPP XR1690	23.6	22	25	151.3	140	146	5.9	3	3
*GOLDEN HARVEST EX564	23.6	--	--	176.7	--	--	7.6	--	--
ASGROW/O'S GOLD 2450	23.7	--	--	144.5	--	--	7.9	--	--
FARMERS FCC4235	23.7	--	--	132.5	--	--	10.5	--	--
CALLAHAN C754	23.7	23	--	130.9	141	--	4.5	3	--
*GARNO S-100X	23.8	23	--	169.0	176	--	5.8	4	--
*PIONEER 3540	23.8	23	24	166.8	170	165	2.9	1	2
KING K5574	23.8	23	--	159.8	161	--	4.5	4	--
*GLENN & GARNO GX1009	23.8	--	--	180.3	--	--	1.4	--	--
*BECK'S 51X	23.8	23	25	165.3	159	158	2.9	2	3
GREAT LAKES 84546	23.9	--	--	127.9	--	--	6.3	--	--
PRIDE 6656	23.9	--	--	148.9	--	--	7.1	--	--
CROW'S 344	23.9	--	--	145.2	--	--	5.3	--	--
*NORTHROP KING PX9540	24.1	25	--	176.1	157	--	6.1	3	--
RUPP XR1639	24.2	24	25	156.0	169	157	7.5	5	4
*GREAT LAKES 5922	24.2	24	25	169.6	174	176	1.4	1	1
CARGILL 222660	24.3	--	--	146.2	--	--	8.8	--	--
SUPER CROST 2989	24.4	--	--	160.1	--	--	5.3	--	--
*COUNTRYMARK C677X	24.4	--	--	165.0	--	--	0.7	--	--
*STAUFFER SEEDS S5340	24.5	23	24	165.9	174	168	1.5	1	1
*P-A-G SX267	24.5	23	24	172.3	168	168	0.0	1	1
PRIDE EXP. 111	24.6	--	--	125.0	--	--	2.9	--	--
DAIRYLAND DX1108	24.6	--	--	148.7	--	--	5.0	--	--
ASGROW/O'S GOLD 6882	24.7	--	--	145.7	--	--	5.2	--	--
ANDERSONS PSX107E	24.8	--	--	142.8	--	--	3.7	--	--
GREAT LAKES GL-585	24.9	--	--	160.1	--	--	5.1	--	--
COUNTRYMARK C525X	24.9	--	--	132.7	--	--	2.2	--	--
*P-A-G SX269	25.0	--	--	165.6	--	--	4.5	--	--
*AGRIPRO 710A	25.0	--	--	180.1	--	--	2.2	--	--
DAIRYLAND DX1012	25.0	25	27	125.5	143	137	5.1	3	2
*NORTH COAST NC2515	25.1	--	--	165.7	--	--	7.6	--	--
COKER 8601	25.2	--	--	156.2	--	--	5.2	--	--
*GOLDEN HARVEST H-2572	25.2	25	27	175.1	173	167	5.1	3	3
*SUPER CROST 4304	25.3	--	--	170.4	--	--	5.3	--	--
*CARGILL 918	25.3	--	--	182.5	--	--	6.6	--	--
PAYCO SX847	25.3	--	--	161.4	--	--	5.2	--	--
STAUFFER SEEDS S7759	25.4	--	--	153.8	--	--	3.7	--	--
MAUMEE VALLEY MV-851	25.4	--	--	142.2	--	--	4.3	--	--
RUPP XR1715	25.4	--	--	159.5	--	--	6.9	--	--
ANDERSONS PSX100	25.4	--	--	159.1	--	--	5.0	--	--
*PIONEER 3352	25.5	--	--	200.4	--	--	0.8	--	--
NORTHCOAST NC2320	25.5	23	25	132.3	128	130	8.1	4	3

(continued top right)

TABLE 3

SOUTHERN MICHIGAN
BRANCH COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	2		3	2		3	2		3
	1986	YR	YR	1986	YR	YR	1986	YR	YR
PRO-SEED HL-2454	19.0	19	--	163.2	160	--	4.7	3	--
PIONEER 3737	19.4	19	20	161.1	156	152	5.8	4	3
KING K416	19.4	--	--	154.4	--	--	8.8	--	--
KING K4422	19.7	--	--	145.7	--	--	5.0	--	--
CARGILL 859	19.7	20	--	165.2	184	--	5.0	4	--
GLENN & GARNO GX944	19.7	--	--	133.4	--	--	8.6	--	--
PAYMASTER 4587	19.8	--	--	168.8	--	--	2.9	--	--
RUPP XR1555	19.9	--	--	138.6	--	--	3.5	--	--
CROW'S 181	20.0	--	--	161.1	--	--	2.8	--	--
GOLDEN HARVEST H-2424	20.0	--	--	157.1	--	--	5.3	--	--
GLENN & GARNO GX906	20.0	--	--	133.2	--	--	3.7	--	--
COUNTRYMARK C454X	20.1	--	--	149.4	--	--	5.0	--	--
MAUMEE VALLEY MV-630	20.1	--	--	140.9	--	--	2.8	--	--
PIONEER 3744	20.2	20	21	172.7	160	153	5.1	3	3
FUNK G-4312	20.3	20	--	138.8	144	--	5.9	4	--
CROW'S 199	20.3	--	--	156.3	--	--	6.5	--	--
NORTHROP KING PX9385	20.4	--	--	170.0	--	--	0.7	--	--
PAYMASTER 2990	20.4	20	--	159.7	169	--	3.7	3	--
RENK RK25	20.4	--	--	171.1	--	--	3.8	--	--
CARGILL 842	20.5	20	--	175.5	167	--	4.9	4	--
KING K4484	20.6	21	--	148.8	157	--	5.8	3	--
MAUMEE VALLEY EXP. 10	20.6	--	--	134.6	--	--	8.1	--	--
STAUFFER SEEDS S4414	20.7	--	--	135.0	--	--	6.4	--	--
CARGILL 874	20.7	20	22	150.2	153	154	8.6	5	4
GLENN & GARNO GX888	20.7	--	--	134.1	--	--	10.1	--	--
GLENN & GARNO GX905	20.8	--	--	134.3	--	--	2.7	--	--
JACQUES 7700	20.9	21	24	175.0	177	161	4.3	3	3
MAUMEE VALLEY MV-611	20.9	--	--	135.5	--	--	1.5	--	--
RENK RK26	20.9	--	--	154.3	--	--	6.3	--	--
DEKALB-PFIZER DK484	21.0	20	22	168.4	172	156	6.3	4	3
FUNK G-4327	21.0	--	--	164.2	--	--	5.7	--	--
JACQUES EXP. 5104	21.0	--	--	165.5	--	--	8.0	--	--
PRO-SEED HL-2803	21.0	21	23	188.4	185	175	4.9	4	4
CROW'S 212	21.0	--	--	188.8	--	--	2.3	--	--
CUSTOM E94016	21.1	--	--	164.9	--	--	2.9	--	--
*PIONEER 3475	21.2	21	--	197.0	192	--	3.6	3	--
AGRIPRO AP391	21.2	--	--	159.6	--	--	5.1	--	--
GLENN & GARNO GX988	21.2	--	--	136.7	--	--	5.0	--	--
FARMERS FCC4235	21.2	--	--	171.2	--	--	0.7	--	--
PRO-SEED HL-2727A	21.3	--	--	150.5	--	--	4.5	--	--
RENK R148	21.3	--	--	164.3	--	--	3.0	--	--
CROW'S 344	21.3	--	--	181.0	--	--	4.7	--	--
CROW'S 442	21.3	--	--	172.9	--	--	3.7	--	--
GARNO S-97X	21.4	--	--	188.8	--	--	3.6	--	--
FUNK G-4428	21.5	--	--	188.9	--	--	4.4	--	--
RENK RK60	21.5	21	22	157.3	173	167	3.6	3	2
RUPP EXP. 504	21.5	--	--	169.1	--	--	5.9	--	--
LYNKS LX4102	21.5	--	--	160.0	--	--	3.6	--	--
GOLDEN HARVEST H-2480	21.5	21	23	190.1	174	166	7.1	4	3
FUNK G-4326	21.6	20	22	179.3	163	162	4.3	4	3

(continued next page)

TABLE 3 (CONTINUED)

SOUTHERN MICHIGAN
BRANCH COUNTY TRIAL

ZONE 1

ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
MAUMEE VALLEY EXP.2	21.6	--	--	156.2	--	--	2.9	--	--
CARGILL 889	21.6	21	22	180.0	181	174	3.4	3	4
RENK RK64	21.6	21	23	189.3	182	176	5.8	4	3
P-A-G 133037	21.7	--	--	144.1	--	--	5.0	--	--
SELECT 3720	21.7	22	23	181.7	189	174	3.6	2	2
SELECT 4701	21.7	21	--	177.0	190	--	5.2	3	--
*CROW'S 444	21.7	--	--	197.3	--	--	4.4	--	--
GOLDEN HARVEST EX564	21.7	--	--	191.3	--	--	3.0	--	--
*BECK'S 49X	21.7	22	24	199.9	196	177	2.2	1	2
*DEKALB-PFIZER DK572	21.8	--	--	192.2	--	--	2.1	--	--
AGRIPRO 680	21.8	--	--	185.5	--	--	4.9	--	--
COKER 8534	21.8	--	--	155.4	--	--	6.2	--	--
*RUPP XR1639	21.8	22	23	199.6	201	187	4.2	2	1
PAYCO SX860	21.8	22	24	158.3	176	169	2.8	3	2
*PIONEER 3540	21.9	21	23	192.7	177	171	1.4	2	1
PRIDE EXP.111	21.9	--	--	139.6	--	--	4.0	--	--
*COUNTRYMARK C565X	21.9	--	--	207.0	--	--	4.3	--	--
*ANDERSONS PSX107E	21.9	--	--	192.4	--	--	2.1	--	--
STANTON SX100	21.9	--	--	173.1	--	--	3.5	--	--
FARMERS FCC4255	21.9	--	--	181.9	--	--	4.5	--	--
*GARNO S-100X	22.0	22	--	193.3	190	--	5.1	4	--
NORTHROP KING PX9470	22.0	--	--	186.1	--	--	1.5	--	--
DAIRYLAND DX1108	22.0	--	--	147.5	--	--	2.7	--	--
PAYCO SX710	22.0	21	--	150.4	158	--	5.0	3	--
*GREAT LAKES GL-579	22.1	22	23	194.6	195	184	2.9	2	2
*ASGROW/O'S GOLD RX717	22.1	22	--	201.2	191	--	2.3	2	--
PAYMASTER 6127	22.1	--	--	186.4	--	--	4.4	--	--
*PAYMASTER 6347	22.1	--	--	203.9	--	--	5.9	--	--
KING K4464	22.1	22	23	165.5	156	150	2.9	1	1
RENK RK68	22.1	--	--	175.1	--	--	4.9	--	--
RUPP XR1690	22.1	21	22	174.4	171	166	2.9	2	2
*GLENN & GARNO GX1007	22.1	22	--	192.6	189	--	3.6	2	--
STAUFFER SEEDS S5750	22.2	--	--	165.8	--	--	5.6	--	--
COUNTRYMARK C525X	22.2	--	--	170.1	--	--	3.0	--	--
DAIRYLAND DX1012	22.2	22	24	182.3	184	174	5.8	4	2
*GOLDEN HARVEST H-2572	22.2	23	24	217.4	198	180	4.4	4	3
*CUSTOM 6203	22.2	22	--	205.6	192	--	6.7	4	--
*MAUMEE VALLEY MV-762	22.3	--	--	196.7	--	--	6.6	--	--
SUPER CROST 2989	22.4	22	--	189.3	189	--	3.0	2	--
GREAT LAKES 84546	22.4	--	--	177.3	--	--	6.1	--	--
P-A-G SX267	22.4	22	23	189.1	175	169	2.9	5	4
*PIONEER 3352	22.4	--	--	212.7	--	--	1.4	--	--
*AGRIPRO 710A	22.4	--	--	192.6	--	--	2.9	--	--
KING K5574	22.4	22	--	187.4	177	--	4.9	4	--
MAUMEE VALLEY MV-851	22.4	--	--	184.7	--	--	5.8	--	--
PAYCO SX847	22.4	--	--	181.2	--	--	4.3	--	--
STAUFFER SEEDS S5310	22.5	22	23	187.9	187	183	2.8	1	2
ANDERSONS PSX103E	22.5	--	--	180.5	--	--	9.5	--	--
BECK'S 56X	22.5	--	--	162.9	--	--	2.3	--	--
*CARGILL 222660	22.6	--	--	205.7	--	--	2.2	--	--

(continued below)

TABLE 3 (CONTINUED)

SOUTHERN MICHIGAN
BRANCH COUNTY TRIAL

ZONE 1

ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
AVERAGE	22.0	22	23	176.5	181	172	4.3	3	3
RANGE	19.0	19	20	133.2	144	150	0.7	1	1
	25.1	24	26	217.4	207	192	10.1	5	4
LEAST SIGNIFICANT DIFFERENCE	1.5	1.1	0.9	15.4	10	7	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 8	APRIL 29	MAY 12
HARVESTED	OCTOBER 29	OCTOBER 24-25	OCTOBER 18
SOIL TYPE	GILFORD SANDY LOAM	GILFORD SANDY LOAM	GILFORD SANDY LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	22,000	22,100	21,700
ROWS	30"	30"	30"
FERTILIZER	36-92-120	209-74-0	174-83-0
SOIL TEST: PH	5.6	6.5	6.5
P	350(VERY HIGH)	240(VERY HIGH)	261(VERY HIGH)
K	211(MEDIUM)	200(MEDIUM)	211(MEDIUM)

FARM COOPERATOR: DAVID LABAR, UNION CITY

EXTENSION FIELD CROPS AGENT: NATALIE RECTOR, MARSHALL

COUNTY EXTENSION DIRECTOR: RAY FAST, COLDWATER

ANDERSONS PSX110	22.6	22	--	181.7	171	--	4.4	4	--
*PRIDE 6656	22.7	--	--	198.0	--	--	2.3	--	--
*PAYMASTER 4790	22.7	22	24	200.3	189	176	4.4	3	4
*DAIRYLAND DX1107	22.8	22	24	197.6	201	182	5.2	4	3
*BECK'S 63X	22.8	23	25	203.0	191	182	2.9	2	2
CALLAHAN C754	22.8	22	--	185.8	173	--	2.8	2	--
*AGRIPRO AP510	22.9	23	--	212.3	196	--	3.0	2	--
SELECT 4800	22.9	22	24	180.0	181	178	2.1	3	3
CARGILL 130409	22.9	--	--	166.6	--	--	7.4	--	--
*ASGROW/O'S GOLD 6882	22.9	23	25	197.5	195	184	3.6	3	2
GOLDEN HARVEST H-2535	22.9	23	25	182.4	186	172	5.1	4	3
CUSTOM W7651	22.9	--	--	145.8	--	--	3.6	--	--
CALLAHAN C766	22.9	23	--	169.2	175	--	2.1	3	--
*P-A-G SX269	23.1	23	--	192.9	189	--	3.6	3	--
PRO-SEED HL-2830	23.1	22	--	139.8	150	--	6.3	4	--
*CARGILL 918	23.1	--	--	202.4	--	--	1.4	--	--
PARKER 60A	23.1	--	--	171.5	--	--	6.6	--	--
GLENN & GARNO GX1009	23.1	--	--	183.4	--	--	1.4	--	--
*CUSTOM 7501	23.1	--	--	195.5	--	--	3.0	--	--
*SUPER CROST 4304	23.2	23	25	193.9	201	192	2.1	4	3
*GREAT LAKES GL-585	23.2	--	--	192.2	--	--	3.6	--	--
COUNTRYMARK C733X	23.2	--	--	183.6	--	--	4.4	--	--
SELECT 4144	23.2	--	--	173.4	--	--	2.9	--	--
SELECT 5040	23.2	24	25	180.4	187	178	3.0	2	2
DAIRYLAND DX1013	23.3	22	--	183.9	175	--	4.3	3	--
*BECK'S 65X	23.3	24	26	201.3	198	186	4.4	3	2
*PRIDE 7705	23.4	24	--	209.4	199	--	2.3	2	--
*BECK'S 64XA	23.4	--	--	217.3	--	--	2.2	--	--
*P-A-G SX310	23.6	--	--	207.2	--	--	3.6	--	--
AGRIPRO HP470	23.6	23	25	188.0	185	173	4.9	4	4
PRO-SEED HL-2823	23.6	--	--	170.3	--	--	2.2	--	--
RUPP XR1715	23.6	--	--	181.2	--	--	5.1	--	--
*NORTHROP KING PX9527	23.7	23	--	211.9	207	--	2.8	3	--
*NORTHROP KING PX9540	23.7	24	--	210.6	202	--	6.8	3	--
KING K596	23.8	--	--	178.1	--	--	2.9	--	--
COUNTRYMARK C677X	23.8	--	--	165.8	--	--	4.3	--	--
COKE 8601	23.9	--	--	158.0	--	--	4.8	--	--
KING EXP.647	24.1	--	--	185.4	--	--	2.3	--	--
COKE 8575	24.2	--	--	191.6	--	--	3.5	--	--
*RENK RK76	24.2	24	25	200.3	196	180	3.7	3	2
DAIRYLAND DX1017	24.6	24	26	190.7	183	175	5.0	4	2
*STAUFFER SEEDS S7759	25.1	--	--	205.0	--	--	5.2	--	--

(continued top right)

TABLE 4

SOUTHERN MICHIGAN
KALAMAZOO COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
GLENN & GARNO GX888	19.2	--	--	115.9	--	--	4.2	--	--
PAYCO SX620	19.8	21	22	127.1	119	95	3.6	3	4
GOLDEN HARVEST H-2344	20.0	--	--	131.0	--	--	25.2	--	--
KING K416	20.4	21	--	142.9	121	--	23.1	13	--
CARGILL 842	20.5	23	--	159.9	127	--	2.1	1	--
PAYCO SX611	20.5	--	--	132.4	--	--	2.8	--	--
PIONEER 3744	20.6	23	--	150.7	139	--	0.0	0	--
KING K4422	20.6	22	23	129.5	107	92	2.1	1	3
GLENN & GARNO GX905	20.6	--	--	139.3	--	--	1.5	--	--
PAYMASTER 4587	20.7	--	--	151.1	--	--	3.5	--	--
GLENN & GARNO GX944	20.7	--	--	150.6	--	--	1.6	--	--
RUPP XR1555	20.8	--	--	122.1	--	--	2.1	--	--
P-A-G 223229	20.9	--	--	155.1	--	--	1.4	--	--
PAYMASTER 2890	21.0	23	24	145.8	125	102	4.2	3	4
STAUFFER SEEDS S4414	21.1	--	--	116.7	--	--	1.5	--	--
FUNK G-4211	21.1	--	--	131.1	--	--	15.6	--	--
*FUNK G-4312	21.1	23	--	166.0	138	--	3.6	2	--
FUNK 2034X	21.2	--	--	128.8	--	--	16.5	--	--
FUNK G-4296	21.2	--	--	135.5	--	--	5.0	--	--
WOLVERINE W168	21.2	22	--	130.9	123	--	2.9	2	--
PIONEER 3737	21.3	23	24	138.1	129	111	2.9	2	6
PAYMASTER 2990	21.3	24	24	145.0	131	105	2.1	1	4
MAUMEE VALLEY MV-611	21.3	--	--	140.7	--	--	3.5	--	--
DAIRYLAND DX1105	21.3	24	26	150.1	134	107	7.9	5	5
GREAT LAKES GL-498	21.4	23	--	147.3	131	--	3.1	2	--
*NORTHROP KING PX39	21.4	24	26	165.8	147	125	0.7	2	2
COUNTRYMARK C454X	21.4	--	--	124.9	--	--	3.8	--	--
GLENN & GARNO GX906	21.4	--	--	123.5	--	--	7.5	--	--
FUNK G-4327	21.5	--	--	152.5	--	--	1.4	--	--
MAUMEE VALLEY MV-630	21.5	--	--	150.3	--	--	2.2	--	--
MAUMEE VALLEY EXP.10	21.5	--	--	128.9	--	--	25.9	--	--
GLENN & GARNO GX988	21.6	--	--	126.4	--	--	0.7	--	--
GARNO S-97X	21.7	--	--	142.7	--	--	2.9	--	--
BECK'S 49X	21.8	23	25	139.0	130	117	3.5	2	1
FUNK G-4428	21.9	--	--	152.4	--	--	5.1	--	--
KING K4484	21.9	25	--	137.6	128	--	0.0	1	--
MAUMEE VALLEY EXP.2	21.9	--	--	122.8	--	--	3.8	--	--
ANDERSONS PSX99	21.9	--	--	159.8	--	--	2.2	--	--
ANDERSONS PSX103E	21.9	--	--	144.4	--	--	3.8	--	--
*NORTHROP KING PX9385	22.0	--	--	168.8	--	--	0.0	--	--
*PIONEER 3475	22.0	25	--	168.5	153	--	0.0	0	--
AGRIPRO AP391	22.0	--	--	131.9	--	--	0.0	--	--
KING K4464	22.0	--	--	141.0	--	--	3.6	--	--
*MAUMEE VALLEY MV-762	22.0	--	--	166.2	--	--	2.1	--	--
STAUFFER SEEDS S5340	22.1	24	25	140.8	119	103	1.4	2	4
COUNTRYMARK C565X	22.1	--	--	130.3	--	--	6.0	--	--
RUPP XR1639	22.1	24	26	141.1	122	110	1.4	3	5
PAYCO SX872	22.1	--	--	155.5	--	--	4.8	--	--
RUPP EXP.504	22.3	--	--	122.9	--	--	0.7	--	--
WOLVERINE W174A	22.4	24	--	134.9	114	--	2.1	1	--

(continued next page)

TABLE 4 (CONTINUED)

SOUTHERN MICHIGAN
KALAMAZOO COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
*GREAT LAKES GL-579	22.5	24	26	169.0	152	130	2.9	3	4
AGRIPRO 680	22.5	--	--	142.9	--	--	2.1	--	--
DAIRYLAND DX1108	22.5	--	--	141.7	--	--	3.0	--	--
PICKSEED 8898	22.5	24	--	144.1	137	--	5.2	3	--
SELECT 3720	22.6	25	26	154.6	132	118	2.9	1	3
CROW'S 442	22.6	--	--	122.5	--	--	2.3	--	--
*GLENN & GARNO GX1007	22.6	25	--	164.9	146	--	2.1	2	--
DEKALB-PFIZER DK547	22.7	--	--	154.7	--	--	2.1	--	--
JACQUES 7750	22.7	--	--	136.6	--	--	4.3	--	--
DAIRYLAND DX1005	22.7	--	--	152.5	--	--	1.4	--	--
GREAT LAKES 84546	22.8	--	--	145.7	--	--	2.2	--	--
DAIRYLAND DX1107	22.8	25	26	144.0	137	114	4.4	3	3
CROW'S 344	22.8	--	--	133.1	--	--	3.5	--	--
*DEKALB-PFIZER DK572	22.9	--	--	166.7	--	--	0.7	--	--
GARNO S-100X	22.9	25	--	163.5	145	--	3.7	6	--
JACQUES 7700	22.9	25	26	134.7	117	104	2.1	2	3
P-A-G 133037	22.9	--	--	161.0	--	--	3.6	--	--
*PIONEER 3540	22.9	24	25	166.2	144	123	1.4	1	2
KING K5574	22.9	25	--	150.6	136	--	3.5	2	--
*CARGILL 889	22.9	25	26	182.8	141	124	2.8	3	4
CARGILL 893	22.9	--	--	145.8	--	--	4.2	--	--
RUPP XR1690	22.9	--	--	149.7	--	--	4.2	--	--
PAYMASTER 6127	23.0	--	--	134.9	--	--	3.4	--	--
*CARGILL 222660	23.0	--	--	191.0	--	--	3.5	--	--
*CROW'S 488	23.1	--	--	164.4	--	--	4.9	--	--
*P-A-G SX269	23.2	--	--	184.9	--	--	2.1	--	--
*PIONEER 3352	23.2	--	--	168.6	--	--	1.4	--	--
CARGILL 130409	23.2	--	--	157.1	--	--	3.6	--	--
GOLDEN HARVEST H-2465	23.2	--	--	158.3	--	--	0.0	--	--
STAUFFER SEEDS S6596	23.3	--	--	149.3	--	--	2.9	--	--
*SUPER CROST 2989	23.3	25	--	166.1	131	--	3.4	2	--
*AGRIPRO HP470	23.4	--	--	194.3	--	--	0.7	--	--
COUNTRYMARK C525X	23.4	--	--	134.3	--	--	1.6	--	--
COUNTRYMARK C677X	23.4	--	--	160.7	--	--	2.2	--	--
GLENN & GARNO GX1009	23.4	--	--	157.3	--	--	0.7	--	--
SELECT 4800	23.5	--	--	161.3	--	--	3.0	--	--
AGRIPRO AP510	23.9	26	--	148.1	124	--	0.7	1	--
BECK'S 56X	23.9	--	--	139.4	--	--	1.4	--	--
ANDERSONS PSX107E	24.0	--	--	160.6	--	--	0.7	--	--
BECK'S 64XA	24.0	--	--	194.1	--	--	0.0	--	--
*AGRIPRO 710A	24.1	--	--	187.3	--	--	0.0	--	--
SUPER CROST 4304	24.2	27	28	144.9	129	106	4.8	3	3
SELECT 5040	24.3	27	28	152.6	138	119	1.6	2	2
*GOLDEN HARVEST H-2572	24.3	27	28	164.4	148	130	0.7	1	3
*GREAT LAKES GL-585	24.4	--	--	170.3	--	--	2.2	--	--
MAUMEE VALLEY MV-851	24.4	--	--	142.6	--	--	1.4	--	--
KING K596	24.6	--	--	139.8	--	--	3.5	--	--
COUNTRYMARK C733X	24.6	--	--	142.2	--	--	2.8	--	--
ASGROW/O'S GOLD 6882	24.6	27	28	161.3	134	111	4.5	3	2
SELECT 4144	24.9	27	--	150.4	136	--	2.8	1	--

(continued below)

TABLE 5

SOUTHERN MICHIGAN
CASS COUNTY TRIAL - IRRIGATED
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
PAYCO SX611	20.0	--	--	136.6	--	--	4.2	--	--
KING 4422	20.1	--	--	128.6	--	--	2.2	--	--
GLENN & GARNO GX888	20.2	--	--	143.0	--	--	3.7	--	--
RUPP XR1555	20.4	--	--	121.2	--	--	0.7	--	--
PIONEER 3744	20.9	21	--	157.5	168	--	2.1	2	--
PIONEER 3737	20.9	21	22	154.1	169	164	1.9	2	3
CARGILL 842	21.1	21	--	158.0	172	--	4.8	2	--
GLENN & GARNO GX944	21.2	--	--	154.5	--	--	0.7	--	--
COUNTRYMARK C454X	21.3	--	--	140.5	--	--	1.6	--	--
GLENN & GARNO GX906	21.4	--	--	124.9	--	--	2.9	--	--
DEKALB-PFIZER DK461	21.5	21	--	145.3	167	--	5.3	4	--
CARGILL 131759	21.5	--	--	129.9	--	--	3.5	--	--
LYNKS LX4084	21.5	--	--	124.5	--	--	1.5	--	--
GLENN & GARNO GX905	21.6	--	--	128.2	--	--	1.5	--	--
MAUMEE VALLEY MV-630	21.7	--	--	125.5	--	--	1.4	--	--
CARGILL 874	21.8	22	23	158.1	186	182	4.1	3	2
PARKER 29A	22.0	21	--	139.4	149	--	2.8	3	--
GLENN & GARNO GX988	22.0	--	--	133.2	--	--	1.6	--	--
GARNO S-97X	22.1	--	--	148.4	--	--	2.2	--	--
KING K416	22.1	--	--	148.4	--	--	2.9	--	--
MAUMEE VALLEY MV-611	22.2	--	--	155.4	--	--	1.4	--	--
BETASEED KRISTINE	22.3	--	--	121.7	--	--	1.5	--	--
PARKER 32A	22.4	22	23	138.4	151	149	0.7	3	2
RENK RK26	22.4	--	--	140.5	--	--	1.5	--	--
JACQUES EXP.5104	22.5	--	--	150.3	--	--	3.7	--	--
RENK RK25	22.6	22	--	160.4	165	--	1.4	2	--
RUPP EXP.504	22.6	--	--	143.8	--	--	3.6	--	--
LEADER LSX530	22.7	23	--	178.9	189	--	4.4	4	--
FUNK G-4326	22.8	22	24	153.1	156	163	2.3	2	3
MAUMEE VALLEY EXP.2	22.8	--	--	157.7	--	--	0.8	--	--
MAUMEE VALLEY MV-762	22.8	--	--	157.9	--	--	0.0	--	--
MAUMEE VALLEY EXP.10	22.8	--	--	129.5	--	--	0.0	--	--
NORTHROP KING PX9385	22.9	--	--	140.2	--	--	0.0	--	--
PRIDE R326	22.9	--	--	138.5	--	--	2.1	--	--
GARNO S-100X	23.0	23	--	163.3	179	--	2.2	2	--
RENK RK60	23.0	23	24	151.2	159	161	0.0	1	1
KING K4484	23.1	23	--	149.0	152	--	2.8	3	--
RUPP XR1690	23.1	22	24	140.9	145	147	0.8	5	4
MAUMEE VALLEY MV-851	23.2	--	--	169.9	--	--	0.7	--	--
*PIONEER 3540	23.3	23	23	187.0	192	186	1.5	1	1
STAUFFER SEEDS S5750	23.4	23	24	145.1	166	158	1.4	2	2
*DEKALB-PFIZER DK524	23.4	22	--	188.2	197	--	0.7	0	--
JACQUES 7700	23.4	23	24	181.8	201	193	8.8	5	4
GREAT LAKES 84546	23.4	--	--	146.6	--	--	4.4	--	--
*KING K5574	23.4	23	--	187.4	175	--	0.7	1	--
CARGILL 130409	23.4	--	--	171.3	--	--	0.8	--	--
PRAIRIE STREAM SX350	23.4	23	24	148.1	170	172	3.5	3	3
RENK R148	23.4	--	--	161.9	--	--	1.4	--	--
RUPP XR1639	23.4	23	24	171.1	178	180	2.2	2	2
KING K4464	23.5	--	--	144.1	--	--	2.3	--	--

(continued below)

*DAIRYLAND DX1017	24.9	27	28	165.8	143	127	2.1	2	1
*DAIRYLAND DX1013	24.9	26	--	177.3	155	--	2.2	1	--
*GOLDEN HARVEST H-2604	25.4	29	--	192.3	139	--	5.6	4	--
AVERAGE	22.3	24	26	149.3	133	113	4.1	2	3
RANGE	19.2	21	22	115.9	107	92	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	25.4	29	28	194.3	155	130	25.9	13	6
LEAST SIGNIFICANT DIFFERENCE	1.4	1.0	0.6	15.1	10	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 3	APRIL 30	MAY 10
HARVESTED	OCTOBER 30	OCTOBER 24	OCTOBER 19
SOIL TYPE	KALAMAZOO LOAM	KALAMAZOO LOAM	KALAMAZOO LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	22,000	21,800	21,400
ROWS	30"	30"	30"
FERTILIZER	112-48-24	125-48-24	122-48-114
SOIL TEST: PH	5.7	5.9	5.6
P	161 (VERY HIGH)	162 (VERY HIGH)	166 (VERY HIGH)
K	286 (HIGH)	364 (VERY HIGH)	336 (VERY HIGH)

FARM COOPERATOR: RICHARD VANVRANCKEN, CLIMAX

COUNTY AGRICULTURAL AGENT: MAURICE KAERCHER, KALAMAZOO

COUNTRYMARK C565X	23.5	--	--	174.5	--	--	1.5	--	--
RENK RK68	23.5	--	--	170.9	--	--	2.9	--	--
ANDERSONS PSX99	23.6	--	--	142.5	--	--	2.2	--	--
CALLAHAN C754	23.6	23	--	176.9	192	--	2.2	3	--
*RENK RK64	23.7	23	24	186.8	195	186	3.4	2	2
*FARMERS FCC4255	23.7	--	--	201.6	--	--	2.2	--	--
STAUFFER SEEDS S5340	23.8	23	24	162.4	187	188	0.0	0	0
*SUPER CROST 2989	23.8	--	--	187.4	--	--	1.5	--	--
*PIONEER 3475	23.8	23	--	200.5	199	--	0.0	0	--
SELECT 3720	23.8	23	24	176.1	183	178	1.7	2	3
*DAIRYLAND DX1107	23.8	23	24	186.2	195	189	0.0	1	0
DAIRYLAND DX1108	23.8	--	--	148.7	--	--	2.1	--	--
*MC CURDY 5750	23.8	23	--	215.9	217	--	0.7	1	--
GREAT LAKES GL-579	23.9	23	24	179.5	188	181	0.7	1	1
*GOLDEN HARVEST H-2465	24.0	--	--	187.7	--	--	2.8	--	--
BECK'S 51X	24.0	23	24	174.3	178	175	0.8	1	1
*FUNK G-4440	24.1	24	25	198.0	188	176	1.4	2	2
DAIRYLAND DX1005	24.1	--	--	165.6	--	--	1.5	--	--
ANDERSONS PSX103E	24.1	--	--	173.3	--	--	3.7	--	--
FARMERS FCC4235	24.1	--	--	141.9	--	--	0.0	--	--
GLENN & GARNO GX1007	24.2	23	--	179.1	187	--	0.7	2	--
CARGILL 889	24.3	23	24	154.6	181	175	3.0	2	2
RUPP XR1715	24.4	--	--	185.1	--	--	0.0	--	--
COUNTRYMARK C525X	24.5	--	--	158.3	--	--	0.0	--	--
*MC CURDY M5990	24.5	--	--	191.8	--	--	0.0	--	--
PAYCO SX847	24.5	--	--	169.8	--	--	4.3	--	--
AGRIPRO HP470	24.7	24	25	157.3	166	165	2.2	4	3
SELECT 4144	24.7	24	25	182.4	184	181	0.7	3	2
BECK'S 49X	24.7	22	24	163.5	178	166	3.4	2	2
*CARGILL 918	24.8	--	--	203.0	--	--	2.1	--	--
*NORTHROP KING 9540	25.1	--	--	217.9	--	--	1.5	--	--
SELECT 4905	25.2	24	--	177.0	173	--	1.4	1	--
*RENK RK76	25.2	25	26	215.2	193	187	1.5	3	2
*PIONEER 3352	25.4	--	--	190.4	--	--	0.0	--	--
GLENN & GARNO GX1009	25.4	--	--	171.9	--	--	1.4	--	--
KING K596	25.6	--	--	182.4	--	--	2.1	--	--
*CROW'S 488	25.6	--	--	185.7	--	--	0.8	--	--
VORIS V2515	25.6	--	--	169.0	--	--	0.0	--	--
*NOBLE BEAR NB446	25.7	--	--	195.4	--	--	0.0	--	--
ANDERSONS PSX107E	25.7	--	--	167.4	--	--	0.8	--	--
*AGRIPRO AP510	26.0	25	--	217.4	206	--	1.4	1	--
ANDERSONS PSX110	26.0	24	26	157.3	160	162	1.4	3	2
FUNK 4093X	26.1	--	--	175.1	--	--	0.0	--	--
*GREAT LAKES GL-599	26.1	25	--	223.0	208	--	0.7	1	--
*BECK'S 63X	26.1	25	26	201.8	209	204	2.2	2	2
*NOBLE BEAR NB810AA	26.2	--	--	222.1	--	--	1.4	--	--
*CARGILL 222660	26.3	--	--	205.9	--	--	0.7	--	--
SUPER CROST 4304	26.4	25	26	174.4	191	181	0.0	1	2
*PRIDE 7705	26.4	--	--	219.6	--	--	2.8	--	--
COUNTRYMARK C733X	26.4	--	--	165.4	--	--	1.4	--	--
DAIRYLAND DX1012	26.4	25	26	155.1	175	172	4.1	3	3
SELECT 5188	26.5	26	27	181.3	177	181	0.7	0	0
*SELECT 5040	26.5	--	--	194.8	--	--	1.4	--	--
SELECT 4701	26.5	25	--	170.6	172	--	0.8	1	--
*P-A-G SX269	26.6	25	--	193.2	204	--	2.2	1	--

(continued next page)

TABLE 5 (CONTINUED)

SOUTHERN MICHIGAN
CASS COUNTY TRIAL - IRRIGATED
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	2	3		2	3		2	3	
	1986	YR	YR	1986	YR	YR	1986	YR	YR
DAIRYLAND DX1013	26.6	25	--	171.2	181	--	2.9	2	--
*STAUFFER SEEDS S7759	26.7	--	--	221.6	--	--	1.4	--	--
P-A-G 132701	26.7	--	--	182.3	--	--	0.0	--	--
COUNTRYMARK C677X	26.8	--	--	149.4	--	--	3.0	--	--
VORIS V2491	26.8	--	--	183.5	--	--	2.2	--	--
PARKER 60A	26.9	25	25	150.9	161	169	1.5	2	2
*MC CURDY 7384	26.9	26	--	195.4	196	--	0.0	1	--
*BECK'S 65X	26.9	26	27	220.1	214	205	0.7	2	2
*KING EXP.647	27.2	--	--	192.9	--	--	0.0	--	--
PRAIRIE STREAM SX485	27.2	25	--	168.0	188	--	0.7	1	--
BECK'S 60X	27.2	25	26	173.3	192	187	2.1	3	3
*GREAT LAKES GL-608	27.3	26	27	204.2	196	183	2.9	2	4
*ASGROW/O'S GOLD 2545	27.3	26	27	211.8	209	199	0.0	1	1
CALLAHAN C766	27.3	26	27	165.2	172	170	1.5	1	2
*SELECT EXP.872	27.8	--	--	206.2	--	--	0.0	--	--
*VORIS V2525	28.2	--	--	189.6	--	--	0.0	--	--
AVERAGE	24.1	23	25	169.2	182	177	1.8	2	2
RANGE	20.0	21	22	121.2	145	147	0.0	0	0
	28.2	26	27	223.0	217	205	8.8	5	4
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	0.8	16.1	10	7	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 2	APRIL 29	MAY 12
HARVESTED	OCTOBER 8	OCTOBER 23	OCTOBER 20
SOIL TYPE	OSHTENO SANDY LOAM	OSHTENO SANDY LOAM	OSHTENO SANDY LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	22,200	22,900	21,800
ROWS	30"	30"	30"
FERTILIZER	248-44-131	343-44-131	200-40-5 + ZINC
IRRIGATION	5 INCHES	8 INCHES	8 INCHES
SOIL TEST: PH	6.8	6.8	6.2
P	264 (VERY HIGH)	230 (VERY HIGH)	189 (VERY HIGH)
K	392 (VERY HIGH)	440 (VERY HIGH)	295 (HIGH)

FARM COOPERATOR: DAVE CRIPE, CASSOPOLIS

COUNTY AGRICULTURAL AGENT: WAYNE HOTHEM, CASSOPOLIS

TABLE 6 (CONTINUED)

SOUTHERN MICHIGAN
CASS COUNTY TRIAL - MUCK SOIL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	2	3		2	3		2	3	
	1986	YR	YR	1986	YR	YR	1986	YR	YR
*DAIRYLAND DX1107	23.5	24	24	121.3	117	118	1.5	1	3
*KING K5574	23.9	--	--	120.8	--	--	0.0	--	--
*COUNTRYMARK C525X	23.9	--	--	130.6	--	--	0.7	--	--
VORIS EXP.2455	23.9	--	--	106.2	--	--	0.7	--	--
PAYMASTER 6127	24.0	--	--	110.9	--	--	3.6	--	--
GLENN & GARNO GX988	24.0	--	--	111.6	--	--	1.4	--	--
P-A-G SX269	24.1	--	--	114.7	--	--	0.0	--	--
ANDERSONS PSX107E	24.2	--	--	105.8	--	--	0.7	--	--
COUNTRYMARK C565X	24.3	--	--	111.6	--	--	5.2	--	--
DAIRYLAND DX1012	24.5	--	--	95.6	--	--	1.4	--	--
*PAYCO SX872	24.5	--	--	120.4	--	--	2.9	--	--
STAUFFER SEEDS S5340	24.7	--	--	108.4	--	--	1.5	--	--
KING K596	24.9	--	--	92.8	--	--	4.8	--	--
MAUMEE VALLEY MV-762	25.0	--	--	116.4	--	--	0.7	--	--
VORIS V2471	25.0	--	--	112.1	--	--	4.5	--	--
MAUMEE VALLEY MV-851	25.3	--	--	114.4	--	--	0.0	--	--
BECK'S 56X	25.6	--	--	101.2	--	--	1.6	--	--
PIONEER 3352	25.9	--	--	110.4	--	--	0.7	--	--
BECK'S 60X	25.9	27	28	110.7	114	120	0.7	1	1
*COUNTRYMARK C733X	26.0	--	--	127.8	--	--	2.9	--	--
COUNTRYMARK C677X	26.2	--	--	99.6	--	--	2.3	--	--
BECK'S 64XA	26.5	--	--	87.3	--	--	1.5	--	--
KING EXP.647	26.6	--	--	116.1	--	--	3.6	--	--
AVERAGE	22.9	22	23	109.9	120	123	2.3	2	2
RANGE	19.7	20	21	87.3	99	112	0.0	0	1
	26.6	27	28	134.7	136	137	8.1	5	4
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	0.9	10.2	8	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 29	MAY 11	MAY 12
HARVESTED	OCTOBER 30	OCTOBER 23	OCTOBER 22
SOIL TYPE	PALMS MUCK	PALMS MUCK	PALMS MUCK
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	22,000	21,900	21,500
ROWS	30"	38"	38"
FERTILIZER	100-76-90	113-53-53 + 2 MANGANESE	143-40-80
SOIL TEST: PH	5.7	6.2	6.2
P	98(HIGH)	125(VERY HIGH)	122(VERY HIGH)
K	635(VERY HIGH)	508(VERY HIGH)	587(VERY HIGH)

FARM COOPERATOR: WARREN WOODEN, CASSOPOLIS

COUNTY AGRICULTURAL AGENT: WAYNE HOTHEM, CASSOPOLIS

TABLE 6

SOUTHERN MICHIGAN
CASS COUNTY TRIAL - MUCK SOIL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 1

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	2	3		2	3		2	3	
	1986	YR	YR	1986	YR	YR	1986	YR	YR
GLENN & GARNO GX888	19.7	--	--	105.5	--	--	4.0	--	--
COUNTRYMARK C454X	19.9	--	--	94.2	--	--	0.0	--	--
LYNKS LX4075	19.9	--	--	109.2	--	--	2.9	--	--
DEKALB-PFIZER DK461	20.4	20	--	100.9	121	--	6.3	5	--
GREAT LAKES GL-437	20.4	--	--	100.6	--	--	4.2	--	--
KING K4422	20.5	21	22	102.5	99	112	0.7	1	1
PAYCO SX611	20.7	--	--	110.3	--	--	4.0	--	--
*GOLDEN HARVEST H-2300	20.7	20	21	121.3	127	126	0.7	1	1
*PIONEER 3737	20.9	20	22	120.9	129	133	2.1	2	2
ASGROW/O'S GOLD 2330	20.9	--	--	104.9	--	--	6.7	--	--
FUNK G-4296	21.1	--	--	96.5	--	--	2.2	--	--
KING K416	21.1	22	--	103.9	117	--	2.1	2	--
*CARGILL 859	21.1	21	--	123.0	126	--	5.6	4	--
GLENN & GARNO GX906	21.2	--	--	98.9	--	--	3.5	--	--
*GREAT LAKES GL-487	21.4	21	22	124.3	129	133	3.4	2	2
GLENN & GARNO GX944	21.4	--	--	107.9	--	--	0.0	--	--
FUNK 2034X	21.5	--	--	93.4	--	--	1.7	--	--
MAUMEE VALLEY MV-630	21.5	--	--	109.4	--	--	0.7	--	--
FUNK G-4211	21.6	22	22	116.2	110	117	2.3	2	2
*DEKALB-PFIZER DK484	21.7	21	22	122.6	119	127	1.4	2	2
NORTHROP KING PX9283	21.7	--	--	109.3	--	--	2.8	--	--
*PARKER 29A	21.7	23	--	123.7	110	--	0.0	0	--
GLENN & GARNO GX905	21.7	--	--	101.3	--	--	0.7	--	--
*FUNK G-4312	21.9	22	--	120.6	127	--	0.7	2	--
PIONEER 3744	21.9	22	23	115.8	114	120	2.1	1	1
PAYCO SX788	21.9	--	--	115.8	--	--	3.4	--	--
DEKALB-PFIZER DK524	22.2	22	--	115.6	126	--	3.8	2	--
PAYMASTER 4587	22.3	--	--	106.5	--	--	8.1	--	--
*DAIRYLAND DX1103	22.4	--	--	124.6	--	--	0.7	--	--
ANDERSONS PSX99	22.4	--	--	96.6	--	--	0.7	--	--
*GOLDEN HARVEST H-2465	22.4	--	--	127.6	--	--	2.1	--	--
*PIONEER 3540	22.5	23	24	130.2	136	137	1.4	1	1
MAUMEE VALLEY EXP.2	22.5	--	--	94.2	--	--	3.6	--	--
MAUMEE VALLEY MV-611	22.5	--	--	109.7	--	--	0.7	--	--
*GOLDEN HARVEST H-2344	22.5	22	--	134.7	127	--	4.2	3	--
CARGILL 874	22.7	--	--	112.0	--	--	1.4	--	--
ANDERSONS PSX105	22.7	23	24	101.6	109	114	1.4	3	4
*PIONEER 3475	22.8	24	--	132.1	135	--	2.9	2	--
PAYMASTER 2990	22.8	--	--	111.6	--	--	1.4	--	--
CARGILL 131759	22.8	--	--	103.8	--	--	1.3	--	--
DAIRYLAND DX1005	22.9	--	--	94.4	--	--	0.8	--	--
DAIRYLAND DX1089	22.9	--	--	96.8	--	--	5.1	--	--
KING K4484	23.0	--	--	95.6	--	--	2.7	--	--
*GLENN & GARNO GX1007	23.1	--	--	123.2	--	--	1.5	--	--
KING K4464	23.2	--	--	113.1	--	--	3.5	--	--
AGRIPRO 644	23.4	--	--	99.4	--	--	5.6	--	--
MAUMEE VALLEY EXP.10	23.4	--	--	113.1	--	--	3.6	--	--
CARGILL 889	23.4	--	--	105.9	--	--	2.7	--	--
FUNK G-4327	23.5	--	--	114.9	--	--	0.0	--	--
CARGILL 842	23.5	23	--	102.6	111	--	3.3	2	--

(continued top right)

TABLE 7

SOUTH CENTRAL MICHIGAN
KENT COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 2

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	2	3		2	3		2	3	
	1986	YR	YR	1986	YR	YR	1986	YR	YR
KING K2204	20.5	--	--	112.0	--	--	6.5	--	--
BETASEED INGRID	20.5	--	--	113.8	--	--	5.9	--	--
STANTON SX95	20.5	20	20	80.4	83	81	2.1	1	2
PRIDE 1194	20.6	--	--	92.0	--	--	0.0	--	--
MCKENZIE 502	20.9	--	--	88.3	--	--	4.6	--	--
PRIDE X945	21.6	--	--	102.2	--	--	1.7	--	--
BETASEED KRISTINE	21.7	--	--	73.1	--	--	2.9	--	--
GLENN & GARNO GX906	21.7	--	--	102.2	--	--	0.9	--	--
GLENN & GARNO GX888	21.7	--	--	89.0	--	--	2.4	--	--
COUNTRYMARK C454X	21.8	--	--	96.4	--	--	2.4	--	--
RUPP XR1555	21.9	--	--	105.5	--	--	2.2	--	--
STAUFFER SEEDS S3306	22.1	21	21	103.8	96	91	1.0	1	2
MAUMEE VALLEY EXP.2	22.3	--	--	111.1	--	--	1.9	--	--
PAYCO SX611	22.3	--	--	81.1	--	--	0.0	--	--
GREAT LAKES GL-437	22.4	22	--	107.7	112	--	1.8	1	--
NORTHROP KING PX9353	22.4	22	22	105.9	106	101	0.0	0	2
ANDERSONS PSX93	22.5	22	21	92.5	90	82	1.4	3	2
MAUMEE VALLEY EXP.10	22.6	--	--	81.3	--	--	3.3	--	--
*CARGILL 859	22.6	21	--	126.4	123	--	2.5	3	--
ASGROW/O'S GOLD 2330	22.6	--	--	94.9	--	--	4.4	--	--
GLENN & GARNO GX905	22.6	--	--	99.4	--	--	0.0	--	--
*FUNK 2034X	22.7	--	--	123.0	--	--	1.9	--	--
*FUNK G-4327	22.8	--	--	132.1	--	--	1.7	--	--
PIONEER 3704	22.8	--	--	115.6	--	--	0.0	--	--
DAIRYLAND DX1005	22.8	--	--	98.1	--	--	0.9	--	--
*DEKALB-PFIZER DK461	22.9	22	--	130.5	124	--	1.5	1	--
GREAT LAKES 85548	22.9	--	--	115.1	--	--	0.0	--	--
WOLVERINE X198	22.9	22	--	98.7	100	--	2.5	2	--
PRIDE 3376	22.9	23	--	114.2	114	--	0.0	1	--
FUNK G-4211	23.0	21	21	111.3	100	93	0.0	0	4
PRIDE 4422	23.0	22	22	105.0	109	109	2.5	2	1
*KING K4422	23.0	23	22	124.6	110	102	1.6	1	3
*BETASEED EXP.336	23.0	--	--	130.6	--	--	1.6	--	--
CARGILL 842	23.0	23	--	78.3	92	--	0.0	0	--
STAUFFER SEEDS S4414	23.1	22	--	94.3	98	--	0.0	0	--
STAUFFER SEEDS S4445WX	23.1	22	--	108.0	110	--	2.4	3	--
FUNK G-4312	23.1	23	--	114.2	107	--	1.5	1	--
SUPER CROST 1989	23.1	--	--	76.1	--	--	1.0	--	--
*P-A-G 223229	23.1	--	--	137.5	--	--	6.1	--	--
*PIONEER 3737	23.1	22	22	123.0	121	106	3.7	3	4
PIONEER 3779	23.1	--	--	96.0	--	--	0.0	--	--
*MCKENZIE 507	23.1	--	--	122.1	--	--	2.4	--	--
DEKALB-PFIZER DK484	23.2	22	22	110.9	110	108	1.8	1	4
*KING K4484	23.2	24	--	123.4	107	--	0.9	1	--
COUNTRYMARK C433X	23.2	--	--	105.4	--	--	0.8	--	--
*WOLVERINE W156	23.3	--	--	125.0	--	--	2.1	--	--
GREAT LAKES GL-487	23.4	--	--	118.0	--	--	0.0	--	--
MAUMEE VALLEY MV-611	23.5	--	--	87.6	--	--	0.0	--	--
PIONEER 3744	23.6	23	22	118.0	105	102	1.6	1	2
KING K416	23.6	23	--	120.7	120	--	0.7	1	--

(continued next page)

TABLE 7 (CONTINUED)

SOUTH CENTRAL MICHIGAN
KENT COUNTY TRIAL

ZONE 2

ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
MAUMEE VALLEY MV-630	23.6	--	--	107.1	--	--	1.7	--	--
GLENN & GARNO GX944	23.6	--	--	101.1	--	--	3.0	--	--
DEKALB-PFIZER DK524	23.7	23	--	111.3	115	--	0.0	1	--
DAIRYLAND DX1008	23.8	24	23	93.1	101	98	0.0	1	3
*FUNK G-4326	23.9	24	24	131.0	120	111	0.0	0	4
DAIRYLAND DX1108	23.9	--	--	112.9	--	--	0.0	--	--
*RUPP XR1690	23.9	24	24	128.9	123	110	1.6	2	3
GREAT LAKES GL-547	24.0	24	24	117.5	116	112	1.2	1	2
*CUSTOM EW93022	24.0	--	--	134.5	--	--	0.9	--	--
GREAT LAKES GL-510	24.1	--	--	114.6	--	--	0.9	--	--
NORTHROP KING PX9283	24.1	--	--	117.3	--	--	0.8	--	--
*CARGILL 839	24.1	--	--	129.7	--	--	4.1	--	--
*KING K4464	24.3	24	24	128.2	115	104	2.2	2	3
STANTON SX100	24.3	23	24	95.4	96	92	0.0	1	5
JACQUES EXP.5104	24.4	--	--	101.1	--	--	0.9	--	--
CARGILL 874	24.5	24	--	91.9	93	--	3.4	2	--
COUNTRYMARK C525X	24.6	--	--	116.5	--	--	0.9	--	--
*JACQUES 7700	24.7	24	--	136.0	126	--	0.0	0	--
NORTHROP KING PX9385	24.8	--	--	97.8	--	--	0.0	--	--
PAYCO SX750	24.8	--	--	108.0	--	--	2.0	--	--
CUSTOM EW96002	24.8	--	--	98.3	--	--	0.0	--	--
RUPP EXP.504	24.9	--	--	93.4	--	--	2.5	--	--
WOLVERINE W163	25.0	--	--	96.1	--	--	0.0	--	--
*PIONEER 3540	25.0	24	--	122.5	121	--	1.4	1	--
*CUSTOM 6203	25.0	--	--	129.3	--	--	1.7	--	--
CUSTOM 5801	25.1	25	24	110.0	113	108	0.0	0	3
CARGILL 131759	25.2	--	--	108.8	--	--	1.5	--	--
GREAT LAKES 85552	25.4	--	--	96.9	--	--	1.9	--	--
DAIRYLAND DX1105	25.4	24	23	116.2	118	105	0.0	0	6
*GLENN & GARNO GX1007	25.4	25	--	125.5	121	--	1.1	1	--
DEKALB-PFIZER DK547	25.5	--	--	111.6	--	--	0.0	--	--
*SUPER CROST 2989	25.5	--	--	130.5	--	--	2.2	--	--
*GREAT LAKES GL-579	25.6	25	24	138.8	128	116	1.6	1	3
*KING K5574	25.6	25	--	127.7	122	--	0.7	1	--
COUNTRYMARK C565X	25.6	--	--	113.6	--	--	1.6	--	--
*ANDERSONS PSX103E	25.6	--	--	124.6	--	--	0.0	--	--
STAUFFER SEEDS S5340	25.8	25	24	102.4	109	106	2.3	2	3
STAUFFER SEEDS S5750	25.8	--	--	99.1	--	--	0.8	--	--
GLENN & GARNO GX988	25.8	--	--	98.3	--	--	3.1	--	--
*GOLDEN HARVEST H-2480	25.9	25	25	122.7	120	115	0.0	0	2
DAIRYLAND DX1107	26.1	24	24	108.5	113	103	0.0	0	1
*PICKSEED 8898	26.2	25	--	126.8	122	--	0.0	0	--
PAYCO SX872	26.3	25	24	111.0	114	111	1.6	2	3
*P-A-G 130409	26.4	--	--	121.9	--	--	0.0	--	--
GOLDEN HARVEST H-2465	26.5	25	--	107.5	112	--	0.0	1	--
MAUMEE VALLEY MV-762	26.8	--	--	95.8	--	--	1.1	--	--
MAUMEE VALLEY MV-851	27.0	--	--	115.5	--	--	0.0	--	--
*GOLDEN HARVEST H-2572	27.3	27	26	127.8	113	110	0.8	1	1

(continued below)

TABLE 8

SOUTH CENTRAL MICHIGAN
OTTAWA COUNTY TRIAL

ZONE 2

ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
BETASEED EXP.336	20.9	--	--	104.8	--	--	4.4	--	--
DAIRYLAND DX1097	21.2	21	--	92.5	98	--	7.4	7	--
PAYCO SX500	21.2	21	--	74.4	84	--	5.2	7	--
KING K2204	21.3	--	--	110.6	--	--	1.5	--	--
DAIRYLAND DX1089	21.8	--	--	76.4	--	--	3.7	--	--
PIONEER 3779	21.9	--	--	125.7	--	--	2.9	--	--
DAIRYLAND DX1096	22.1	22	24	125.4	117	105	4.4	4	3
*WOLVERINE W156	22.3	--	--	134.1	--	--	6.7	--	--
*P-A-G 223229	22.3	--	--	134.4	--	--	6.0	--	--
GOLDEN HARVEST H-2300	22.3	23	23	108.4	106	94	4.0	3	4
GOLDEN HARVEST H-2344	22.3	22	--	111.2	109	--	1.9	3	--
NORTHROP KING PX9353	22.4	--	--	114.9	--	--	5.0	--	--
*KING K416	22.6	23	--	133.0	120	--	2.4	2	--
GLENN & GARNO GX888	22.6	--	--	127.3	--	--	6.7	--	--
*P-A-G 133037	22.7	--	--	130.5	--	--	7.5	--	--
*PIONEER 3737	22.7	23	--	131.6	123	--	3.0	4	--
KING K4422	22.7	22	24	90.0	95	86	2.6	3	3
BETASEED INGRID	22.7	--	--	114.1	--	--	2.9	--	--
CARGILL 839	22.7	--	--	110.0	--	--	5.7	--	--
*PIONEER 3744	22.9	23	24	144.3	129	119	4.3	3	4
CARGILL 842	22.9	23	--	114.7	123	--	3.6	2	--
STAUFFER SEEDS S4414	23.0	23	--	106.4	109	--	2.8	2	--
FUNK G-4312	23.0	23	--	99.2	100	--	1.6	3	--
*GARNO S-95X	23.0	--	--	127.8	--	--	1.5	--	--
*WOLVERINE W168	23.0	24	24	138.9	110	103	3.1	4	3
COUNTRYMARK C454X	23.0	--	--	106.8	--	--	2.3	--	--
ASGROW/O'S GOLD 2330	23.0	--	--	126.9	--	--	3.7	--	--
GLENN & GARNO GX988	23.0	--	--	110.8	--	--	7.2	--	--
*STAUFFER SEEDS S3306	23.1	22	--	128.9	116	--	4.6	4	--
NORTHROP KING PX9283	23.1	--	--	103.2	--	--	2.2	--	--
MAUMEE VALLEY EXP.10	23.1	--	--	90.0	--	--	0.8	--	--
STANTON SX95	23.1	23	23	105.4	91	96	6.1	7	5
*GARNO S-97X	23.2	--	--	132.2	--	--	3.1	--	--
GREAT LAKES GL-487	23.2	23	25	122.9	123	120	5.3	4	4
PIONEER 3704	23.2	--	--	109.8	--	--	3.8	--	--
*FUNK G-4428	23.3	--	--	130.3	--	--	2.2	--	--
*GREAT LAKES 85548	23.3	--	--	134.2	--	--	3.0	--	--
GLENN & GARNO GX906	23.3	--	--	125.2	--	--	1.6	--	--
GLENN & GARNO GX905	23.3	--	--	94.1	--	--	2.2	--	--
FUNK 3069X	23.4	--	--	121.9	--	--	5.5	--	--
SUPER CROST 1989	23.4	--	--	96.4	--	--	4.5	--	--
COUNTRYMARK C433X	23.4	--	--	98.1	--	--	5.2	--	--
WOLVERINE W163	23.7	--	--	99.3	--	--	4.7	--	--
MAUMEE VALLEY MV-611	23.7	--	--	113.4	--	--	3.1	--	--
JACQUES EXP.5104	23.8	--	--	110.2	--	--	3.6	--	--
BETASEED KRISTINE	23.8	--	--	107.6	--	--	3.9	--	--
GLENN & GARNO GX944	23.9	--	--	102.4	--	--	3.0	--	--
NORTHROP KING PX9385	24.0	--	--	126.7	--	--	2.3	--	--
MAUMEE VALLEY MV-630	24.0	--	--	124.0	--	--	3.1	--	--
CARGILL 859	24.0	23	--	97.8	102	--	8.5	6	--
PAYCO SX611	24.1	--	--	94.2	--	--	3.8	--	--
DEKALB-PFIZER DK461	24.2	23	--	100.2	104	--	5.1	3	--
*GREAT LAKES GL-498	24.2	24	--	128.5	116	--	2.9	3	--

(continued below)

AVERAGE	23.8	23	23	109.8	111	103	1.4	1	3
RANGE	20.5	20	20	73.1	83	81	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.3	27	26	138.8	128	116	5.9	3	6
LEAST SIGNIFICANT DIFFERENCE	1.5	1.1	0.7	12.1	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 7	MAY 9	MAY 8
HARVESTED	OCTOBER 31	OCTOBER 31	OCTOBER 29
SOIL TYPE	BELVILLE LOAM	BELVILLE LOAM	BELVILLE LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	19,600	21,500	21,700
ROWS	30"	30"	30"
FERTILIZER	116-87-0, MANURE	189-48-60	141-57-60, BORON
SOIL TEST: PH	6.6	6.6	6.0
P	105 (VERY HIGH)	76 (HIGH)	77 (HIGH)
K	261 (HIGH)	378 (VERY HIGH)	265 (HIGH)

FARM COOPERATOR: GERALD KAYSER, CALEDONIA

COUNTY AGRICULTURAL AGENT: LYMAN BAKER, GRAND RAPIDS

CARGILL 874	24.2	24	--	120.7	112	--	3.7	6	--
DAIRYLAND DX1103	24.2	--	--	104.5	--	--	6.0	--	--
DAIRYLAND DX1108	24.2	--	--	115.1	--	--	4.5	--	--
DAIRYLAND DX1102	24.2	24	--	97.2	102	--	4.1	6	--
ASGROW/O'S GOLD 2450	24.2	25	--	99.4	101	--	3.6	2	--
GREAT LAKES GL-510	24.3	24	--	119.2	128	--	1.5	3	--
KING K4484	24.3	--	--	101.2	--	--	2.9	--	--
COUNTRYMARK C565X	24.3	--	--	101.1	--	--	3.9	--	--
*STANTON SX100	24.3	23	24	128.2	107	99	3.6	3	4
*DEKALB-PFIZER DK524	24.4	24	--	140.1	137	--	3.9	3	--
*PIONEER 3540	24.4	24	--	134.1	119	--	2.2	2	--
CARGILL 131759	24.4	--	--	113.0	--	--	2.9	--	--
DAIRYLAND DX1105	24.4	24	26	118.4	123	116	4.9	4	3
ANDERSONS PSX99	24.4	--	--	93.3	--	--	1.5	--	--
*STAUFFER SEEDS S5340	24.5	25	--	141.0	131	--	4.5	4	--
DEKALB-PFIZER DK547	24.5	--	--	104.2	--	--	3.0	--	--
*FUNK G-4326	24.5	--	--	141.9	--	--	2.3	--	--
DAIRYLAND DX1006	24.5	25	26	97.2	103	98	5.9	4	3
FUNK G-4327	24.6	--	--	109.3	--	--	1.5	--	--
MAUMEE VALLEY EXP.2	24.6	--	--	94.9	--	--	2.2	--	--
*SUPER CROST 2989	24.7	--	--	138.1	--	--	2.2	--	--
COUNTRYMARK C525X	24.7	--	--	104.7	--	--	2.2	--	--
KING K5574	24.8	--	--	118.5	--	--	2.4	--	--
KING K4464	24.8	--	--	100.7	--	--	3.0	--	--
*MAUMEE VALLEY MV-762	24.8	--	--	141.3	--	--	3.9	--	--
*DAIRYLAND DX1005	24.8	--	--	135.5	--	--	1.7	--	--
*P-A-G 130409	25.0	--	--	131.5	--	--	6.4	--	--
GOLDEN HARVEST H-2480	25.0	25	--	122.0	129	--	5.2	4	--
ANDERSONS PSX105	25.1	--	--	114.4	--	--	1.4	--	--
GREAT LAKES GL-579	25.2	--	--	125.8	--	--	3.7	--	--
STAUFFER SEEDS S5750	25.3	--	--	103.6	--	--	4.7	--	--
*JACQUES 7700	25.3	26	26	134.0	130	125	5.9	5	4
PICKSEED 8898	25.3	27	--	116.8	117	--	2.4	2	--
GLENN & GARNO GX1007	25.3	26	--	126.5	124	--	5.8	3	--
MAUMEE VALLEY MV-851	25.7	--	--	125.8	--	--	7.0	--	--
*PAYCO SX872	25.7	26	27	136.4	133	120	2.2	2	2
DAIRYLAND DX1107	26.8	26	--	111.3	121	--	2.4	1	--
AVERAGE	23.7	24	25	115.4	114	107	3.3	4	4
RANGE	20.9	21	23	74.4	84	86	0.8	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	26.8	27	27	144.3	137	125	8.5	7	5
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	0.8	12.2	8	7	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 7	MAY 9	JUNE 14
HARVESTED	OCTOBER 31	OCTOBER 31	OCTOBER 25
SOIL TYPE	GILFORD & SIBEWA LOAM	GILFORD & SIBEWA LOAM	GILFORD & SIBEWA LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	21,100	21,700	21,200
ROWS	30"	30"	30"
FERTILIZER	92-48-48	109-36-36	12-48-48
SOIL TEST: PH	6.1	5.8	6.3
P	173 (VERY HIGH)	176 (VERY HIGH)	219 (VERY HIGH)
K	369 (VERY HIGH)	345 (VERY HIGH)	337 (VERY HIGH)

FARM COOPERATOR: GERALD GEURINK, ALLENDALE

COUNTY AGRICULTURAL AGENT: IRA KRUPP, GRAND HAVEN

TABLE 9

SOUTH CENTRAL MICHIGAN
INGHAM COUNTY TRIAL-GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 2

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
GLENN & GARNO GX888	19.4	--	--	131.9	--	--	0.0	--	--
STAUFFER SEEDS S3303	20.0	20	--	141.8	151	--	2.9	2	--
CALLAHAN C728	20.7	20	22	144.1	149	142	0.0	0	0
STANTON SX95	20.8	20	22	124.0	130	122	4.8	3	3
PRIDE X945	21.0	--	--	121.5	--	--	0.7	--	--
KING K416	21.1	21	--	147.7	134	--	0.0	2	--
FUNK G-4211	21.3	21	23	125.7	119	117	0.0	1	2
CROW'S 181	21.4	21	--	131.9	140	--	1.9	1	--
CARGILL 829	21.8	22	23	133.1	140	131	3.2	2	2
PAYCO SX611	21.8	--	--	130.3	--	--	2.9	--	--
GLENN & GARNO GX905	21.8	--	--	134.4	--	--	2.4	--	--
GREAT LAKES GL-487	21.9	22	24	147.7	153	146	3.3	2	2
PIONEER 3737	21.9	22	23	142.0	144	136	1.7	3	7
STAUFFER SEEDS S4402	22.0	--	--	139.6	--	--	3.3	--	--
PRO-SEED HL-2454	22.0	21	22	146.9	142	130	0.8	0	1
CROW'S 191	22.0	--	--	150.3	--	--	0.0	--	--
PRIDE 3376	22.1	22	--	144.1	152	--	1.4	1	--
GLENN & GARNO GX906	22.1	--	--	126.6	--	--	0.0	--	--
DEKALB-PFIZER DK524	22.4	21	--	147.1	151	--	2.5	2	--
P-A-G 223229	22.4	--	--	144.4	--	--	2.8	--	--
PRIDE 4422	22.4	23	24	134.8	142	136	1.4	1	3
PRIDE 2244	22.5	--	--	123.3	--	--	1.4	--	--
KING K4484	22.5	25	--	139.5	151	--	0.0	0	--
MAUMEE VALLEY EXP.10	22.6	--	--	121.7	--	--	1.4	--	--
CARGILL 842	22.7	23	--	155.1	159	--	0.8	1	--
PIONEER 3704	22.8	--	--	149.8	--	--	0.0	--	--
CARGILL 131759	22.8	--	--	141.6	--	--	0.7	--	--
RENK RK19	22.8	23	24	120.5	141	137	2.8	2	2
FUNK 2034X	22.9	--	--	132.6	--	--	0.7	--	--
GREAT LAKES GL-498	22.9	21	--	152.1	156	--	0.8	2	--
RUPP XR1555	22.9	--	--	143.1	--	--	0.0	--	--
GOLDEN HARVEST H-2424	22.9	24	25	139.5	153	139	3.1	2	3
NORTHROP KING PX9353	23.0	23	24	131.1	143	133	0.0	0	1
NORTHROP KING PX9283	23.0	--	--	129.4	--	--	0.0	--	--
PIONEER 3744	23.0	23	24	158.7	161	151	0.0	2	4
AGRIPRO 644	23.1	--	--	160.4	--	--	0.0	--	--
ASGROW/O'S GOLD RX532	23.1	23	24	138.9	148	143	2.9	2	2
ANDERSONS PSX99	23.1	--	--	133.5	--	--	0.0	--	--
GLENN & GARNO GX944	23.1	--	--	154.0	--	--	0.0	--	--
FUNK G-4327	23.2	--	--	132.2	--	--	0.7	--	--
COUNTRYMARK C433X	23.2	--	--	120.6	--	--	3.3	--	--
MAUMEE VALLEY MV-630	23.2	--	--	143.5	--	--	1.5	--	--
*DEKALB-PFIZER DK484	23.3	23	24	162.2	165	155	0.0	1	3
CARGILL HT95	23.3	--	--	131.2	--	--	0.0	--	--
CARGILL 130409	23.4	--	--	143.3	--	--	0.7	--	--
RENK RK25	23.4	23	25	131.8	147	137	0.0	1	1
KING K4464	23.5	23	25	139.1	141	130	0.0	2	3
P-A-G SX239	23.6	23	25	133.6	146	132	0.8	2	3
RUPP EXP.504	23.6	--	--	136.5	--	--	3.9	--	--
STAUFFER SEEDS S4454WX	23.7	23	--	124.7	143	--	2.1	2	--

(continued below)

TABLE 9 (CONTINUED)

SOUTH CENTRAL MICHIGAN
INGHAM COUNTY TRIAL-GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 2

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
*GLENN & GARNO GX1007	25.4	25	--	175.0	168	--	0.0	1	--
*CALLAHAN C754	25.4	25	--	165.4	170	--	0.7	2	--
DAIRYLAND DX1107	25.5	--	--	160.3	--	--	1.4	--	--
*FUNK G-4326	25.6	26	28	166.7	158	143	0.7	1	2
*DAIRYLAND DX1005	25.6	--	--	163.3	--	--	2.2	--	--
FARMERS FCC4235	25.6	--	--	142.9	--	--	0.8	--	--
STAUFFER SEEDS S5340	25.9	26	27	156.5	164	147	0.0	1	3
DEKALB-PFIZER DK547	25.9	--	--	151.3	--	--	0.0	--	--
STANTON SX100	25.9	25	26	151.6	153	145	0.0	1	3
SELECT 3720	26.0	26	27	136.8	152	139	2.3	1	3
*GREAT LAKES 5922	26.0	26	27	184.2	175	163	0.0	0	1
*RENK RK76	26.1	27	29	173.0	165	154	2.8	2	2
*P-A-G SX269	26.2	--	--	183.0	--	--	0.0	--	--
DAIRYLAND DX1108	26.3	--	--	146.7	--	--	0.0	--	--
*MAUMEE VALLEY MV-851	26.4	--	--	168.2	--	--	0.7	--	--
DAIRYLAND DX1008	26.4	26	27	149.8	156	144	0.7	1	2
*GOLDEN HARVEST H-2572	26.4	27	30	179.7	176	163	0.7	1	1
VORIS V2471	26.4	26	27	159.4	165	151	0.7	1	0
COUNTRYMARK C525X	26.5	--	--	137.7	--	--	0.0	--	--
STAUFFER SEEDS S5750	26.8	25	28	141.1	150	139	0.0	0	1
AGRIPRO AP391	26.8	25	--	139.0	147	--	2.9	2	--
*CROW'S 444	27.1	--	--	165.7	--	--	0.0	--	--
SELECT 2772	27.4	--	--	133.2	--	--	0.7	--	--
*GLENN & GARNO GX1009	27.6	--	--	176.8	--	--	0.0	--	--
CALLAHAN C771	27.8	27	--	155.0	162	--	1.7	2	--
*STAUFFER SEEDS S7751	27.9	--	--	165.1	--	--	0.7	--	--
*GREAT LAKES GL-599	28.1	--	--	180.9	--	--	0.0	--	--
VORIS V2515	28.5	--	--	146.5	--	--	0.0	--	--
SELECT 4144	28.6	--	--	158.4	--	--	0.0	--	--
*KING K596	28.9	--	--	170.3	--	--	0.7	--	--
ANDERSONS PSX107E	28.9	--	--	148.1	--	--	0.0	--	--
*GOLDEN HARVEST H-2604	29.1	30	--	183.4	175	--	2.8	1	--
STAUFFER SEEDS S7759	29.6	30	--	153.9	159	--	0.7	1	--
CARGILL HT115	30.4	--	--	151.3	--	--	0.7	--	--
CARGILL HT120	32.9	--	--	121.5	--	--	1.5	--	--
AVERAGE	23.4	24	25	148.3	154	143	1.0	1	2
RANGE	19.4	20	22	120.5	119	117	0.0	0	0
	32.9	30	30	184.5	176	163	4.8	3	7
LEAST SIGNIFICANT DIFFERENCE	1.9	1.4	1.0	13.6	9	7	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

(continued below)

FUNK G-4312	23.7	25	26	140.7	146	134	0.0	2	3
NORTHROP KING PX9385	23.7	--	--	145.6	--	--	0.7	--	--
MAUMEE VALLEY EXP.2	23.7	--	--	158.1	--	--	0.0	--	--
CARGILL 859	23.7	22	--	133.3	147	--	0.7	1	--
PAYMASTER 2990	23.8	25	26	143.1	140	140	3.1	2	4
RENK RK60	23.8	24	26	152.3	164	155	0.7	1	2
*RENK RK64	23.8	25	26	164.3	163	147	0.0	1	2
*SUPER CROST 2989	23.9	25	26	162.0	164	148	3.0	2	3
RENK R148	23.9	24	--	145.8	151	--	0.8	1	--
MAUMEE VALLEY MV-611	24.0	--	--	128.1	--	--	0.8	--	--
GLENN & GARNO GX988	24.0	--	--	134.4	--	--	0.0	--	--
GARNO S-95X	24.1	--	--	147.3	--	--	0.7	--	--
GREAT LAKES GL-540	24.1	--	--	152.6	--	--	0.0	--	--
AGRIPRO 680	24.1	--	--	149.0	--	--	1.6	--	--
*PAYMASTER 6127	24.1	--	--	165.1	--	--	2.8	--	--
COUNTRYMARK C454X	24.1	--	--	151.6	--	--	1.7	--	--
COUNTRYMARK C565X	24.1	--	--	142.5	--	--	0.0	--	--
FARMERS FCC4255	24.1	--	--	153.2	--	--	0.7	--	--
P-A-G 133037	24.3	--	--	151.9	--	--	2.7	--	--
*RUPP XR1639	24.3	25	27	163.4	163	149	2.2	2	4
PRIDE R326	24.4	--	--	124.6	--	--	0.7	--	--
RENK RK26	24.4	--	--	155.1	--	--	0.0	--	--
ANDERSONS PSX103E	24.4	--	--	158.8	--	--	0.0	--	--
P-A-G SX267	24.5	24	26	147.5	156	149	0.0	2	2
CROW'S 344	24.5	--	--	149.6	--	--	0.0	--	--
GARNO S-94X	24.6	--	--	131.2	--	--	2.3	--	--
LEADER LSX488	24.6	--	--	146.8	--	--	0.0	--	--
LEADER LSX480A	24.6	--	--	135.5	--	--	1.6	--	--
CARDINAL SX112	24.7	25	--	145.5	158	--	2.5	1	--
GARNO S-97X	24.7	--	--	155.5	--	--	1.4	--	--
*JACQUES 7700	24.7	25	26	164.2	162	146	2.8	2	3
GREAT LAKES 85552	24.7	--	--	159.1	--	--	0.0	--	--
*PIONEER 3540	24.7	24	--	167.3	160	--	0.0	0	--
KING K5574	24.7	25	--	156.0	165	--	1.5	1	--
*PRO-SEED HL-2803	24.7	--	--	165.9	--	--	0.7	--	--
*GREAT LAKES GL-579	24.8	25	27	166.8	167	155	1.6	1	1
*DAIRYLAND DX1006	24.8	24	26	169.9	170	152	0.7	3	5
PAYCO SX750	24.8	--	--	131.8	--	--	0.7	--	--
SELECT 3100	25.1	24	25	138.3	147	147	0.0	1	3
CARGILL HT105	25.1	--	--	154.2	--	--	0.0	--	--
CARGILL HT110	25.1	--	--	145.7	--	--	2.8	--	--
ANDERSONS PSX100	25.1	--	--	135.1	--	--	0.0	--	--
*GARNO S-100X	25.2	25	26	167.4	166	156	0.7	1	1
JACQUES EXP.5104	25.2	--	--	148.4	--	--	1.7	--	--
*TRELAY 9009	25.2	--	--	165.3	--	--	1.4	--	--
PRO-SEED HL-2830	25.2	25	--	142.2	151	--	1.4	1	--
RENK RK68	25.2	--	--	159.9	--	--	2.1	--	--
CROW'S 212	25.2	25	--	140.9	153	--	0.0	0	--
*GOLDEN HARVEST H-2465	25.2	--	--	162.3	--	--	2.9	--	--
PRO-SEED HL-2727A	25.3	26	--	139.4	148	--	0.0	0	--
CARGILL 889	25.3	--	--	144.0	--	--	1.4	--	--
*PAYCO SX847	25.3	--	--	166.9	--	--	1.4	--	--
*PAYMASTER 4587	25.4	--	--	184.5	--	--	0.0	--	--
MAUMEE VALLEY MV-762	25.4	--	--	155.7	--	--	2.2	--	--
*ANDERSONS PSX105	25.4	25	28	173.5	163	145	0.0	0	1

(continued top right)

	1986	1985	1984
PLANTED	APRIL 24	APRIL 26	APRIL 26
HARVESTED	OCTOBER 11	OCTOBER 17	OCTOBER 22
SOIL TYPE	CAPAC LOAM	CAPAC LOAM	CAPAC LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	22,300	21,900	21,200
ROWS	36"	36"	36"
FERTILIZER	165-50-50	165-50-50	165-50-50
SOIL TEST: PH	5.9	6.1	6.2
P	186(VERY HIGH)	155(VERY HIGH)	140(VERY HIGH)
K	215(HIGH)	235(HIGH)	224(HIGH)

FARM COOPERATOR: MICHIGAN STATE UNIVERSITY, EAST LANSING

COUNTY EXTENSION DIRECTOR: MARVIN PRESTON, MASON

TABLE 10

SOUTH CENTRAL MICHIGAN
INGHAM COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 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
STAUFFER SEEDS S3303	47.5	46.3	--	11.8	13.2	--	5.6	6.1	--
STANTON SX95	44.4	43.5	42.8	13.7	12.7	13.3	6.1	5.5	5.7
GLENN & GARNO GX888	43.8	--	--	14.2	--	--	6.2	--	--
AGRIPRO AP391	43.2	40.3	--	13.3	13.9	--	5.7	5.6	--
NORTHROP KING PX9353	40.6	39.9	38.4	12.3	15.0	15.7	5.0	6.0	6.0
P-A-G 223229	40.5	--	--	14.8	--	--	6.0	--	--
CALLAHAN C728	40.1	42.7	43.0	15.6	14.7	14.0	6.2	6.2	6.0
PIONEER 3737	39.9	41.2	40.4	15.1	15.1	15.8	6.0	6.2	6.3
PRO-SEED HL-2454	39.9	41.1	41.7	15.4	14.2	14.2	6.1	5.8	5.9
CARGILL 829	39.2	41.1	41.3	14.5	14.1	14.4	5.6	5.8	5.9
PRIDE 4422	39.1	38.1	38.0	14.4	15.4	16.4	5.6	5.8	6.2
PAYCO SX611	38.9	--	--	16.2	--	--	6.3	--	--
PAYMASTER 2990	38.7	38.2	38.1	14.4	14.6	15.7	5.6	5.6	6.0
CARGILL HT95	38.6	--	--	16.2	--	--	6.3	--	--
GLENN & GARNO GX988	38.4	--	--	13.2	--	--	5.1	--	--
COUNTRYMARK C454X	38.3	--	--	16.3	--	--	6.2	--	--
CARGILL 859	38.3	38.0	--	14.9	14.9	--	5.7	5.6	--
GOLDEN HARVEST H-2424	38.1	39.5	39.0	15.5	15.2	15.1	5.9	6.0	5.9
FUNK G-4211	37.8	38.5	38.8	14.5	13.7	14.5	5.4	5.2	5.6
GREAT LAKES GL-498	37.8	39.8	--	16.2	15.4	--	6.1	6.1	--
P-A-G 133037	37.7	--	--	15.7	--	--	5.9	--	--
COUNTRYMARK C525X	37.6	--	--	14.0	--	--	5.3	--	--
STAUFFER SEEDS S4454WX	37.5	37.8	--	14.9	15.6	--	5.6	5.9	--
CROW'S 181	37.5	37.5	--	15.4	14.6	--	5.8	5.5	--
STAUFFER SEEDS S4402	37.4	--	--	14.4	--	--	5.4	--	--
NORTHROP KING PX9283	37.4	--	--	15.8	--	--	5.9	--	--
KING K4464	37.3	38.3	36.9	15.6	15.5	15.5	5.8	5.9	5.7
CROW'S 199	37.3	--	--	16.9	--	--	6.3	--	--
GARNO S-95X	37.1	--	--	16.6	--	--	6.2	--	--
MAUMEE VALLEY EXP. 2	37.0	--	--	15.6	--	--	5.7	--	--

(continued next page)

TABLE 10 (CONTINUED)

SOUTH CENTRAL MICHIGAN
INGHAM COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 2

HYBRID (BRAND-VARIETY)	TONS PER ACRE			TONS PER ACRE			TONS PER ACRE		
	DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1986	2	3	1986	2	3	1986	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
MAUMEE VALLEY EXP. 10	37.0	--	--	15.2	--	--	5.6	--	--
PRIDE 2244	36.9	--	--	14.3	--	--	5.3	--	--
COUNTRYMARK C433X	36.9	--	--	13.0	--	--	4.8	--	--
RUPP EXP. 504	36.9	--	--	18.0	--	--	6.6	--	--
KING K416	36.6	37.3	--	16.6	14.4	--	6.1	5.4	--
MAUMEE VALLEY MV-630	36.6	--	--	15.9	--	--	5.8	--	--
SELECT 3100	36.5	38.2	38.1	15.9	15.7	16.0	5.8	6.0	6.1
FUNK G-4327	36.4	--	--	14.3	--	--	5.2	--	--
ANDERSONS PSX99	36.2	--	--	16.6	--	--	5.8	--	--
LEADER SX488	36.1	--	--	16.8	--	--	6.1	--	--
GLENN & GARNO GX906	36.0	--	--	14.5	--	--	5.2	--	--
GARNO S-94X	35.8	--	--	15.1	--	--	5.4	--	--
GLENN & GARNO GX944	35.8	--	--	16.3	--	--	5.8	--	--
GREAT LAKES GL-487	35.7	36.7	37.5	17.1	17.4	17.1	6.1	6.4	6.4
GREAT LAKES GL-540	35.7	--	--	16.2	--	--	5.8	--	--
RUPP XR1555	35.7	--	--	17.4	--	--	6.2	--	--
RENK R148	35.6	35.7	--	17.2	17.6	--	6.2	6.3	--
PIONEER 3704	35.5	--	--	15.9	--	--	5.6	--	--
PRIDE R326	35.2	--	--	13.9	--	--	4.9	--	--
CARGILL 130409	35.2	--	--	17.9	--	--	6.3	--	--
RENK RK19	35.1	35.9	35.9	15.4	16.6	16.5	5.4	6.0	5.9
CARDINAL SX112	35.0	35.1	--	17.4	18.2	--	6.1	6.4	--
DAIRYLAND DX1006	34.9	36.4	37.7	17.2	16.0	15.2	6.0	5.8	5.7
PAYCO SX847	34.8	--	--	18.9	--	--	6.6	--	--
CROW'S 444	34.7	--	--	18.3	--	--	6.2	--	--
GREAT LAKES 85552	34.6	--	--	14.6	--	--	5.1	--	--
AGRIPRO 644	34.6	--	--	16.3	--	--	5.6	--	--
JACQUES EXP. 5104	34.4	--	--	14.6	--	--	5.0	--	--
CARGILL 842	34.4	35.8	--	18.4	18.3	--	6.3	6.5	--
STAUFFER SEEDS S5750	34.3	36.2	36.2	15.5	16.3	16.2	5.3	5.9	5.8
GREAT LAKES 5922	34.3	34.7	34.2	20.4	20.4	20.5	7.0	7.1	7.0
GARNO S-97X	34.1	--	--	17.7	--	--	6.0	--	--
ASGROW/O'S GOLD RX532	34.1	37.2	37.9	15.2	15.2	15.4	5.2	5.7	5.9
DAIRYLAND DX1005	34.1	--	--	17.9	--	--	6.1	--	--
TRELLAY 9009	34.0	--	--	19.8	--	--	6.7	--	--
PRO-SEED HL-2830	34.0	33.2	--	15.2	17.4	--	5.1	5.7	--
DEKALB-PFIZER DK524	33.9	36.0	--	19.1	18.3	--	6.5	6.6	--
CARGILL 131759	33.8	--	--	16.3	--	--	5.5	--	--
CALLAHAN C754	33.8	33.7	--	18.0	19.9	--	6.1	6.7	--
GREAT LAKES GL-579	33.7	35.1	34.8	19.1	19.3	19.7	6.4	6.7	6.8
PAYMASTER 4587	33.7	--	--	16.3	--	--	5.5	--	--
PRO-SEED HL-2727A	33.7	34.5	--	14.0	15.4	--	4.7	5.3	--
GLENN & GARNO GX905	33.6	--	--	15.8	--	--	5.3	--	--
JACQUES 7700	33.5	33.9	32.9	19.0	18.6	20.2	6.4	6.3	6.6
P-A-G SX 267	33.5	34.5	34.0	18.3	18.1	18.6	6.1	6.2	6.3
PIONEER 3540	33.5	33.9	--	20.2	19.2	--	6.8	6.5	--
PAYMASTER 6127	33.5	--	--	18.2	--	--	6.0	--	--
FUNK 2034X	33.4	--	--	14.6	--	--	4.9	--	--
PIONEER 3744	33.4	36.5	37.0	16.5	16.4	16.3	5.5	6.0	6.0
RENK RK64	33.3	34.3	34.1	17.4	18.2	18.4	5.8	6.3	6.3

(continued below)

TABLE 10 (CONTINUED)

SOUTH CENTRAL MICHIGAN
INGHAM COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 2

HYBRID (BRAND-VARIETY)	TONS PER ACRE			TONS PER ACRE			TONS PER ACRE		
	DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1986	2	3	1986	2	3	1986	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
GOLDEN HARVEST H-2604	27.6	29.0	--	23.1	22.7	--	6.4	6.6	--
STAUFFER SEEDS S7759	27.2	28.6	--	21.5	21.9	--	5.9	6.3	--
CALLAHAN C771	26.3	29.0	--	19.7	20.5	--	5.2	6.0	--
CARGILL HT110	25.7	--	--	25.3	--	--	6.5	--	--
CARGILL HT120	25.7	--	--	25.5	--	--	6.6	--	--
AVERAGE	33.9	35.7	36.1	17.3	17.4	17.3	5.8	6.1	6.2
RANGE	25.7	28.6	29.3	11.8	12.7	13.3	4.7	5.1	5.3
	T0	T0	T0	T0	T0	T0	T0	T0	T0
	47.5	46.3	43.0	25.5	24.2	23.2	7.0	7.1	7.0
LEAST SIGNIFICANT DIFFERENCE	3.5	2.3	1.6	2.2	1.5	1.2	0.6	0.5	0.5

	1986	1985	1984
PLANTED	APRIL 24	APRIL 26	APRIL 28
HARVESTED	SEPTEMBER 3	SEPTEMBER 12	SEPTEMBER 10
SOIL TYPE	CAPAC LOAM	CAPAC LOAM	CAPAC LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	21,600	22,000	21,000
ROWS	36"	36"	36"
FERTILIZER	165-50-50	165-50-50	165-50-50
SOIL TEST: PH	6.2	6.1	6.2
P	150(VERY HIGH)	155(VERY HIGH)	140(VERY HIGH)
K	220(HIGH)	235(HIGH)	224(HIGH)

FARM COOPERATOR: MICHIGAN STATE UNIVERSITY, EAST LANSING

COUNTY EXTENSION DIRECTOR: MARVIN PRESTON, MASON

RENK RK60	33.2	34.2	34.0	16.3	18.3	18.5	5.4	6.3	6.3
ANDERSONS PSX105	33.2	33.7	33.5	17.7	19.2	18.6	5.9	6.5	6.2
GOLDEN HARVEST H-2465	33.1	--	--	20.3	--	--	6.7	--	--
MAUMEE VALLEY MV-762	33.0	--	--	21.2	--	--	7.0	--	--
DAIRYLAND DX1108	33.0	--	--	16.6	--	--	5.5	--	--
ANDERSONS PSX100	33.0	--	--	17.8	--	--	5.9	--	--
SUPER CROST 2989	32.9	34.2	33.9	20.1	19.9	19.5	6.6	6.8	6.6
P-A-G SX239	32.8	35.4	36.5	18.9	17.8	17.4	6.2	6.2	6.3
VORIS V2471	32.7	34.6	34.8	19.2	19.8	18.5	6.3	6.9	6.4
FUNK G-4326	32.6	34.8	34.4	18.4	18.6	17.7	6.0	6.4	6.1
MAUMEE VALLEY MV-611	32.6	--	--	14.4	--	--	4.7	--	--
STANTON SX100	32.6	35.9	35.9	18.2	17.2	16.1	5.9	6.1	5.7
ANDERSONS PSX103E	32.5	--	--	16.0	--	--	5.2	--	--
FUNK G-4312	32.4	35.1	35.3	18.4	18.4	18.0	6.0	6.4	6.3
DEKALB-PFIZER DK484	32.2	34.7	34.4	17.2	16.1	16.8	5.5	5.5	5.7
PRO-SEED HL-2803	32.2	--	--	18.5	--	--	5.9	--	--
CROW'S 344	32.2	--	--	17.4	--	--	5.6	--	--
GARNO S-100X	32.1	33.9	34.7	21.1	20.6	19.7	6.7	6.9	6.8
FARMERS FCC4255	32.1	--	--	20.6	--	--	6.6	--	--
PRIDE 3376	32.0	35.3	--	17.5	16.5	--	5.6	5.8	--
CROW'S 212	32.0	33.0	--	16.6	18.1	--	5.3	6.0	--
RENK RK26	31.7	--	--	16.2	--	--	5.1	--	--
PAYCO SX750	31.7	--	--	16.9	--	--	5.4	--	--
COUNTRYMARK C565X	31.6	--	--	19.6	--	--	6.2	--	--
GLENN & GARNO GX1007	31.6	33.1	--	20.6	20.3	--	6.5	6.7	--
PRIDE X945	31.5	--	--	15.2	--	--	4.8	--	--
DAIRYLAND DX1107	31.5	--	--	17.4	--	--	5.5	--	--
VORIS V2515	31.5	--	--	17.4	--	--	5.5	--	--
STAUFFER SEEDS S5340	31.4	33.0	33.7	19.8	21.4	19.9	6.2	7.1	6.7
RENK RK25	31.4	--	--	17.8	--	--	5.6	--	--
RUPP XR1639	31.2	33.1	32.9	19.7	19.9	19.1	6.2	6.6	6.3
SELECT 2772	31.0	--	--	19.6	--	--	6.1	--	--
CARGILL 889	30.8	--	--	19.8	--	--	6.1	--	--
SELECT 4144	30.7	--	--	16.3	--	--	5.0	--	--
CARGILL HT 105	30.7	--	--	18.4	--	--	5.7	--	--
NORTHROP KING PX9385	30.6	--	--	18.8	--	--	5.7	--	--
ANDERSONS PSX107E	30.6	--	--	16.0	--	--	4.9	--	--
FARMERS FCC 4235	30.6	--	--	18.9	--	--	5.8	--	--
P-A-G SX269	30.0	--	--	23.4	--	--	7.0	--	--
DEKALB-PFIZER DK547	29.9	--	--	19.4	--	--	5.8	--	--
LEADER LSX480A	29.9	--	--	17.7	--	--	5.3	--	--
DAIRYLAND DX1008	29.9	30.8	31.9	16.1	16.7	16.6	4.8	5.1	5.3
SELECT 3720	29.8	32.4	33.1	18.2	18.5	18.6	5.4	5.9	6.1
KING K5574	29.5	32.6	--	19.5	19.0	--	5.8	6.2	--
RENK RK68	29.5	--	--	20.3	--	--	6.0	--	--
KING K4484	29.4	32.1	--	18.5	18.2	--	5.5	5.8	--
MAUMEE VALLEY MV-851	29.4	--	--	20.1	--	--	5.9	--	--
RENK RK76	29.4	30.5	30.5	23.8	22.6	22.2	7.0	6.9	6.8
GREAT LAKES GL-599	29.3	--	--	22.7	--	--	6.7	--	--
KING K596	28.9	--	--	20.8	--	--	6.0	--	--
GLENN & GARNO GX1009	28.8	--	--	19.0	--	--	5.5	--	--
AGRIPRO 680	28.7	--	--	21.7	--	--	6.1	--	--
GOLDEN HARVEST H-2572	28.4	29.2	29.3	23.4	24.2	23.2	6.6	7.1	6.8
CARGILL HT115	28.0	--	--	23.4	--	--	6.5	--	--
STAUFFER SEEDS S7751	27.9	--	--	21.0	--	--	6.1	--	--

(continued top right)

TABLE 11

NORTH CENTRAL MICHIGAN
SANILAC COUNTY TRIAL - GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
GLENN & GARNO GX888	24.0	--	--	152.1	--	--	0.7	--	--
PRIDE 1194	24.3	--	--	149.6	--	--	0.8	--	--
PIONEER 3779	24.6	23	--	148.2	157	--	4.3	2	--
MAIZE MX290	24.6	--	--	144.8	--	--	0.0	--	--
DEKALB-PFIZER DK435	24.8	--	--	144.4	--	--	1.5	--	--
MAIZE MX305	24.9	--	--	137.3	--	--	2.1	--	--
JACQUES 4750	25.0	--	--	148.0	--	--	0.0	--	--
CALLAHAN 18460X	25.0	23	--	153.5	155	--	0.7	0	--
CARDINAL 2820	25.1	22	24	134.6	138	132	3.1	2	1
GREAT LAKES GL-414	25.1	23	--	145.2	144	--	1.6	1	--
P-A-G SX123	25.2	22	--	132.0	138	--	4.9	2	--
DEKALB-PFIZER DK415	25.3	--	--	131.0	--	--	4.4	--	--
WOLVERINE W130	25.3	23	--	127.7	135	--	0.7	1	--
MAIZE MX300	25.6	--	--	162.7	--	--	0.7	--	--
KING K2204	25.6	23	24	152.7	140	143	1.4	1	0
CARDINAL 3222	25.7	25	27	149.9	145	149	5.0	3	2
DAIRYLAND DX1089	25.7	--	--	134.9	--	--	0.0	--	--
ANDERSONS PSX93	25.8	24	25	126.2	121	122	4.6	2	2
STANTON SX95	25.9	23	24	148.8	146	147	2.1	1	1
GLENN & GARNO GX906	25.9	24	--	127.4	135	--	0.7	0	--
*STAUFFER SEEDS S3303	26.0	23	--	170.3	150	--	0.0	1	--
SUPER CROST 1940	26.0	24	26	157.8	157	147	0.0	0	0
*PIONEER 3901	26.0	24	26	175.8	174	157	2.9	1	1
GARNO S-95X	26.1	--	--	146.1	--	--	1.5	--	--
RENK RK17A	26.2	--	--	138.6	--	--	4.4	--	--
GLENN & GARNO GX905	26.3	--	--	121.2	--	--	3.5	--	--
SOHIGRO S-28	26.4	--	--	152.1	--	--	3.0	--	--
*CALLAHAN C728	26.5	24	26	167.8	165	158	2.1	1	1
STAUFFER SEEDS S4414	26.6	25	--	146.1	146	--	1.4	1	--
GREAT LAKES GL-487	26.6	24	27	162.7	159	157	2.2	1	1
FUNK G-4211	26.7	24	26	137.1	131	135	1.7	1	1
FUNK 2034X	26.8	--	--	141.2	--	--	0.7	--	--
PIONEER 3790	26.9	--	--	141.9	--	--	0.0	--	--
*DEKALB-PFIZER DK524	27.0	25	--	174.0	171	--	0.7	0	--
GREAT LAKES GL-437	27.0	25	--	146.8	149	--	2.4	2	--
PIONEER 3737	27.0	25	27	160.3	155	150	1.5	1	1
PRIDE 2244	27.0	--	--	163.7	--	--	2.2	--	--
PRIDE 3376	27.0	25	--	151.5	147	--	1.4	1	--
*PICKSEED 5575	27.0	25	--	167.9	158	--	0.0	1	--
GLENN & GARNO GX944	27.0	--	--	161.7	--	--	0.7	--	--
PRIDE 4422	27.1	26	28	151.7	146	147	2.2	2	2
*PRIDE X945	27.1	--	--	174.4	--	--	1.5	--	--
*DAIRYLAND DX1097	27.1	23	26	167.9	149	144	3.5	3	3
NORTHROP KING PX9353	27.2	--	--	145.6	--	--	0.0	--	--
*PIONEER 3744	27.2	25	27	167.1	168	164	2.9	1	1
PRIDE R326	27.2	--	--	149.3	--	--	1.4	--	--
COUNTRYMARK C433X	27.2	--	--	149.5	--	--	2.2	--	--
*ASGROW/O'S GOLD 2330	27.2	25	27	167.1	167	157	2.9	1	1
GREAT LAKES 85548	27.3	--	--	150.8	--	--	0.0	--	--
AGRIPRO TS60	27.3	--	--	151.3	--	--	5.5	--	--

(continued next page)

TABLE 11 (CONTINUED)

NORTH CENTRAL MICHIGAN
SANILAC COUNTY TRIAL - GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	2		3	2		3	2		3
	1986	YR	YR	1986	YR	YR	1986	YR	YR
*KING K416	27.3	25	--	167.3	164	--	3.0	2	--
*GREAT LAKES GL-498	27.4	25	--	167.5	161	--	1.5	1	--
RENK R148	27.4	--	--	144.4	--	--	0.0	--	--
KING K4464	27.6	--	--	162.8	--	--	1.7	--	--
*GLENN & GARNO GX988	27.6	--	--	174.9	--	--	2.2	--	--
GREAT LAKES GL-540	27.7	27	--	153.7	153	--	1.5	1	--
PIONEER 3475	27.7	--	--	165.7	--	--	1.6	--	--
DAIRYLAND DX1096	27.7	25	27	152.8	141	147	2.8	1	1
NORTHROP KING PX9283	27.8	--	--	142.1	--	--	2.3	--	--
*P-A-G 223229	27.8	--	--	168.4	--	--	2.2	--	--
RENK RK19	27.8	--	--	155.8	--	--	3.0	--	--
SOHIGRO S-25	27.8	--	--	136.9	--	--	0.7	--	--
*STAUFFER SEEDS S4454WX	28.0	26	--	169.9	161	--	0.7	1	--
FUNK G-4326	28.0	26	28	139.8	136	141	0.0	0	0
GARNO S-94X	28.0	--	--	143.4	--	--	0.0	--	--
DAIRYLAND DX1103	28.0	--	--	136.2	--	--	2.2	--	--
ANDERSONS PSX99	28.0	--	--	144.5	--	--	3.0	--	--
STANTON SX100	28.0	25	27	144.8	150	153	3.8	3	2
AGRIPRO HP277	28.1	25	--	159.8	143	--	3.1	2	--
DAIRYLAND DX1102	28.1	26	--	150.2	160	--	0.0	0	--
FUNK G-4296	28.2	--	--	142.1	--	--	0.8	--	--
AGRIPRO 644	28.2	--	--	163.2	--	--	3.8	--	--
STAUFFER SEEDS S4402	28.5	25	27	151.3	157	153	1.4	1	1
P-A-G SX180	28.5	26	28	133.4	133	133	1.5	1	1
CARGILL HT95	28.5	--	--	151.0	--	--	3.6	--	--
CARGILL 859	28.5	--	--	161.1	--	--	3.0	--	--
COUNTRYMARK C454X	28.8	--	--	148.9	--	--	0.7	--	--
KING K4484	28.9	--	--	141.0	--	--	0.8	--	--
GOLDEN HARVEST H-2344	28.9	27	--	156.7	162	--	3.6	2	--
*CARGILL 842	29.0	27	--	168.9	155	--	0.7	0	--
FUNK G-4312	29.2	27	29	158.4	148	152	2.1	1	1
CALLAHAN C738	29.2	--	--	150.2	--	--	3.1	--	--
CARGILL 131759	29.4	--	--	137.6	--	--	0.0	--	--
AGRIPRO AP391	29.5	27	--	138.1	134	--	2.3	2	--
*GREAT LAKES GL-579	29.7	28	30	176.3	163	157	1.5	1	1
*CARDINAL SX112	29.9	29	--	174.2	159	--	1.5	1	--
CALLAHAN C747	29.9	--	--	152.4	--	--	3.6	--	--
PAYCO SX620	30.0	26	27	148.7	134	142	5.6	3	2
*STAUFFER SEEDS S5340	30.1	28	29	171.4	162	167	2.2	2	2
*AGRIPRO 680	30.1	--	--	170.9	--	--	2.3	--	--
*FUNK G-4327	30.3	--	--	168.6	--	--	3.0	--	--
*DAIRYLAND DX1006	30.3	--	--	170.4	--	--	2.3	--	--
ANDERSONS PSX107E	30.3	--	--	152.7	--	--	0.0	--	--
STAUFFER SEEDS S5750	30.7	28	--	138.6	154	--	0.0	0	--
CARGILL HT105	30.7	--	--	156.9	--	--	0.7	--	--
ANDERSONS PSX105	30.7	29	30	130.4	125	142	3.0	2	1
*SUPER CROST 2989	31.1	29	30	173.1	172	171	1.5	1	1
JACQUES EXP.5104	31.1	--	--	164.9	--	--	1.5	--	--
PAYCO SX847	31.3	--	--	140.2	--	--	0.0	--	--
KING K5574	31.7	29	--	163.9	160	--	3.6	2	--

(continued below)

TABLE 12

NORTH CENTRAL MICHIGAN
SANILAC COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1986	2	3	1986	2	3	1986	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
P-A-G SX123	60.4	56.5	--	11.2	11.1	--	6.8	6.3	--
CALLAHAN 18460X	58.5	55.4	--	10.4	11.4	--	6.1	6.3	--
PIONEER 3790	58.2	--	--	13.2	--	--	7.7	--	--
PRIDE 1194	57.8	--	--	13.0	--	--	7.5	--	--
MAIZE MX300	57.4	--	--	12.5	--	--	7.2	--	--
KING K2204	57.3	54.8	49.5	12.4	12.4	12.4	7.1	6.8	6.1
STAUFFER SEEDS S3303	57.1	52.6	--	12.0	12.1	--	6.8	6.3	--
PAYCO SX620	56.3	53.0	47.4	14.1	12.2	13.3	8.0	6.5	6.2
GREAT LAKES GL-414	56.0	50.3	--	11.8	12.1	--	6.6	6.1	--
SUPER CROST 1940	55.9	51.1	45.6	13.9	14.2	15.0	7.8	7.3	6.8
PIONEER 3779	55.7	50.5	--	13.7	14.0	--	7.6	7.5	--
GOLDEN HARVEST H-2344	55.5	50.7	--	13.9	13.7	--	7.6	6.9	--
PRIDE 2244	55.4	--	--	14.4	--	--	7.9	--	--
AGRIPRO TS60	55.1	--	--	13.9	--	--	7.7	--	--
DEKALB-PFIZER DK415	55.0	--	--	13.7	--	--	7.5	--	--
CARDINAL 2820	54.7	50.4	45.0	13.0	12.1	13.6	7.1	6.1	6.0
NORTHROP KING PX9353	54.7	--	--	14.4	--	--	7.8	--	--
MAIZE MX290	54.6	--	--	13.2	--	--	7.2	--	--
GLENN & GARNO GX944	54.3	--	--	14.6	--	--	7.9	--	--
PIONEER 3901	54.2	50.4	45.5	15.5	15.7	15.8	8.4	7.9	7.1
GLENN & GARNO GX888	54.2	--	--	15.1	--	--	8.2	--	--
CALLAHAN C738	54.1	--	--	13.7	--	--	7.4	--	--
STANTON SX95	54.0	50.2	45.6	14.8	13.4	14.1	8.0	7.1	6.6
MAIZE MX305	53.8	--	--	14.6	--	--	7.9	--	--
GREAT LAKES GL-437	53.7	47.0	--	14.2	15.0	--	7.6	7.0	--
DAIRYLAND DX1097	53.7	49.0	43.9	13.7	13.1	14.1	7.4	6.5	6.1
GREAT LAKES 85548	53.6	--	--	16.0	--	--	8.6	--	--
DAIRYLAND DX1096	53.6	51.5	45.6	14.1	13.9	14.1	7.6	7.2	6.4
CALLAHAN C728	53.5	52.0	47.6	14.6	12.0	12.9	7.8	6.2	6.1
GLENN & GARNO GX905	53.4	--	--	12.5	--	--	6.7	--	--
WOLVERINE W130	53.0	46.9	--	14.1	15.1	--	7.5	7.0	--
KING K416	53.0	47.5	--	16.2	16.1	--	8.6	7.6	--
ANDERSONS PSX93	52.9	52.3	46.2	13.2	11.5	13.3	7.0	6.0	5.9
GARNO S-95X	52.8	--	--	15.8	--	--	8.3	--	--
GREAT LAKES GL-487	52.7	46.2	41.7	15.9	16.7	16.5	8.4	7.6	6.8
STANTON SX100	52.5	46.5	41.4	13.9	15.8	16.1	7.3	7.2	6.5
CARDINAL 3222	52.4	46.6	42.5	14.1	14.4	16.0	7.4	6.7	6.7
SOHIGRO S-25	52.3	--	--	12.8	--	--	6.7	--	--
ANDERSONS PSX99	52.2	--	--	15.1	--	--	7.8	--	--
GLENN & GARNO GX988	52.2	--	--	17.0	--	--	8.9	--	--
COUNTRYMARK C433X	51.8	--	--	16.0	--	--	8.3	--	--
DAIRYLAND DX1089	51.8	--	--	14.1	--	--	7.3	--	--
GREAT LAKES GL-498	51.7	48.7	--	15.5	15.4	--	8.0	7.5	--
DEKALB-PFIZER DK435	51.6	--	--	14.4	--	--	7.4	--	--
FUNK G-4312	51.6	44.4	41.2	15.5	15.8	15.8	8.0	7.0	6.5
PIONEER 3737	51.6	47.6	42.7	17.1	16.1	17.0	8.8	7.7	7.2
AGRIPRO HP277	51.6	44.2	--	16.5	15.5	--	8.5	6.9	--
FUNK G-4211	51.5	45.8	40.8	12.8	14.6	14.9	6.6	6.6	6.0
PRIDE 4422	51.5	45.6	40.7	16.7	15.9	16.9	8.6	7.3	6.8
PRIDE R326	51.5	--	--	14.4	--	--	7.4	--	--

(continued below)

GOLDEN HARVEST H-2572	32.1	31	32	150.7	134	137	2.2	1	1
CALLAHAN C754	32.1	29	--	149.4	149	--	2.9	1	--
*CARGILL 130409	32.9	--	--	169.5	--	--	3.1	--	--
CARGILL HT110	33.5	--	--	159.8	--	--	3.6	--	--
CARGILL 839	34.1	--	--	155.7	--	--	0.8	--	--
AVERAGE	27.8	25	27	152.1	150	148	2.0	1	1
RANGE	24.0	22	24	121.2	121	122	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	34.1	31	32	176.3	174	171	5.6	3	3
LEAST SIGNIFICANT DIFFERENCE	2.0	1.6	1.1	14.8	9	7	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 12	MAY 3	MAY 4
HARVESTED	NOVEMBER 6	OCTOBER 28	OCTOBER 23
SOIL TYPE	PARKHILL LOAM	PARKHILL LOAM	PARKHILL LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	21,500	21,800	21,200
ROWS	30"	30"	30"
FERTILIZER	135-60-150	157-69-90	145-65-185
SOIL TEST: PH	7.0	6.2	6.2
P	121(VERY HIGH)	175(VERY HIGH)	144(VERY HIGH)
K	413(VERY HIGH)	304(VERY HIGH)	286(HIGH)

FARM COOPERATOR: RAY ORCHARD, APPLGATE

COUNTY EXTENSION DIRECTOR: REX SIETING, SANDUSKY

CALLAHAN C754	51.5	43.2	--	17.3	18.0	--	8.9	7.7	--
STAUFFER SEEDS S4454WX	51.4	45.4	--	15.5	15.8	--	8.0	7.2	--
GREAT LAKES GL-540	51.3	45.1	--	13.6	14.9	--	7.0	6.6	--
PRIDE X945	51.3	--	--	16.5	--	--	8.5	--	--
JACQUES 4750	51.2	--	--	13.0	--	--	6.6	--	--
FUNK G-4326	51.1	44.0	39.5	14.5	14.1	14.6	7.5	6.3	5.8
FUNK 2034X	51.1	--	--	14.8	--	--	7.6	--	--
DAIRYLAND DX1102	51.1	43.2	--	15.1	14.6	--	7.7	6.3	--
PIONEER 3744	51.0	44.5	40.6	16.0	16.3	16.4	8.2	7.3	6.7
KING 4464	51.0	--	--	16.5	--	--	8.4	--	--
RENK RK19	51.0	--	--	14.5	--	--	7.4	--	--
CARGILL 842	50.9	45.6	--	17.7	16.9	--	9.0	7.7	--
KING K5574	50.8	40.4	--	17.4	18.6	--	8.9	7.4	--
DAIRYLAND DX1103	50.8	--	--	15.6	--	--	7.9	--	--
CALLAHAN C747	50.8	--	--	14.8	--	--	7.5	--	--
STAUFFER SEEDS S4402	50.7	44.3	41.0	15.8	15.5	16.1	8.0	6.9	6.6
CARGILL HT105	50.6	--	--	15.8	--	--	8.0	--	--
P-A-G SX180	50.5	47.5	41.8	14.6	13.7	14.8	7.4	6.5	6.1
CARGILL 859	50.4	--	--	16.5	--	--	8.3	--	--
PICKSEED 5575	50.4	45.3	--	15.8	17.2	--	8.0	7.7	--
PAYCO SX847	50.3	--	--	18.5	--	--	9.3	--	--
CARGILL HT95	50.2	--	--	18.5	--	--	9.3	--	--
GLENN & GARNO GX906	50.2	44.9	--	13.9	15.0	--	7.0	6.7	--
PRIDE 3376	50.0	45.1	--	17.2	17.3	--	8.6	7.8	--
FUNK G-4296	49.7	--	--	15.3	--	--	7.5	--	--
ASGROW/O'S GOLD 2330	49.7	46.6	43.3	16.7	16.5	16.7	8.3	7.7	7.2
PIONEER 3475	49.6	--	--	18.1	--	--	9.0	--	--
STAUFFER SEEDS S4414	49.4	43.1	--	15.5	16.0	--	7.7	6.9	--
JACQUES EXP. 5104	49.4	--	--	17.0	--	--	8.4	--	--
RENK R148	49.4	--	--	17.2	--	--	8.5	--	--
DEKALB-PFIZER DK524	49.1	44.3	--	16.5	16.3	--	8.1	7.3	--
FUNK G-4327	49.1	--	--	16.0	--	--	7.9	--	--
AGRIPRO AP391	49.1	41.4	--	13.2	14.7	--	6.5	5.9	--
COUNTRYMARK C454X	49.1	--	--	13.9	--	--	6.8	--	--
SOHIGRO S-28	49.0	--	--	16.0	--	--	7.8	--	--
CARGILL 839	48.9	--	--	17.0	--	--	8.3	--	--
RENK RK17A	48.9	--	--	13.7	--	--	6.7	--	--
NORTHROP KING PX9283	48.7	--	--	14.1	--	--	6.9	--	--
DAIRYLAND DX1006	48.6	42.8	39.4	17.4	16.7	17.6	8.4	7.1	6.9
P-A-G 223229	48.5	--	--	14.8	--	--	7.2	--	--
GARNO S-94X	48.4	--	--	16.2	--	--	7.9	--	--
ANDERSONS PSX107E	48.4	--	--	14.6	--	--	7.1	--	--
STAUFFER SEEDS S5340	47.8	42.1	38.1	19.7	19.8	19.7	9.4	8.3	7.5
SUPER CROST 2989	47.6	41.0	37.6	17.7	20.0	20.3	8.5	8.1	7.5
CARGILL 131759	47.6	--	--	17.7	--	--	8.4	--	--
KING K4484	47.3	--	--	17.0	--	--	8.0	--	--
AGRIPRO 680	47.2	--	--	18.6	--	--	8.8	--	--
CARDINAL SX112	47.1	39.0	--	17.8	17.4	--	8.4	6.8	--
STAUFFER SEEDS S5750	46.5	39.1	--	16.1	18.3	--	7.5	7.0	--
ANDERSONS PSX 105	45.9	39.9	35.9	19.3	17.9	19.9	8.8	7.2	7.0
AGRIPRO 644	45.8	--	--	17.4	--	--	8.0	--	--
GREAT LAKES GL-579	45.7	40.6	36.8	20.5	20.0	19.8	9.4	8.2	7.3
CARGILL 130409	45.3	--	--	18.8	--	--	8.6	--	--
GOLDEN HARVEST H-2572	43.8	36.5	33.5	18.8	21.9	21.7	8.2	7.8	7.1
CARGILL HT110	38.2	--	--	20.7	--	--	7.9	--	--

(continued next page)

TABLE 12 (CONTINUED)

NORTH CENTRAL MICHIGAN
SANILAC COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	2		3	2		3	2		3	2		3
	1986	YR	YR	1986	YR	YR	1986	YR	YR	1986	YR	YR
AVERAGE	51.4	46.5	42.2	15.4	15.4	16.1	7.9	7.0	6.6			
RANGE	38.2	36.5	33.5	10.4	11.1	12.4	6.1	5.9	5.8			
	TO	TO	TO	TO	TO	TO	TO	TO	TO			
	60.4	56.5	49.5	20.7	21.9	21.7	9.4	8.3	7.5			
LEAST SIGNIFICANT DIFFERENCE	4.0	2.8	2.0	2.1	1.5	1.2	1.0	0.7	0.5			

	1986	1985	1984
PLANTED	MAY 12	MAY 2	MAY 4
HARVESTED	OCTOBER 22	SEPTEMBER 19	SEPTEMBER 19
SOIL TYPE	PARKHILL LOAM	LINWOOD LOAM	LINWOOD LOAM
PREVIOUS CROP	ALFALFA	CORN	CORN
POPULATION	22,100	21,800	21,700
ROWS	30"	30"	30"
FERTILIZER	135-60-150	214-138-180	175-125-120
SOIL TEST: PH	7.0	7.6	7.0
P	121 (VERY HIGH)	177 (VERY HIGH)	201 (VERY HIGH)
K	413 (VERY HIGH)	391 (VERY HIGH)	581 (VERY HIGH)

FARM COOPERATOR: RAY ORCHARD, APPELEGATE (1986); CHARLES CORK, PECK (1985, 1984)

COUNTY EXTENSION DIRECTOR: REX SIETING, SANDUSKY

TABLE 13 (CONTINUED)

NORTH CENTRAL MICHIGAN
SAGINAW COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	2		3	2		3	2		3
	1986	YR	YR	1986	YR	YR	1986	YR	YR
SOHIGRO S-32	22.2	22	--	148.6	125	--	2.8	2	--
*DEKALB-PFIZER DK484	22.3	22	24	191.2	153	153	2.2	1	2
*FUNK G-4327	22.3	--	--	178.0	--	--	3.6	--	--
CARGILL 131759	22.3	--	--	131.8	--	--	3.6	--	--
RENK RK17A	22.3	22	--	147.6	127	--	4.7	2	--
GLENN & GARNO GX905	22.3	--	--	150.6	--	--	0.0	--	--
*GREAT LAKES GL-498	22.4	22	--	179.1	151	--	2.9	1	--
PRIDE 3376	22.4	23	--	155.4	135	--	0.0	0	--
BETASEED INGRID	22.4	--	--	172.1	--	--	4.6	--	--
SELECT 3100	22.4	22	24	162.3	142	148	0.0	0	1
DAIRYLAND DX1103	22.4	--	--	163.5	--	--	3.8	--	--
FUNK G-4326	22.5	24	25	164.4	146	150	1.5	1	1
P-A-G SX123	22.5	--	--	149.0	--	--	3.3	--	--
BETASEED GRETTEL	22.6	--	--	148.4	--	--	3.0	--	--
MCKENZIE 507	22.6	--	--	167.5	--	--	4.3	--	--
*CALLAHAN C747	22.6	23	--	176.6	150	--	2.2	1	--
GARNO S-94X	22.7	--	--	141.5	--	--	0.7	--	--
CARGILL 842	22.7	23	--	158.9	127	--	1.4	1	--
GOLDEN HARVEST H-2344	22.7	22	--	169.9	132	--	0.0	2	--
JACQUES EXP.5104	22.8	--	--	164.5	--	--	3.6	--	--
NORTHROP KING PX9283	22.8	--	--	140.1	--	--	2.2	--	--
*PIONEER 3475	22.8	--	--	183.0	--	--	1.5	--	--
*KING K5574	22.8	24	--	190.7	153	--	2.2	3	--
*ANDERSONS PSX100	22.8	--	--	182.7	--	--	2.1	--	--
STAUFFER SEEDS S4414	22.9	23	--	138.0	120	--	0.7	1	--
CARGILL 839	22.9	23	--	171.1	133	--	1.5	1	--
RENK RK25	22.9	23	25	133.3	120	130	3.8	2	3
*GLENN & GARNO GX988	22.9	--	--	177.2	--	--	0.0	--	--
*STAUFFER SEEDS S5340	23.0	23	25	178.6	145	147	0.0	0	1
*NORTHROP KING PX9385	23.0	--	--	178.8	--	--	0.0	--	--
AGRIPRO TS60	23.0	--	--	151.4	--	--	2.9	--	--
PRO-SEED HL-2830	23.0	--	--	169.3	--	--	4.3	--	--
*AGRIPRO AP391	23.1	23	--	180.9	147	--	1.4	1	--
RENK RK60	23.1	24	26	147.9	129	137	1.5	1	1
*PAYCO SX872	23.1	--	--	186.6	--	--	0.0	--	--
CARDINAL SX112	23.2	24	--	165.2	138	--	3.7	3	--
*SUPER CROST 2989	23.2	24	--	202.1	156	--	2.3	2	--
GARNO S-95X	23.2	22	--	155.5	141	--	0.0	1	--
KING K4484	23.2	--	--	162.4	--	--	0.0	--	--
DAIRYLAND DX1008	23.2	--	--	167.0	--	--	3.7	--	--
RUPP EXP.504	23.3	--	--	168.5	--	--	1.4	--	--
*STANTON SX100	23.3	23	24	179.5	139	137	2.5	1	2
*ASGROW/O'S GOLD 6880	23.3	25	26	178.0	150	147	4.2	2	5
FARMERS FCC4235	23.3	--	--	163.4	--	--	0.0	--	--
KING K4464	23.4	--	--	136.8	--	--	4.5	--	--
RENK RK64	23.4	24	25	162.8	138	146	4.4	2	2
RENK RK26	23.4	--	--	139.3	--	--	1.7	--	--
GREAT LAKES 85552	23.5	--	--	149.9	--	--	1.5	--	--
*GREAT LAKES GL-579	23.5	24	26	194.7	160	157	0.8	0	0
DAIRYLAND DX1107	23.5	24	26	158.4	139	145	0.7	1	1

(continued below)

TABLE 13

NORTH CENTRAL MICHIGAN
SAGNAW COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
MCKENZIE 807	20.8	--	--	137.8	--	--	2.1	--	--
DAIRYLAND DX1097	20.9	21	22	156.5	137	135	1.7	1	1
DAIRYLAND DX1089	20.9	--	--	142.1	--	--	3.7	--	--
PIONEER 3779	21.0	21	--	151.7	120	--	4.4	2	--
GREAT LAKES GL-414	21.1	21	--	154.7	133	--	4.5	2	--
MCKENZIE 502	21.2	--	--	145.7	--	--	3.8	--	--
KING K2204	21.3	21	22	139.7	114	117	5.5	3	3
BETASEED EXP.336	21.3	--	--	139.7	--	--	0.7	--	--
STANTON SX95	21.3	21	23	163.1	142	141	2.1	1	2
CARDINAL 2820	21.4	21	22	137.9	116	126	1.5	2	3
STAUFFER SEEDS S3306	21.5	22	23	157.0	136	142	3.0	2	2
GREAT LAKES GL-437	21.5	22	--	143.4	127	--	0.8	1	--
PAYCO SX500	21.5	21	--	154.4	131	--	3.6	2	--
CARDINAL 3222	21.6	21	22	146.5	132	139	2.3	3	4
PIONEER 3901	21.7	21	--	164.1	133	--	1.7	2	--
RUPP XR1555	21.7	--	--	161.8	--	--	2.2	--	--
DEKALB-PFIZER DK461	21.8	21	--	175.0	141	--	3.7	3	--
GREAT LAKES GL-487	21.8	21	23	167.0	140	147	4.3	3	4
NORTHROP KING PX9353	21.8	22	23	169.6	151	154	2.2	1	1
COUNTRYMARK C433X	21.8	--	--	151.6	--	--	2.2	--	--
BETASEED EXP.226	21.8	--	--	135.7	--	--	0.7	--	--
*PAYCO SX611	21.8	--	--	176.9	--	--	1.4	--	--
GLENN & GARNO GX888	21.8	--	--	174.5	--	--	5.8	--	--
FUNK G-4312	21.9	22	--	174.3	140	--	2.1	1	--
JACQUES 4750	21.9	--	--	137.3	--	--	1.7	--	--
P-A-G SX180	21.9	22	23	159.2	140	139	4.4	3	3
PIONEER 3737	21.9	22	23	167.0	133	139	3.7	3	4
PIONEER 3790	21.9	--	--	133.9	--	--	2.9	--	--
ASGROW/O'S GOLD RX480	21.9	22	24	171.9	145	142	3.1	2	2
KING K416	21.9	21	--	166.5	131	--	1.5	1	--
*COUNTRYMARK C454X	21.9	--	--	177.3	--	--	2.1	--	--
DAIRYLAND DX1096	21.9	21	23	174.2	140	143	4.3	3	4
PICKSEED 5575	21.9	21	--	141.2	128	--	0.7	0	--
SOHIGRO S-25	21.9	22	--	132.4	131	--	0.0	0	--
GRIES X-224	22.0	--	--	132.8	--	--	0.8	--	--
NORTHROP KING PX9292	22.0	--	--	149.9	--	--	2.2	--	--
P-A-G 223229	22.0	--	--	165.5	--	--	0.7	--	--
AGRIPRO HP277	22.0	22	--	152.8	133	--	2.1	1	--
PRIDE 4422	22.0	22	--	160.5	142	--	2.1	1	--
ANDERSONS PSX93	22.0	21	22	138.9	111	117	3.9	3	3
GLENN & GARNO GX906	22.0	22	--	130.5	112	--	1.4	1	--
STAUFFER SEEDS S4454WX	22.1	22	--	151.7	123	--	1.4	1	--
*DEKALB-PFIZER DK524	22.1	22	--	180.3	147	--	2.3	1	--
*PIONEER 3744	22.1	22	23	177.4	150	149	3.0	2	2
PRIDE X945	22.1	--	--	141.4	--	--	3.5	--	--
SELECT 2626	22.1	--	--	152.5	--	--	0.8	--	--
SOHIGRO S-28	22.1	22	--	167.4	148	--	0.8	1	--
SUPER CROST 2140	22.2	--	--	146.6	--	--	1.5	--	--
*CARGILL 859	22.2	22	--	178.4	154	--	0.7	0	--
RENK RK19	22.2	22	24	140.9	133	145	2.9	1	1

(continued top right)

*DAIRYLAND DX1108	23.5	--	--	184.8	--	--	5.8	--	--
*ANDERSONS PSX105	23.5	25	27	183.5	152	154	0.0	1	1
VORIS V2451	23.5	24	26	149.6	139	145	0.7	1	1
GLENN & GARNO GX944	23.5	--	--	161.5	--	--	5.7	--	--
GRIES X-500	23.6	--	--	172.5	--	--	0.7	--	--
DAIRYLAND DX1006	23.6	24	25	155.8	139	143	4.4	3	4
GOLDEN HARVEST H-2424	23.6	24	24	167.7	140	142	0.8	0	1
*STAUFFER SEEDS S5750	23.7	--	--	179.3	--	--	0.0	--	--
*PRO-SEED HL-2727A	23.7	--	--	178.0	--	--	1.4	--	--
CARGILL 829	23.7	23	24	149.2	125	130	2.1	1	3
*CARGILL 130409	23.7	--	--	189.8	--	--	2.1	--	--
PRO-SEED HL-2454	23.7	--	--	153.1	--	--	3.6	--	--
RENK R148	23.8	23	--	137.6	128	--	2.8	1	--
*GOLDEN HARVEST H-2480	23.8	26	27	191.7	152	150	0.0	1	1
VORIS EXP.2455	23.8	--	--	166.0	--	--	0.8	--	--
DAIRYLAND DX1105	23.9	23	25	174.7	136	144	3.7	2	3
*PRO-SEED HL-2803	24.0	--	--	197.2	--	--	1.4	--	--
SELECT 3720	24.0	24	25	165.1	144	152	0.7	0	2
DAIRYLAND DX1102	24.1	23	--	137.3	115	--	0.0	1	--
FARMERS FCC4255	24.1	--	--	158.5	--	--	0.0	--	--
*RENK RK68	24.3	--	--	179.5	--	--	1.5	--	--
*SOHIGRO S-40	24.3	--	--	190.3	--	--	0.8	--	--
DAIRYLAND DX1005	24.4	--	--	141.9	--	--	1.5	--	--
RUPP XR1639	24.4	24	--	155.0	131	--	0.0	0	--
*ANDERSONS PSX107E	24.5	--	--	182.6	--	--	0.8	--	--
AGRIPRO 644	25.0	--	--	133.1	--	--	2.9	--	--
*RENK RK76	25.1	26	--	195.9	152	--	2.2	1	--
CALLAHAN C754	25.1	25	--	162.8	124	--	0.7	1	--
CALLAHAN C766	25.6	--	--	171.6	--	--	1.4	--	--
AGRIPRO 680	25.9	--	--	147.5	--	--	3.6	--	--
AVERAGE	22.7	23	24	161.3	137	142	2.1	1	2
RANGE	20.8	21	22	130.5	111	117	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	25.9	26	27	202.1	160	157	5.8	3	5
LEAST SIGNIFICANT DIFFERENCE	1.4	1.0	0.8	15.2	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 1	MAY 3	MAY 9
HARVESTED	NOVEMBER 5	NOVEMBER 6	OCTOBER 25
SOIL TYPE	PARKHILL LOAM	PARKHILL LOAM	PARKHILL LOAM
PREVIOUS CROP	SUGAR BEETS	SUGAR BEETS	SUGAR BEETS
POPULATION	21,600	21,800	21,200
ROWS	30"	30"	30"
FERTILIZER	287-56-56	214-66-162	244-79-161 +ZN + S
SOIL TEST: PH	7.5	7.4	7.3
P	185(VERY HIGH)	111(VERY HIGH)	123(VERY HIGH)
K	329(VERY HIGH)	551(VERY HIGH)	372(VERY HIGH)

FARM COOPERATOR: REINOLD FARMS, REESE

COUNTY AGRICULTURAL AGENT: STEVE POINDEXTER, SAGNAW

TABLE 14

NORTH CENTRAL MICHIGAN
HURON COUNTY TRIAL- GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	2	3		2	3		2	3	
	1986	YR	YR	1986	YR	YR	1986	YR	YR
PAYCO SX500	20.1	--	--	119.3	--	--	5.5	--	--
MAIZEX MX290	20.3	--	--	121.5	--	--	2.5	--	--
ANDERSONS PSX85	20.6	--	--	105.5	--	--	5.8	--	--
DEKALB-PFIZER DK397	20.8	--	--	109.7	--	--	2.4	--	--
GREAT LAKES GL-437	21.3	22	--	117.8	127	--	3.3	2	--
STANTON SX90	21.3	20	22	93.4	98	103	3.9	6	5
GLENN & GARNO GX888	21.3	--	--	120.7	--	--	2.4	--	--
MAIZEX MX305	21.5	--	--	122.0	--	--	0.0	--	--
STANTON SX95	21.6	21	23	110.0	121	124	7.9	4	3
PIONEER 3790	21.7	--	--	107.0	--	--	2.4	--	--
P-A-G 223229	21.8	--	--	123.3	--	--	3.4	--	--
ANDERSONS PSX93	21.8	21	23	94.1	102	111	3.0	2	2
GREAT LAKES GL-422	22.0	21	23	123.7	143	140	2.5	2	2
*DEKALB-PFIZER DK461	22.2	22	--	128.7	135	--	3.8	3	--
SUPER CROST 1940	22.2	22	24	101.3	110	120	5.1	3	4
PRIDE 1194	22.2	--	--	120.9	--	--	1.6	--	--
FUNK 2034X	22.3	--	--	103.5	--	--	1.6	--	--
PIONEER 3779	22.3	22	--	109.6	131	--	0.8	0	--
PIONEER 3901	22.3	22	23	125.2	143	138	3.3	2	2
GARNO S-95X	22.4	--	--	112.7	--	--	3.4	--	--
WOLVERINE X198	22.4	22	--	111.7	134	--	6.5	4	--
DAIRYLAND DX1097	22.4	21	23	118.7	128	124	2.3	3	6
FUNK G-4211	22.5	24	25	99.4	117	119	3.8	3	4
GREAT LAKES GL-487	22.5	23	24	125.7	144	146	0.0	0	1
NORTHROP KING PX9283	22.5	--	--	100.7	--	--	2.3	--	--
PRIDE X945	22.5	--	--	110.6	--	--	5.0	--	--
MAIZEX MX300	22.5	--	--	112.9	--	--	4.3	--	--
CARGILL 859	22.5	23	--	121.2	138	--	2.3	3	--
*WOLVERINE W156	22.6	--	--	130.1	--	--	2.4	--	--
NORTHROP KING PX9353	22.6	--	--	120.3	--	--	2.4	--	--
SOHIGRO S-25	22.6	22	24	97.0	127	127	1.9	3	3
STAUFFER SEEDS S3303	22.7	22	--	124.3	135	--	5.2	4	--
SUPER CROST 1989	22.7	--	--	103.4	--	--	3.3	--	--
P-A-G SX123	22.7	22	--	103.6	122	--	3.4	2	--
RENK RK19	22.7	24	--	109.0	122	--	1.5	1	--
PRIDE 4422	22.8	23	25	119.8	135	138	2.2	1	2
PRIDE 3376	22.8	23	--	100.2	134	--	2.3	1	--
CARGILL 829	22.8	23	24	119.8	127	131	6.8	4	4
*RENK RK25	22.8	24	--	134.6	147	--	1.6	3	--
RENK RK17A	22.8	22	--	108.5	114	--	4.1	2	--
NORTHROP KING PX9345	22.9	23	--	116.2	141	--	0.8	1	--
*SELECT 3100	22.9	23	--	128.4	148	--	3.1	2	--
DEKALB-PFIZER DK484	23.0	24	26	125.8	138	142	1.5	1	2
FUNK G-4100	23.0	--	--	103.1	--	--	2.9	--	--
GREAT LAKES GL-466	23.0	--	--	112.7	--	--	5.6	--	--
GREAT LAKES 85548	23.0	--	--	126.9	--	--	1.6	--	--
KING K2204	23.0	22	24	100.9	117	119	1.6	1	1
*CARGILL 839	23.0	--	--	135.5	--	--	2.2	--	--
RENK RK26	23.0	--	--	117.6	--	--	3.7	--	--
*GOLDEN HARVEST H-2344	23.0	22	--	137.2	153	--	1.4	1	--

(continued below)

TABLE 14 (CONTINUED)

NORTH CENTRAL MICHIGAN
HURON COUNTY TRIAL- GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	2	3		2	3		2	3	
	1986	YR	YR	1986	YR	YR	1986	YR	YR
PAYCO SX847	24.9	--	--	112.6	--	--	2.5	--	--
SELECT 2772	25.2	--	--	101.5	--	--	0.8	--	--
DAIRYLAND DX1103	25.2	--	--	120.1	--	--	3.1	--	--
GREAT LAKES 85552	25.3	--	--	112.8	--	--	1.0	--	--
*KING K4464	25.4	--	--	128.9	--	--	1.6	--	--
SUPER CROST 2288	25.5	25	--	116.6	139	--	3.0	2	--
*GREAT LAKES 5922	25.6	26	27	149.4	155	154	0.0	0	1
STAUFFER SEEDS S4502	25.8	--	--	112.0	--	--	5.4	--	--
*GREAT LAKES GL-599	25.8	27	--	129.6	140	--	0.0	0	--
*STAUFFER SEEDS S7751	26.0	--	--	138.0	--	--	1.7	--	--
SOHIGRO S-35	26.1	26	27	117.7	128	134	1.5	1	1
GOLDEN HARVEST H-2572	26.3	27	29	114.7	135	135	2.3	1	1
RENK RK76	26.8	27	--	125.7	139	--	0.0	0	--
GREAT LAKES GL-624	28.0	--	--	125.1	--	--	2.2	--	--
CARGILL HT110	29.9	--	--	107.4	--	--	3.1	--	--
AVERAGE	23.5	24	25	117.8	134	133	2.8	2	3
RANGE	20.1	20	22	93.4	98	103	0.0	0	1
	T0	T0	T0	T0	T0	T0	T0	T0	T0
	29.9	27	29	149.4	155	154	10.2	6	10
LEAST SIGNIFICANT DIFFERENCE	1.8	1.4	0.8	10.4	8	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 1	MAY 2	MAY 4
HARVESTED	NOVEMBER 6	OCTOBER 29	OCTOBER 24
SOIL TYPE	KILMANAGH LOAM	KILMANAGH LOAM	KILMANAGH LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	19,100	21,500	20,700
ROWS	30"	30"	30"
FERTILIZER	148-62-99	197-63-129	234-123-18
SOIL TEST: PH	7.7	7.6	7.0
P	81 (HIGH)	85 (HIGH)	158 (VERY HIGH)
K	160 (MEDIUM)	180 (MEDIUM)	424 (VERY HIGH)

FARM COOPERATOR: WILLIAM MCCREA, BAD AXE

COUNTY AGRICULTURAL AGENT: JIM LE CUREUX, BAD AXE

ASGROW/O'S GOLD RX480	23.1	23	25	93.5	125	130	1.5	1	1
GLENN & GARNO GX906	23.1	23	--	93.6	111	--	1.4	1	--
STAUFFER SEEDS S4414	23.2	24	--	111.9	135	--	1.4	1	--
*PIONEER 3744	23.2	23	25	130.3	145	146	2.9	2	2
COUNTRYMARK C433X	23.2	--	--	109.9	--	--	3.2	--	--
DAIRYLAND DX1089	23.2	--	--	113.2	--	--	4.5	--	--
*ASGROW/O'S GOLD 2330	23.2	23	--	128.9	150	--	6.6	4	--
JACQUES 4750	23.3	--	--	95.3	--	--	3.1	--	--
P-A-G SX117	23.3	--	--	96.9	--	--	10.2	--	--
*PIONEER 3737	23.3	23	25	128.7	150	150	3.0	2	2
PRIDE 2244	23.3	--	--	108.0	--	--	2.2	--	--
KING K416	23.3	24	--	127.6	133	--	2.9	2	--
SELECT 2626	23.3	--	--	119.3	--	--	2.5	--	--
PICKSEED 5575	23.3	24	--	107.5	128	--	2.2	2	--
*SOHIGRO S-28	23.3	24	--	136.6	139	--	1.5	1	--
*FUNK G-4312	23.4	24	25	133.2	151	147	2.3	1	10
*GREAT LAKES GL-498	23.4	24	--	129.9	144	--	1.5	1	--
GLENN & GARNO GX905	23.4	--	--	95.2	--	--	2.3	--	--
*GARNO S-94X	23.5	--	--	128.3	--	--	1.5	--	--
CARGILL HT95	23.6	--	--	115.9	--	--	5.3	--	--
ANDERSONS PSX103E	23.6	--	--	120.6	--	--	0.0	--	--
*PIONEER 3475	23.7	--	--	128.2	--	--	1.6	--	--
COUNTRYMARK C454X	23.7	--	--	114.8	--	--	0.7	--	--
DAIRYLAND DX1107	23.7	25	27	123.2	139	139	1.5	1	1
JACQUES EXP.5104	23.8	--	--	120.9	--	--	7.5	--	--
DAIRYLAND DX1108	23.8	--	--	121.1	--	--	3.1	--	--
ANDERSONS PSX99	23.8	--	--	123.0	--	--	2.3	--	--
FUNK 3069X	23.9	--	--	122.3	--	--	0.8	--	--
WOLVERINE W163	23.9	--	--	123.8	--	--	5.5	--	--
STANTON SX100	23.9	24	26	124.3	146	140	0.8	1	1
*GREAT LAKES GL-540	24.0	25	--	131.4	139	--	3.4	2	--
DAIRYLAND DX1006	24.0	24	26	103.2	136	131	4.8	3	5
RENK RK64	24.0	26	--	127.4	139	--	0.9	0	--
SOHIGRO S-32	24.0	--	--	115.5	--	--	2.6	--	--
DAIRYLAND DX1005	24.1	--	--	102.7	--	--	3.6	--	--
*CARDINAL SX112	24.3	25	--	128.3	145	--	0.0	0	--
*DEKALB-PFIZER DK524	24.3	24	--	138.4	155	--	0.8	2	--
CARGILL HT105	24.3	--	--	124.5	--	--	3.9	--	--
PAYCO SX611	24.3	--	--	107.3	--	--	1.6	--	--
*GLENN & GARNO GX944	24.3	--	--	131.9	--	--	4.3	--	--
CARGILL 131759	24.4	--	--	114.0	--	--	1.5	--	--
RENK R148	24.5	24	--	116.5	141	--	2.3	1	--
FUNK G-4296	24.6	--	--	116.9	--	--	1.6	--	--
DAIRYLAND DX1102	24.6	25	--	103.4	133	--	2.4	2	--
*STAUFFER SEEDS S5340	24.7	26	28	143.3	136	139	2.2	2	1
GREAT LAKES GL-585	24.7	--	--	124.0	--	--	0.8	--	--
SELECT 3720	24.7	25	--	112.0	141	--	2.4	1	--
*CARGILL 874	24.7	25	--	128.5	143	--	1.5	1	--
*CARGILL 842	24.7	24	--	140.8	142	--	4.5	2	--
GLENN & GARNO GX988	24.7	--	--	121.1	--	--	5.2	--	--
CARDINAL 3222	24.8	23	24	112.6	120	125	2.3	3	3
*RENK RK68	24.8	--	--	145.3	--	--	4.3	--	--
GOLDEN HARVEST H-2480	24.8	26	--	122.2	129	--	3.7	2	--
GREAT LAKES GL-579	24.9	26	27	123.2	138	140	2.6	1	1
RENK RK60	24.9	26	--	112.9	137	--	0.8	1	--

(continued top right)

TABLE 15

NORTH CENTRAL MICHIGAN
HURON COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	DRY MATTER			GREEN WEIGHT			TONS PER ACRE			DRY WEIGHT		
	2		3	2		3	2		3	2		3
	1986	YR	YR	1986	YR	YR	1986	YR	YR	1986	YR	YR
STAUFFER SEEDS S3303	67.3	59.8	--	8.2	10.8	--	5.6	6.3	--			
P-A-G SX123	65.1	59.2	--	7.8	10.1	--	5.0	5.8	--			
P-A-G SX117	65.0	--	--	6.4	--	--	4.1	--	--			
CARDINAL 3222	64.6	55.8	47.5	8.2	11.6	15.5	5.4	6.2	6.5			
MAIZEX MX 300	64.1	--	--	8.8	--	--	5.7	--	--			
KING K2204	62.8	57.6	51.4	7.7	9.8	11.6	4.8	5.5	5.7			
STANTON SX90	62.4	57.4	49.1	7.8	9.1	11.9	4.8	5.1	5.3			
PIONEER 3790	61.7	--	--	7.7	--	--	4.7	--	--			
WOLVERINE W156	61.3	--	--	9.8	--	--	6.0	--	--			
FUNK G-4100	59.9	--	--	8.7	--	--	5.2	--	--			
PRIDE 2244	59.9	--	--	10.0	--	--	6.0	--	--			
PIONEER 3779	59.1	48.6	--	8.5	13.7	--	5.0	6.1	--			
MAIZEX MX290	59.1	--	--	8.3	--	--	4.9	--	--			
GOLDEN HARVEST H-2344	59.1	51.0	--	9.9	13.1	--	5.9	6.4	--			
PIONEER 3901	58.7	53.2	47.2	8.9	12.3	14.4	5.3	6.3	6.4			
FUNK 2034X	58.5	--	--	7.9	--	--	4.6	--	--			
DEKALB-PFIZER DK397	58.2	--	--	8.5	--	--	4.9	--	--			
PRIDE 1194	58.1	--	--	8.0	--	--	4.6	--	--			
DAIRYLAND DX1005	58.1	--	--	7.8	--	--	4.4	--	--			
GREAT LAKES GL-422	57.9	52.5	45.9	10.1	12.7	15.3	5.9	6.5	6.6			
GLENN & GARNO GX905	57.9	--	--	8.7	--	--	5.0	--	--			
GLENN & GARNO GX888	57.7	--	--	10.2	--	--	5.9	--	--			
NORTHROP KING PX9345	57.5	48.6	--	8.9	14.0	--	5.1	6.3	--			
GLENN & GARNO GX988	57.4	--	--	10.5	--	--	6.0	--	--			
DAIRYLAND DX1089	57.3	--	--	10.8	--	--	6.2	--	--			
ASGROW/O'S GOLD 2330	57.3	49.8	--	8.5	13.5	--	4.8	6.3	--			
STAUFFER SEEDS S4414	57.2	47.8	--	7.2	11.9	--	4.1	5.2	--			
JACQUES 4750	57.2	--	--	8.1	--	--	4.7	--	--			
ASGROW/O'S GOLD RX480	56.7	48.4	42.0	9.5	12.9	16.6	5.4	6.0	6.3			
RENK RK17A	56.5	51.5	--	8.0	11.2	--	4.6	5.6	--			
GREAT LAKES GL-437	56.4	49.8	--	8.9	12.1	--	5.0	5.8	--			
SUPER CROST 1940	56.3	47.6	42.5	7.9	12.2	16.0	4.5	5.5	6.2			
DEKALB-PFIZER DK484	56.0	47.2	41.1	11.0	14.8	18.1	6.1	6.6	6.8			
FUNK G-4211	56.0	47.0	41.3	7.5	13.0	14.4	4.2	5.6	5.5			
PAYCO SX500	56.0	54.3	--	8.9	11.1	--	5.1	6.1	--			
GARNO S-94X	55.9	--	--	8.0	--	--	4.3	--	--			
GARNO S-95X	55.9	--	--	9.7	--	--	5.4	--	--			
GREAT LAKES GL-487	55.9	48.9	42.7	10.0	13.9	16.7	5.6	6.5	6.6			
PAYCO SX611	55.9	--	--	9.4	--	--	5.3	--	--			
PIONEER 3737	55.8	48.8	42.7	10.0	14.3	16.2	5.6	6.7	6.5			
SOHIGRO S-32	55.8	--	--	9.9	--	--	5.5	--	--			
SUPER CROST 1989	55.7	--	--	8.5	--	--	4.7	--	--			
DAIRYLAND DX1097	55.4	52.4	46.3	7.3	10.7	14.1	4.0	5.5	6.0			
GREAT LAKES GL-466	55.3	--	--	9.8	--	--	5.4	--	--			
ANDERSONS PSX85	55.2	--	--	9.1	--	--	5.0	--	--			
CARGILL 829	55.1	52.0	45.3	10.0	11.8	14.9	5.5	6.1	6.3			
NORTHROP KING PX9283	55.0	--	--	9.9	--	--	5.4	--	--			
COUNTRYMARK C433X	55.0	--	--	11.3	--	--	6.2	--	--			
GREAT LAKES GL-498	54.9	49.5	--	10.0	13.0	--	5.5	6.3	--			
GLENN & GARNO GX906	54.9	47.2	--	8.9	12.3	--	4.9	5.5	--			

(continued next page)

TABLE 15 (CONTINUED)

NORTH CENTRAL MICHIGAN
HURON COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	2		3	2		3	2		3	2		3
	1986	YR	YR	1986	YR	YR	1986	YR	YR	1986	YR	YR
PRIDE 3376	54.5	45.0	--	10.4	14.4	--	5.6	6.0	--			
CARGILL 839	54.4	--	--	9.7	--	--	6.3	--	--			
FUNK 3069X	54.2	--	--	11.7	--	--	6.4	--	--			
CARGILL 842	54.2	45.6	--	10.8	14.9	--	5.9	6.4	--			
ANDERSONS PSX93	54.2	49.2	43.3	8.5	10.3	14.2	4.6	5.0	5.6			
STANTON SX95	54.2	51.0	44.3	8.8	11.6	13.5	4.8	5.8	5.7			
SUPER CROST 2288	54.1	47.0	--	9.4	13.7	--	5.1	6.1	--			
KING K416	54.1	47.9	--	9.4	12.3	--	5.1	5.7	--			
CARGILL 859	54.1	47.7	--	9.1	14.0	--	4.8	6.3	--			
CARGILL 131759	54.0	--	--	10.4	--	--	5.6	--	--			
CARGILL HT95	53.9	--	--	11.0	--	--	5.9	--	--			
GREAT LAKES 85548	53.7	--	--	10.1	--	--	5.4	--	--			
MAIZE MX305	53.6	--	--	8.6	--	--	4.6	--	--			
GLENN & GARNO GX944	53.6	--	--	11.9	--	--	6.4	--	--			
RENK RK19	53.5	45.2	--	12.0	16.2	--	6.4	7.0	--			
P-A-G 223229	53.4	--	--	11.8	--	--	6.3	--	--			
COUNTRYMARK C454X	53.4	--	--	11.0	--	--	5.8	--	--			
CARGILL 874	53.3	46.4	--	12.2	16.3	--	6.5	7.3	--			
SOHIGRO S-35	53.3	47.2	41.2	11.3	14.3	18.3	6.0	6.5	6.9			
SOHIGRO S-28	53.3	47.4	--	9.7	12.9	--	5.1	5.9	--			
DEKALB-PFIZER DK461	53.1	47.0	--	9.3	13.4	--	4.9	6.0	--			
FUNK G-4296	53.1	--	--	10.1	--	--	5.4	--	--			
STAUFFER SEEDS S4502	53.0	--	--	11.1	--	--	5.9	--	--			
FUNK G-4312	53.0	45.0	39.9	12.6	15.6	17.1	6.7	6.8	6.5			
GREAT LAKES GL-540	53.0	44.7	--	12.3	15.2	--	6.5	6.5	--			
DAIRYLAND DX1006	53.0	46.3	40.4	11.8	14.9	17.6	6.2	6.6	6.6			
DAIRYLAND DX1102	53.0	45.0	--	10.2	13.7	--	5.4	5.9	--			
DAIRYLAND DX1103	52.9	--	--	10.2	--	--	5.4	--	--			
RENK RK64	52.7	42.9	--	11.0	16.0	--	6.0	6.5	--			
CARDINAL SX112	52.6	44.3	--	9.8	15.0	--	5.1	6.2	--			
SELECT 3100	52.6	45.7	--	11.3	15.4	--	5.9	6.7	--			
PRIDE 4422	52.2	47.1	41.1	9.5	14.0	16.5	5.0	6.3	6.3			
STAUFFER SEEDS S5340	52.1	43.1	38.2	12.0	17.6	20.1	6.3	7.1	7.1			
WOLVERINE W163	52.1	--	--	10.6	--	--	5.5	--	--			
PIONEER 3744	52.1	45.3	38.9	9.7	14.8	17.6	5.0	6.3	6.2			
GREAT LAKES 85552	52.0	--	--	10.4	--	--	5.4	--	--			
DEKALB-PFIZER DK524	51.9	44.1	--	12.5	16.6	--	6.5	7.0	--			
GREAT LAKES GL-585	51.9	--	--	11.8	--	--	6.1	--	--			
DAIRYLAND DX1107	51.9	44.0	38.7	11.8	16.1	20.5	6.1	6.7	7.2			
GREAT LAKES GL-579	51.8	43.6	38.6	12.5	16.8	19.8	6.5	7.0	7.1			
WOLVERINE X198	51.6	48.8	--	9.3	12.2	--	4.8	5.8	--			
PAYCO SX847	51.6	--	--	11.8	--	--	6.0	--	--			
SELECT 2626	51.5	--	--	9.2	--	--	4.7	--	--			
NORTHROP KING PX9353	51.3	--	--	8.8	--	--	4.5	--	--			
SELECT 3720	51.2	43.0	--	12.1	17.7	--	6.2	7.1	--			
DAIRYLAND DX1108	51.2	--	--	9.8	--	--	5.0	--	--			
PIONEER 3475	51.1	--	--	11.5	--	--	5.9	--	--			
ANDERSONS PSX99	51.0	--	--	8.8	--	--	4.5	--	--			
PRIDE X945	50.8	--	--	9.7	--	--	4.9	--	--			
PICKSEED 5575	50.7	46.1	--	9.2	13.1	--	4.6	5.8	--			

(continued below)

TABLE 16

NORTH CENTRAL MICHIGAN
ISABELLA COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	2		3	2		3	2		3
	1986	YR	YR	1986	YR	YR	1986	YR	YR
ANDERSONS PSX85	20.1	--	--	118.2	--	--	2.2	--	--
STAUFFER SEEDS S3303	20.3	--	--	126.0	--	--	2.2	--	--
PRIDE 1194	20.4	--	--	124.0	--	--	5.7	--	--
BETASEED EXP.336	20.7	--	--	118.4	--	--	5.4	--	--
PAYCO SX500	20.8	21	--	90.8	95	--	2.3	2	--
BETASEED GRETTEL	20.9	--	--	105.4	--	--	6.0	--	--
GLENN & GARNO GX888	21.2	--	--	122.7	--	--	1.5	--	--
STANTON SX90	21.3	22	22	105.4	91	89	4.3	5	4
SUPER CROST 1989	21.4	--	--	112.5	--	--	3.8	--	--
DAIRYLAND DX1087	21.4	22	--	128.5	107	--	6.0	4	--
ANDERSONS QSX85	21.4	22	--	86.6	80	--	21.9	13	--
MCKENZIE 502	21.5	--	--	136.4	--	--	3.4	--	--
P-A-G SX123	21.6	--	--	112.6	--	--	4.2	--	--
PIONEER 3779	21.7	23	--	132.9	131	--	1.7	2	--
DAIRYLAND DX1089	21.9	--	--	113.4	--	--	8.6	--	--
PRIDE 2204	22.0	--	--	116.9	--	--	0.0	--	--
BETASEED EXP.226	22.0	--	--	106.2	--	--	3.1	--	--
*BETASEED INGRID	22.0	--	--	141.9	--	--	5.0	--	--
WOLVERINE W130	22.1	23	--	106.2	101	--	4.6	3	--
ANDERSONS PSX93	22.1	22	22	123.8	104	100	1.4	1	1
NORTHROP KING PX9161	22.2	--	--	102.9	--	--	9.5	--	--
DAIRYLAND DX1097	22.2	23	23	140.4	125	109	2.6	3	2
PICKSEED 5574	22.2	23	--	134.4	129	--	2.3	3	--
GLENN & GARNO GX906	22.2	23	--	105.8	99	--	4.9	3	--
*GREAT LAKES GL-422	22.3	23	23	143.5	128	120	4.5	3	3
MCKENZIE 807	22.3	--	--	121.1	--	--	4.1	--	--
DEKALB-PFIZER DK397	22.4	--	--	103.3	--	--	0.8	--	--
FUNK 2034X	22.4	--	--	121.0	--	--	1.5	--	--
NORTHROP KING PX9283	22.4	--	--	110.6	--	--	2.9	--	--
KING K2204	22.4	22	22	126.6	113	103	1.5	1	1
GLENN & GARNO GX905	22.4	--	--	104.8	--	--	3.9	--	--
DEKALB-PFIZER DK415	22.6	--	--	118.7	--	--	2.3	--	--
SUPER CROST 1940	22.6	24	24	137.2	126	117	2.9	2	3
CARGILL 809	22.6	21	--	121.2	97	--	3.0	4	--
FUNK G-4211	22.7	24	24	134.4	123	108	0.8	2	2
*PIONEER 3901	22.7	23	23	141.7	125	118	3.1	3	2
PRIDE X945	22.7	--	--	127.5	--	--	2.3	--	--
PIONEER 3790	22.8	--	--	123.2	--	--	5.2	--	--
ANDERSONS QSX90	22.8	--	--	119.0	--	--	3.8	--	--
COUNTRYMARK C433X	22.9	--	--	130.4	--	--	3.1	--	--
PIONEER 3737	23.0	--	--	139.6	--	--	0.7	--	--
COUNTRYMARK C454X	23.0	--	--	126.9	--	--	0.7	--	--
GREAT LAKES GL-487	23.1	24	24	128.6	129	119	0.8	0	1
*STAUFFER SEEDS S3306	23.2	24	24	152.3	134	124	3.1	2	1
FUNK G-4100	23.2	--	--	104.7	--	--	3.8	--	--
JACQUES EXP.85100	23.2	--	--	106.0	--	--	5.5	--	--
*CARGILL 839	23.2	25	--	147.1	126	--	2.3	2	--
CARGILL 819	23.3	--	--	128.0	--	--	2.2	--	--
*STANTON SX95	23.3	23	23	143.3	115	108	2.2	3	2
GLENN & GARNO GX944	23.3	--	--	129.8	--	--	1.5	--	--

(continued below)

JACQUES EXP.5104	50.6	--	--	10.2	--	--	5.2	--	--
KING K4464	50.5	--	--	11.7	--	--	5.9	--	--
RENK RK60	50.3	41.9	--	12.4	16.5	--	6.2	6.6	--
RENK RK26	50.3	--	--	9.4	--	--	4.7	--	--
GOLDEN HARVEST H-2480	50.2	43.1	--	8.9	14.2	--	4.5	5.8	--
SOHIGRO S-25	49.7	45.2	39.8	9.4	12.9	16.7	4.7	5.7	6.1
RENK RK25	49.6	42.9	--	9.5	14.7	--	4.7	5.9	--
ANDERSONS PSX103E	49.3	--	--	12.5	--	--	6.2	--	--
STANTON SX100	49.1	44.0	38.6	12.2	14.3	16.5	6.0	6.2	6.0
SELECT 2772	49.0	--	--	11.3	--	--	5.5	--	--
RENK RK68	49.0	--	--	9.9	--	--	4.8	--	--
RENK R148	48.5	41.8	--	10.1	16.0	--	4.9	6.3	--
GREAT LAKES 5922	48.5	41.3	36.5	13.6	18.1	21.7	6.6	7.1	7.3
CARGILL HT110	48.4	--	--	13.8	--	--	6.7	--	--
GREAT LAKES GL-599	47.6	39.4	--	13.2	19.9	--	6.2	7.3	--
GOLDEN HARVEST H-2572	46.9	40.0	34.3	15.3	20.0	22.1	7.2	7.7	7.1
CARGILL HT105	45.6	--	--	11.1	--	--	5.0	--	--
STAUFFER SEEDS S7751	44.0	--	--	15.3	--	--	6.7	--	--
RENK RK76	43.9	37.2	--	15.1	20.4	--	6.4	7.1	--
GREAT LAKES GL-624	42.5	--	--	15.3	--	--	6.5	--	--
AVERAGE	45.8	47.4	42.2	10.1	14.0	16.6	5.5	6.3	6.4
RANGE	42.5	37.2	34.3	6.4	9.1	11.6	4.0	5.0	5.3
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	67.3	59.8	51.4	15.3	20.4	22.1	7.2	7.7	7.3
LEAST SIGNIFICANT DIFFERENCE	3.8	2.6	1.7	1.6	1.4	1.1	0.7	0.5	0.5

	1986	1985	1984
PLANTED	MAY 1	MAY 2	MAY 4
HARVESTED	OCTOBER 10	SEPTEMBER 19	SEPTEMBER 13
SOIL TYPE	KILMANAGH LOAM	KILMANAGH LOAM	KILMANAGH LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	20,000	21,900	21,000
ROWS	30"	30"	30"
FERTILIZER	148-62-99	197-63-129	234-123-8
SOIL TEST: PH	7.7	7.6	7.0
P	81(HIGH)	85(HIGH)	158(VERY HIGH)
K	160(MEDIUM)	180(MEDIUM)	424(VERY HIGH)

FARM COOPERATOR: WILLIAM MCCREA, BAD AXE

COUNTY AGRICULTURAL AGENT: JIM LE CUREAUX, BAD AXE

CARGILL 829	23.4	24	--	110.6	98	--	4.7	3	--
RUPP XR1555	23.5	--	--	137.5	--	--	2.3	--	--
JACQUES 4750	23.6	--	--	133.8	--	--	3.5	--	--
*WOLVERINE W156	23.6	--	--	148.6	--	--	3.0	--	--
*GREAT LAKES GL-498	23.7	25	--	144.9	135	--	3.4	2	--
CARDINAL 3222	23.8	24	24	118.7	102	102	3.3	2	2
FUNK G-4296	23.8	--	--	131.2	--	--	0.7	--	--
*GREAT LAKES 85548	23.8	--	--	153.6	--	--	1.7	--	--
*KING K416	23.8	--	--	142.6	--	--	1.4	--	--
ASGROW/O'S GOLD 2330	23.8	--	--	118.8	--	--	3.6	--	--
DAIRYLAND DX1102	23.9	25	--	109.5	113	--	7.8	4	--
PAYCO SX611	23.9	--	--	129.0	--	--	0.0	--	--
*PIONEER 3744	24.1	24	24	144.2	135	126	0.0	0	0
*DEKALB-PFIZER DK524	24.2	24	--	152.1	137	--	0.0	1	--
*DAIRYLAND DX1103	24.2	--	--	152.0	--	--	2.3	--	--
*CARGILL 859	24.5	--	--	147.1	--	--	0.8	--	--
MCKENZIE 507	24.6	25	--	129.7	111	--	0.0	0	--
*STAUFFER SEEDS S4454WX	25.0	26	--	142.9	124	--	2.3	2	--
*CARGILL 131759	25.0	--	--	142.2	--	--	0.0	--	--
*WOLVERINE W163	25.2	--	--	147.2	--	--	2.4	--	--
*KING K4464	25.2	--	--	152.0	--	--	1.6	--	--
RUPP EXP.504	26.1	--	--	139.1	--	--	0.8	--	--
*GLENN & GARNO GX988	26.3	--	--	149.1	--	--	0.8	--	--
*STANTON SX100	26.4	27	26	157.4	139	128	0.0	1	2
*CARDINAL SX112	26.8	27	--	157.9	137	--	0.0	0	--
GREAT LAKES 85552	26.8	--	--	119.0	--	--	0.0	--	--
RUPP XR1639	27.7	28	--	134.1	132	--	3.9	2	--
AVERAGE	23.1	24	23	127.5	117	112	3.1	3	2
RANGE	20.1	21	22	86.6	80	89	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.7	28	26	157.9	139	128	21.9	13	4
LEAST SIGNIFICANT DIFFERENCE	1.6	1.0	0.8	13.6	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 5	MAY 1	MAY 7
HARVESTED	NOVEMBER 3	OCTOBER 29	NOVEMBER 2
SOIL TYPE	ITHACA LOAM	ITHACA LOAM	ITHACA LOAM
PREVIOUS CROP	NAVY BEANS	NAVY BEANS	WHEAT AND MAMMOTH SWEET CLOVER
POPULATION	20,100	21,800	21,400
ROWS	30"	30"	30"
FERTILIZER	136-81-135 + ZINC	148-68-158	145-81-147
SOIL TEST: PH	6.7	6.8	7.5
P	94(HIGH)	98(HIGH)	102(HIGH)
K	363(VERY HIGH)	384(VERY HIGH)	360(VERY HIGH)

FARM COOPERATORS: BILL, FRED AND STEVE ZELEN, BEAL CITY

COUNTY EXTENSION DIRECTOR: LYLE THOMPSON, MT. PLEASANT

TABLE 17

NORTH CENTRAL MICHIGAN
MONTCALM COUNTY TRIAL - IRRIGATED VS. NOT IRRIGATED
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE						STALK LODGING					
	1986	2	3	1986	2	2	3	3	1986	2	2	3	3		
		YR	YR		NON	NON	YR	YR		NON	NON	YR	YR	NON	NON
		IRR	IRR		IRR	IRR	IRR	IRR		IRR	IRR	IRR	IRR	IRR	IRR
NORTHROP KING PX9161	20.9	--	--	158.8	124.4	--	--	--	--	0.0	8.6	--	--	--	--
MCKENZIE 807	21.0	--	--	159.6	118.6	--	--	--	--	1.5	9.7	--	--	--	--
KING K2204	21.2	21	22	163.2	117.8	166	135	160	109	2.2	14.7	2	7	2	6
GLENN & GARNO GX888	21.3	--	--	186.8	136.3	--	--	--	--	2.1	9.4	--	--	--	--
DAIRYLAND DX1089	21.5	--	--	153.7	124.1	--	--	--	--	2.2	5.3	--	--	--	--
ANDERSONS PSX93	21.8	21	23	170.5	122.2	163	132	152	106	2.2	11.0	1	6	1	5
PAYCO SX500	21.8	22	--	173.1	129.7	189	152	--	--	2.2	9.3	2	5	--	--
PIONEER 3779	22.0	22	--	186.6	130.0	172	135	--	--	2.3	4.0	2	2	--	--
STANTON SX90	22.0	22	23	167.3	105.5	155	119	150	98	0.0	17.5	9	12	8	9
FUNK G-4211	22.1	22	22	154.9	118.0	152	128	153	109	3.0	7.5	2	4	2	4
PIONEER 3790	22.1	--	--	167.1	122.8	--	--	--	--	2.3	4.4	--	--	--	--
CARGILL 829	22.2	23	--	167.4	133.0	161	138	--	--	4.3	7.2	4	5	--	--
FUNK 2034X	22.4	--	--	161.9	131.3	--	--	--	--	0.7	4.3	--	--	--	--
TRELAY 3035	22.4	--	--	171.4	126.8	--	--	--	--	2.2	5.9	--	--	--	--
NORTHROP KING PX9283	22.5	--	--	150.5	119.3	--	--	--	--	2.2	2.8	--	--	--	--
DAIRYLAND DX1097	22.5	22	23	192.7	147.0	178	147	162	117	2.1	9.4	1	5	3	5
GREAT LAKES GL-437	22.6	23	--	176.8	141.1	177	151	--	--	0.7	1.4	0	1	--	--
**PIONEER 3901	22.6	22	23	201.5	156.5	206	169	196	139	0.0	9.9	0	5	0	5
ANDERSONS QSX90	22.6	23	--	162.3	115.2	151	124	--	--	2.9	8.0	3	6	--	--
**FUNK 3069X	22.7	--	--	201.9	162.1	--	--	--	--	2.9	2.8	--	--	--	--
WOLVERINE W156	22.8	--	--	169.2	127.4	--	--	--	--	3.8	7.9	--	--	--	--
**STAUFFER SEEDS S3306	22.9	22	24	210.8	159.3	201	162	186	133	2.1	11.4	1	6	1	4
JACQUES 4750	22.9	--	--	167.1	137.0	--	--	--	--	1.5	5.9	--	--	--	--
STAUFFER SEEDS S4414	23.0	23	--	190.2	138.3	179	144	--	--	2.9	4.3	2	3	--	--
GREAT LAKES GL-487	23.0	--	--	192.3	149.5	--	--	--	--	3.5	9.4	--	--	--	--
**PIONEER 3737	23.0	23	24	213.0	161.9	187	155	187	132	1.4	4.9	2	2	2	4
**P-A-G 223229	23.1	--	--	207.5	159.4	--	--	--	--	2.9	9.8	--	--	--	--
**CARGILL 859	23.1	24	--	221.1	164.8	216	174	--	--	0.7	5.2	1	3	--	--
GOLDEN HARVEST EX719	23.1	--	--	195.2	149.8	--	--	--	--	2.1	4.2	--	--	--	--
**PICKSEED 5575	23.1	23	--	202.5	158.4	187	156	--	--	0.7	8.6	1	5	--	--
* SUPER CROST 1940	23.2	23	24	202.2	151.1	205	162	194	132	0.7	16.3	0	9	1	9
STAUFFER SEEDS S4502	23.3	--	--	196.4	143.5	--	--	--	--	2.8	5.0	--	--	--	--
COUNTRYMARK C433X	23.3	--	--	190.1	145.9	--	--	--	--	0.0	6.4	--	--	--	--
MCKENZIE 502	23.3	--	--	163.1	133.1	--	--	--	--	1.4	5.6	--	--	--	--
GLENN & GARNO GX905	23.4	--	--	164.2	130.3	--	--	--	--	2.1	2.8	--	--	--	--
**PIONEER 3744	23.5	24	25	212.9	162.1	203	168	191	139	2.9	2.2	1	1	2	2
COUNTRYMARK C454X	23.5	--	--	178.0	135.4	--	--	--	--	1.5	4.6	--	--	--	--
CARGILL 839	23.5	--	--	183.7	150.6	--	--	--	--	2.9	11.5	--	--	--	--
**GREAT LAKES GL-466	23.6	23	24	217.9	156.9	212	166	200	137	0.0	9.1	1	5	2	6
KING K416	23.6	--	--	179.0	127.1	--	--	--	--	1.5	4.2	--	--	--	--
**CARGILL 842	23.6	25	--	202.0	155.5	205	166	--	--	3.8	6.9	3	4	--	--
GOLDEN HARVEST EX717	23.6	--	--	185.4	146.8	--	--	--	--	3.6	5.9	--	--	--	--

(continued below)

**DEKALB-PFIZER DK524	23.7	--	--	205.5	168.4	--	--	--	--	0.7	5.0	--	--	--	--
**SUPER CROST 2288	23.7	25	25	204.8	156.7	207	167	195	138	1.5	6.7	1	3	2	5
MCKENZIE 507	23.8	24	--	182.7	143.7	190	161	--	--	2.9	5.6	2	3	--	--

STANTON SX95	23.8	23	24	196.8	144.2	171	136	155	111	2.8	9.7	1	5	1	5
**GREAT LAKES GL-498	23.9	24	--	212.8	161.0	205	166	--	--	3.8	7.4	2	4	--	--
WOLVERINE W163	23.9	--	--	197.4	146.1	--	--	--	--	3.5	3.1	--	--	--	--
GARNO S-95X	24.0	--	--	181.9	132.4	--	--	--	--	0.7	4.5	--	--	--	--
GREAT LAKES 85548	24.0	--	--	172.5	133.2	--	--	--	--	1.5	7.5	--	--	--	--

ASGROW/O'S GOLD RX532	24.0	--	--	157.5	114.1	--	--	--	--	1.4	15.4	--	--	--	--
CARGILL 131759	24.1	--	--	177.4	146.5	--	--	--	--	0.7	4.0	--	--	--	--
DEKALB-PFIZER DK461	24.2	23	--	187.2	142.4	199	160	--	--	5.1	10.6	3	5	--	--
STANTON SX100	24.3	24	25	192.1	139.8	182	147	161	116	3.5	3.6	2	3	3	3
**DEKALB-PFIZER DK484	24.4	24	25	202.2	156.7	207	170	193	139	1.4	6.6	1	4	2	4

GLENN & GARNO GX944	24.4	--	--	192.0	142.6	--	--	--	--	2.1	2.1	--	--	--	--
KING K4464	24.5	--	--	174.1	139.8	--	--	--	--	0.7	5.8	--	--	--	--
ANDERSONS QSX95	24.6	--	--	154.2	130.5	--	--	--	--	2.8	3.6	--	--	--	--
GLENN & GARNO GX988	24.7	--	--	164.0	134.4	--	--	--	--	2.2	4.4	--	--	--	--
**GOLDEN HARVEST H-2480	24.8	26	28	207.2	167.5	207	172	197	140	2.2	6.7	1	4	1	3

JACQUES EXP. 5104	25.0	--	--	183.9	149.1	--	--	--	--	1.4	6.7	--	--	--	--
DAIRYLAND DX1103	25.3	--	--	179.4	134.5	--	--	--	--	0.7	6.3	--	--	--	--
**GLENN & GARNO GX1007	25.4	--	--	223.3	170.6	--	--	--	--	2.1	2.9	--	--	--	--
**STAUFFER SEEDS S5340	25.6	--	--	234.3	175.2	--	--	--	--	1.5	8.0	--	--	--	--
**GOLDEN HARVEST H-2465	25.9	--	--	234.1	169.8	--	--	--	--	2.1	6.7	--	--	--	--

**PAYCO SX847	26.4	--	--	202.4	154.7	--	--	--	--	0.0	8.3	--	--	--	--
STAUFFER SEEDS S5750	27.0	--	--	166.7	140.3	--	--	--	--	0.7	2.1	--	--	--	--
=====															
AVERAGE	23.5	23	24	185.4	141.5	187	152	177	125	2.0	6.9	2	5	2	5
=====															
RANGE	20.9	21	22	150.5	105.5	151	119	150	98	0.0	1.4	0	1	0	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.0	26	28	234.3	175.2	216	174	200	140	5.1	17.5	9	12	8	9
=====															
LEAST SIGNIFICANT															
DIFFERENCE	1.5	1.0	0.7	15.9	12.7	11	8	8	6	--	--	--	--	--	--
=====															

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986 - IRRIGATED

+SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986 - NOT IRRIGATED

	1986	1985	1984
PLANTED	APRIL 30	MAY 1	MAY 2
HARVESTED	NOVEMBER 1, 3	OCTOBER 30-31	OCTOBER 27
SOIL TYPE	MONTCALM-MCBRIDE SANDY LOAM	MONTCALM-MCBRIDE SANDY LOAM	MONTCALM-MCBRIDE SANDY LOAM
PREVIOUS CROP	SORGHUM-SUDAN	ALFALFA	POTATOES
POPULATION	22,300	22,000	21,000
ROWS	30"	30"	30"
FERTILIZER	253-135-135	253-135-135	340-125-125
IRRIGATION	5.25 INCHES	6 INCHES	8 INCHES
SOIL TEST: PH	6.1	5.6	6.6
P	576 (VERY HIGH)	505 (VERY HIGH)	555 (VERY HIGH)
K	337 (VERY HIGH)	184 (MEDIUM)	240 (HIGH)

FARM COOPERATOR: THERON COMDEN, MONTCALM RESEARCH FARM, LAKEVIEW

COUNTY EXTENSION DIRECTOR: DON SMUCKER, STANTON

TABLE 18

NORTHERN MICHIGAN
OCEANA-MASON COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 3

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	2	3		2	3		2	3	
	1986	YR	YR	1986	YR	YR	1986	YR	YR
DEKALB-PFIZER DK435	20.6	--	--	75.9	--	--	1.6	--	--
GLENN & GARNO GX888	21.2	--	--	91.9	--	--	3.0	--	--
DEKALB-PFIZER DK415	21.3	--	--	102.9	--	--	4.0	--	--
PAYCO SX500	21.3	22	--	80.3	108	--	7.8	5	--
GLENN & GARNO GX902	21.4	23	--	81.9	99	--	19.6	12	--
P-A-G SX123	21.5	22	--	74.0	107	--	21.6	15	--
P-A-G SX117	21.5	--	--	65.4	--	--	18.8	--	--
SUPER CROST 1940	21.7	23	24	76.4	119	125	6.4	4	3
*PIONEER 3779	21.7	23	--	110.5	141	--	5.8	3	--
KING K2204	21.7	22	23	73.8	116	117	7.1	5	4
CARGILL 809	21.7	21	--	68.0	93	--	4.5	7	--
*GREAT LAKES GL-437	21.8	23	--	113.2	136	--	2.9	3	--
COUNTRYMARK C433X	21.9	--	--	70.2	--	--	0.7	--	--
*GLENN & GARNO GX900	21.9	22	--	128.5	130	--	3.1	5	--
*PIONEER 3901	22.0	22	23	111.3	133	132	0.8	1	1
CARGILL 829	22.0	23	--	100.4	110	--	8.4	6	--
CARGILL 819	22.1	--	--	78.0	--	--	5.4	--	--
*GOLDEN HARVEST H-2344	22.1	24	--	127.1	143	--	2.3	2	--
PICKSEED 5575	22.1	--	--	88.7	--	--	7.7	--	--
GREAT LAKES GL-466	22.3	--	--	95.4	--	--	10.1	--	--
JACQUES 4750	22.4	--	--	98.5	--	--	2.4	--	--
*PIONEER 3737	22.4	24	24	125.9	145	147	2.2	4	3
KING K416	22.4	--	--	95.3	--	--	1.5	--	--
*GREAT LAKES GL-487	22.5	--	--	122.4	--	--	4.1	--	--
COUNTRYMARK C454X	22.6	--	--	80.2	--	--	4.0	--	--
GOLDEN HARVEST EX717	22.6	--	--	106.9	--	--	1.5	--	--
SUPER CROST 1989	22.7	--	--	74.9	--	--	2.8	--	--
JACQUES EXP.85100	22.7	--	--	94.7	--	--	2.2	--	--
GLENN & GARNO GX905	22.7	--	--	90.0	--	--	6.3	--	--
PAYCO SX611	22.9	--	--	99.0	--	--	2.5	--	--
ASGROW/O'S GOLD 2330	22.9	24	--	82.9	116	--	3.7	3	--
*GARNO S-90	23.0	--	--	121.9	--	--	4.4	--	--
*PIONEER 3744	23.1	25	25	121.4	134	133	2.2	1	1
PIONEER 3790	23.1	--	--	108.2	--	--	1.5	--	--
*CARGILL 839	23.1	--	--	121.3	--	--	2.2	--	--
*DEKALB-PFIZER DK484	23.2	25	25	110.8	141	141	3.3	2	2
FUNK G-4296	23.2	--	--	105.7	--	--	1.5	--	--
FUNK 2034X	23.3	--	--	87.4	--	--	2.3	--	--
*CARGILL 842	23.3	25	--	119.3	131	--	4.8	4	--
FUNK G-4211	23.5	24	24	104.1	113	121	8.5	5	3
GLENN & GARNO GX944	23.7	--	--	100.9	--	--	2.6	--	--
CARGILL 859	24.2	25	--	105.1	135	--	12.7	8	--
*KING K4464	25.5	--	--	120.2	--	--	1.5	--	--
AVERAGE	22.4	23	24	98.2	124	131	5.2	5	2
RANGE	20.6	21	23	65.4	93	117	0.7	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	25.5	25	25	128.5	145	147	21.6	15	4

(continued below)

TABLE 19 (CONTINUED)

NORTHERN MICHIGAN
GRAND TRAVERSE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 4

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	2	3		2	3		2	3	
	1986	YR	YR	1986	YR	YR	1986	YR	YR
KING K1173	24.4	--	--	84.1	--	--	2.3	--	--
BETASEED GRETCHEN	24.4	--	--	120.1	--	--	4.9	--	--
FUNK G-4100	24.5	--	--	103.6	--	--	4.5	--	--
*GREAT LAKES GL-422	24.5	26	26	136.0	126	122	0.0	2	4
*GLENN & GARNO GX900	24.5	26	--	149.0	124	--	2.2	3	--
JACQUES 4200	24.6	26	--	101.3	103	--	6.2	3	--
KING K2203	24.6	26	26	100.6	96	97	0.7	3	3
*PICKSEED 4555	24.6	26	--	134.2	124	--	0.0	2	--
COUNTRYMARK EXP.6276	24.7	--	--	94.9	--	--	0.8	--	--
COUNTRYMARK C333X	24.7	--	--	110.2	--	--	0.0	--	--
CARGILL 819	24.8	--	--	120.9	--	--	0.7	--	--
FUNK 2034X	25.2	--	--	99.6	--	--	1.0	--	--
GARNO S-90	25.2	27	26	130.6	121	119	0.9	2	6
PRIDE 2244	25.2	27	--	107.6	104	--	0.0	1	--
*CARGILL 839	25.2	--	--	144.7	--	--	0.0	--	--
CARDINAL 3222	25.4	28	28	116.2	119	111	1.5	2	5
GLENN & GARNO GX905	25.5	--	--	122.4	--	--	5.6	--	--
PAYCO 3X400	26.2	--	--	109.6	--	--	0.7	--	--
STAUFFER SEEDS S3303	26.4	--	--	114.7	--	--	1.5	--	--
STAUFFER SEEDS S3306	27.7	--	--	114.1	--	--	0.7	--	--
AVERAGE	24.3	26	26	119.2	115	109	2.2	2	4
RANGE	21.5	24	24	84.1	96	96	0.0	1	3
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.7	28	28	149.0	135	123	8.1	4	7
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	0.9	13.1	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 6	MAY 10	MAY 16
HARVESTED	NOVEMBER 4	NOVEMBER 6	OCTOBER 31
SOIL TYPE	COVENTRY-NEWAYGO LOAM	COVENTRY-NEWAYGO LOAM	COVENTRY-NEWAYGO LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	21,400	21,300	21,100
ROWS	30"	30"	30"
FERTILIZER	123-45-75	136-45-90	132-63-108
SOIL TEST: PH	6.8	7.0	7.2
P	334(VERY HIGH)	272(VERY HIGH)	289(VERY HIGH)
K	503(VERY HIGH)	448(VERY HIGH)	456(VERY HIGH)

FARM COOPERATOR: GEORGE SVEC, BUCKLEY

COUNTY AGRICULTURAL AGENT: STEVE FOUCH, TRAVERSE CITY

LEAST SIGNIFICANT DIFFERENCE	1.5	1.0	0.8	10.7	9	6	--	--	--
---------------------------------	-----	-----	-----	------	---	---	----	----	----

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 16	MAY 9	MAY 16
HARVESTED	NOVEMBER 14	NOVEMBER 1	OCTOBER 30
SOIL TYPE	MONTCALM LOAMY SAND & RUSSEAU FINE SAND	IOSCO SANDY LOAM	IOSCO SANDY LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	21,800	21,900	21,300
ROWS	30"	30"	30"
FERTILIZER	214-48-14	137-48-84	132-48-60, MANURE
IRRIGATION	NONE	4 INCHES	4 INCHES
SOIL TEST: PH	6.8	6.7	6.9
P	392(VERY HIGH)	201(VERY HIGH)	292(VERY HIGH)
K	434(VERY HIGH)	422(VERY HIGH)	555(VERY HIGH)

FARM COOPERATORS: ARTHUR AND JIM RAMTHUN, MONTAGUE (1986);
ROBERT AND AUGUST OHSE, CUSTER (1985, 1984)

COUNTY EXTENSION DIRECTORS: ED STRONG, HART (1986); BILL ROBB, SCOTTVILLE (1985, 1984)

TABLE 19 NORTHERN MICHIGAN ZONE 4
GRAND TRAVERSE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
NORTHROP KING PX9060	21.5	--	--	121.3	--	--	0.0	--	--
NORTHROP KING PX9151	22.4	24	24	114.5	110	111	2.2	3	4
CARGILL 809	22.4	--	--	127.2	--	--	8.1	--	--
GLENN & GARNO GX902	22.9	--	--	117.0	--	--	6.4	--	--
BETASEED EXP.216	23.2	--	--	123.9	--	--	3.6	--	--
ANDERSONS PSX85	23.2	--	--	104.7	--	--	4.2	--	--
PAYCO SX500	23.3	24	--	126.4	107	--	0.7	1	--
*NORTHROP KING PX9161	23.4	--	--	136.1	--	--	2.1	--	--
CARDINAL 2720	23.6	25	24	103.8	96	99	2.9	3	4
*PRIDE 1194	23.6	24	--	139.6	125	--	1.5	2	--
CARDINAL 2820	23.7	25	25	119.8	104	106	0.8	3	3
STAUFFER SEEDS S2206	23.8	--	--	115.3	--	--	3.7	--	--
KING K127	23.8	--	--	89.5	--	--	3.3	--	--
GREAT LAKES GL-414	23.9	25	--	127.5	118	--	0.0	2	--
KING K1184	23.9	24	24	112.0	96	96	0.7	3	5
*KING K2204	23.9	26	26	144.2	128	123	1.4	1	4
PICKSEED 2700	23.9	--	--	114.1	--	--	0.0	--	--
GLENN & GARNO GX888	23.9	--	--	130.8	--	--	6.3	--	--
STAUFFER SEEDS S2101WX	24.0	26	25	118.3	113	107	5.8	4	7
*PRIDE X945	24.0	--	--	145.8	--	--	0.0	--	--
*ANDERSONS PSX93	24.0	--	--	133.9	--	--	1.5	--	--
*GREAT LAKES 82351	24.1	26	--	147.3	135	--	1.7	2	--
GARNO S-89X	24.2	--	--	112.5	--	--	6.0	--	--
CARGILL 829	24.3	--	--	93.8	--	--	2.2	--	--
*FUNK G-4211	24.4	26	--	135.9	126	--	2.9	3	--

(continued top right)

TABLE 20

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

HYBRID (BRAND-VARIETY)	DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR	1986	2 YR	3 YR
FUNK G-4100	28.9	--	--	17.0	--	--	4.9	--	--	--	--	--
PIONEER 3949	27.4	28.6	--	17.8	16.9	--	4.9	4.8	--	--	--	--
KING K127	27.4	--	--	14.5	--	--	3.9	--	--	--	--	--
DAIRYLAND DX1097	27.3	26.6	27.1	19.5	21.5	20.6	5.4	5.7	5.5	--	--	--
PIONEER 3803	27.1	27.3	--	18.4	18.9	--	5.0	5.1	--	--	--	--
DAIRYLAND DX1087	26.8	28.2	--	18.8	19.0	--	5.0	5.3	--	--	--	--
KING K416	26.7	--	--	20.2	--	--	5.4	--	--	--	--	--
FUNK G-4089	26.2	--	--	17.0	--	--	4.4	--	--	--	--	--
JACQUES 4750	26.1	--	--	17.3	--	--	4.5	--	--	--	--	--
FUNK G-4081	25.9	--	--	17.7	--	--	4.7	--	--	--	--	--
ANDERSONS PSX93	25.9	26.4	26.7	18.1	19.0	19.2	4.7	5.0	5.1	--	--	--
COUNTRYMARK C333X	25.8	--	--	18.1	--	--	4.6	--	--	--	--	--
COUNTRYMARK EXP6276	25.6	--	--	13.3	--	--	3.4	--	--	--	--	--
DAIRYLAND DX1096	25.6	26.0	27.1	17.9	19.6	18.7	4.5	5.1	5.0	--	--	--
ANDERSONS PSX85	25.1	--	--	20.2	--	--	5.1	--	--	--	--	--
KING K1184	25.0	26.1	27.9	15.2	17.5	17.1	3.8	4.6	4.8	--	--	--
DAIRYLAND DX1089	25.0	--	--	16.4	--	--	4.1	--	--	--	--	--
GLENN & GARNO GX902	24.9	27.0	--	20.1	19.2	--	5.0	5.1	--	--	--	--
CARGILL HT95	24.7	--	--	19.6	--	--	4.8	--	--	--	--	--
GLENN & GARNO GX905	24.5	--	--	20.0	--	--	4.9	--	--	--	--	--
PIONEER 3779	23.6	25.1	--	19.5	20.4	--	4.6	5.1	--	--	--	--
GLENN & GARNO GX900	23.3	--	--	18.2	--	--	4.2	--	--	--	--	--
ANDERSONS QX90	22.0	--	--	19.4	--	--	4.3	--	--	--	--	--
PIONEER 3901	21.9	23.4	--	22.4	21.2	--	4.9	4.9	--	--	--	--
KING K2204	21.2	23.6	--	23.1	22.3	--	4.9	5.2	--	--	--	--
GOLDEN HARVEST H-2344	20.5	22.1	--	25.4	23.4	--	5.2	5.1	--	--	--	--
CARGILL HS50A	20.2	--	--	25.3	--	--	5.1	--	--	--	--	--
AVERAGE	25.0	25.9	27.2	18.9	19.9	18.9	4.7	5.1	5.1	--	--	--
RANGE	20.2	22.1	26.7	13.3	16.9	17.1	3.4	4.6	4.8	--	--	--
	T0	T0	T0	T0	T0	T0	T0	T0	T0	--	--	--
	28.9	28.6	27.9	25.4	23.4	20.6	5.4	5.7	5.5	--	--	--
LEAST SIGNIFICANT DIFFERENCE	2.4	1.9	1.5	2.0	1.5	1.4	0.6	0.5	0.4	--	--	--

	1986	1985	1984
PLANTED	MAY 9	MAY 10	MAY 11
HARVESTED	SEPTEMBER 30	SEPTEMBER 25	SEPTEMBER 18
SOIL TYPE	MARLETTE SANDY LOAM	MARLETTE SANDY LOAM	MARLETTE SANDY LOAM
PREVIOUS CROP	CORN	CORN	ALFALFA-GRASS SOD
POPULATION	20,100	21,000	20,400
ROWS	28"	28"	28"
FERTILIZER	108-31-136	152-29-143	148-44-123
SOIL TEST: PH	5.8	6.4	6.6
P	91(HIGH)	95(HIGH)	96(HIGH)
K	497(VERY HIGH)	328(VERY HIGH)	116(LOW)

FARM COOPERATOR: DOUG NIELSEN AND GEORGE MCGLOUGHLIN, LAKE CITY EXPERIMENT
STATION, MICHIGAN STATE UNIVERSITY, LAKE CITY

COUNTY EXTENSION DIRECTOR: CARL STEPHENS, LAKE CITY

TABLE 21

NORTHERN MICHIGAN
ALPENA COUNTY TRIAL - GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 4

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHELS PER ACRE			STALK LODGING		
	2		3	2		3	2		3
	1986	YR	YR	1986	YR	YR	1986	YR	YR
NORTHROP KING PX9060	23.3	--	--	51.4	--	--	0.7	--	--
PAYCO SX342	23.3	27	--	79.1	85	--	0.7	1	--
*PRIDE 1194	23.4	--	--	80.8	--	--	0.0	--	--
GLENN & GARNO GX902	23.4	27	--	65.3	74	--	2.3	2	--
PRIDE 1125	23.6	--	--	53.6	--	--	3.2	--	--
GLENN & GARNO GX888	23.8	--	--	70.6	--	--	1.6	--	--
NORTHROP KING PX9151	23.9	27	--	76.0	93	--	1.5	1	--
GREAT LAKES GL-313	24.2	27	--	61.8	67	--	4.1	3	--
CARGILL 810	24.7	--	--	70.1	--	--	0.0	--	--
*ASGROW/O'S GOLD 2230	25.0	29	--	79.9	83	--	1.7	2	--
*NORTHROP KING PX9161	25.7	--	--	80.4	--	--	1.5	--	--
PICKSEED 2700	25.7	--	--	78.8	--	--	1.5	--	--
JACQUES 4700	25.9	30	--	70.2	79	--	1.5	1	--
PAYCO SX400	26.2	--	--	68.5	--	--	1.5	--	--
*PRIDE X945	26.4	--	--	89.8	--	--	2.3	--	--
PIONEER 3949	26.5	28	27	58.2	77	88	0.8	2	1
KING K1184	26.5	29	30	67.9	75	80	2.4	2	2
ANDERSONS PSX85	26.9	--	--	71.9	--	--	2.9	--	--
KING K1173	27.1	--	--	55.5	--	--	0.7	--	--
ANDERSONS QX85	27.3	31	--	57.6	74	--	3.1	5	--
KING K2204	27.4	32	--	72.5	90	--	2.3	5	--
KING K2203	27.7	--	--	60.8	--	--	0.8	--	--
*DAIRYLAND DX1087	27.8	--	--	85.3	--	--	0.0	--	--
FUNK 0031X	28.0	--	--	75.9	--	--	3.6	--	--
FUNK G-4089	28.0	--	--	72.9	--	--	0.8	--	--
JACQUES 4200	28.1	--	--	68.6	--	--	0.7	--	--
FUNK G-4081	28.2	29	29	68.4	71	84	0.8	5	3
PIONEER 3779	28.2	30	--	66.7	85	--	0.7	2	--
*PAYCO SX500	28.3	32	--	80.0	90	--	1.5	1	--
PIONEER 3803	28.5	--	--	78.3	--	--	1.7	--	--
KING K127	28.7	--	--	53.7	--	--	0.8	--	--
DAIRYLAND DX1083	28.7	--	--	61.6	--	--	1.6	--	--
GREAT LAKES GL-414	28.8	32	--	74.4	79	--	0.0	0	--
CARGILL 809	29.6	--	--	72.2	--	--	4.7	--	--
GLENN & GARNO GX905	30.0	--	--	52.3	--	--	0.0	--	--
FUNK G-4100	30.2	--	--	55.0	--	--	2.9	--	--
*GARNO S-89X	30.6	--	--	80.2	--	--	2.7	--	--
*CARGILL 819	31.0	--	--	84.7	--	--	2.2	--	--
CARDINAL 3222	31.6	35	33	75.8	81	94	0.0	1	1
*DAIRYLAND DX1096	31.8	34	33	87.2	96	105	0.0	1	0
PRIDE 2244	31.9	--	--	73.3	--	--	2.3	--	--
GLENN & GARNO GX900	33.0	--	--	78.4	--	--	0.8	--	--
*GREAT LAKES GL-422	34.6	35	33	85.0	95	103	0.8	1	1
PICKSEED 4555	34.7	34	--	76.0	85	--	0.8	3	--
*GARNO S-90	34.9	35	34	83.1	94	101	1.9	2	2
*PIONEER 3901	35.1	35	34	87.0	97	105	2.2	3	2
*GOLDEN HARVEST H-2344	35.5	35	--	86.8	98	--	2.5	4	--
CARGILL HT95	35.6	--	--	66.8	--	--	0.0	--	--
CARGILL HT105	38.6	--	--	78.9	--	--	0.8	--	--
CARGILL HS50A	41.7	--	--	52.2	--	--	1.5	--	--

(continued below)

TABLE 22 (CONTINUED)

NORTHERN MICHIGAN
ALPENA COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984

ZONE 4

HYBRID (BRAND-VARIETY)	DRY MATTER			GREEN WEIGHT			TONS PER ACRE		
	2		3	2		3	2		3
	1986	YR	YR	1986	YR	YR	1986	YR	YR
ANDERSONS PSX85	34.8	--	--	12.9	--	--	4.5	--	--
JACQUES 4700	34.3	28.5	--	11.3	17.2	--	3.8	4.5	--
GREAT LAKES GL-414	34.1	27.7	--	12.6	19.1	--	4.3	4.9	--
JACQUES 4200	33.8	--	--	10.0	--	--	3.4	--	--
KING K1173	33.8	--	--	10.1	--	--	3.4	--	--
GLENN & GARNO GX900	33.8	--	--	11.5	--	--	3.9	--	--
NORTHROP KING PX9161	33.7	--	--	12.5	--	--	4.2	--	--
KING K1184	33.7	28.6	28.3	12.6	19.4	17.9	4.2	5.2	4.8
PRIDE X945	33.6	--	--	12.6	--	--	4.2	--	--
ASGROW/O'S GOLD 2230	33.6	28.8	--	10.6	17.4	--	3.6	4.7	--
DAIRYLAND DX1087	33.4	28.6	--	11.5	17.1	--	3.8	4.6	--
KING 2203	33.2	--	--	12.8	--	--	4.3	--	--
PICKSEED 4555	33.2	27.3	--	11.9	18.0	--	4.0	4.6	--
PAYCO SX500	33.1	27.9	--	12.5	17.3	--	4.1	4.5	--
CARGILL 819	33.0	--	--	13.2	--	--	4.3	--	--
GLENN & GARNO GX905	32.9	--	--	11.6	--	--	3.8	--	--
DAIRYLAND DX1096	32.8	26.8	27.3	15.2	20.8	20.6	5.0	5.2	5.4
PIONEER 3803	32.7	28.3	28.3	11.4	18.4	18.4	3.7	4.9	5.0
PAYCO SX400	32.6	--	--	12.2	--	--	4.0	--	--
GOLDEN HARVEST H-2344	32.5	26.3	--	13.2	21.8	--	4.3	5.2	--
CARGILL HT95	32.3	--	--	13.4	--	--	4.3	--	--
GREAT LAKES GL-422	31.8	26.2	26.6	15.4	21.0	20.8	4.9	5.2	5.3
GARNO S-90	30.5	25.3	26.1	15.4	21.0	20.8	4.7	5.0	5.2
PIONEER 3901	30.2	25.5	25.9	15.2	21.8	20.3	4.6	5.2	5.0
PIONEER 3779	29.0	24.9	--	15.1	21.0	--	4.4	5.0	--
CARDINAL 3222	28.3	24.7	25.2	15.9	20.6	20.1	4.5	4.9	4.9
PRIDE 2244	27.4	--	--	13.6	--	--	3.7	--	--
KING K2204	25.7	24.7	--	12.8	18.8	--	3.2	4.6	--
CARGILL HT105	24.1	--	--	17.4	--	--	4.2	--	--
CARGILL HS50A	21.4	--	--	18.8	--	--	4.0	--	--
AVERAGE	34.1	28.1	27.5	12.2	18.4	19.2	4.1	4.8	5.0
RANGE	21.4	24.7	25.2	8.2	14.5	16.6	3.2	4.0	4.5
	41.7	32.1	31.2	18.8	21.8	20.8	5.0	5.2	5.4
LEAST SIGNIFICANT DIFFERENCE	3.5	2.4	1.8	1.8	1.4	1.1	0.5	0.4	0.4

	1986	1985	1984
PLANTED	MAY 6	MAY 22	MAY 24
HARVESTED	OCTOBER 10	SEPTEMBER 25	SEPTEMBER 18
SOIL TYPE			
PREVIOUS CROP	DRY BEANS	DRY BEANS	DRY BEANS
POPULATION	19,900	21,900	20,900
ROWS	30"	30"	30"
FERTILIZER	112-48-168	136-64-152	162-48-48
SOIL TEST: PH	5.8	6.0	6.6
P	125(VERY HIGH)	69(HIGH)	107(VERY HIGH)
K	333(VERY HIGH)	350(VERY HIGH)	236(HIGH)

FARM COOPERATOR: ALLEN SCHIELERD, HUBBARD LAKE

COUNTY EXTENSION DIRECTOR: ROGER MANNING, ALPENA

AVERAGE	28.9	31	32	71.7	84	95	1.5	2	1
RANGE	23.3	27	27	51.4	67	80	0.0	0	0
	41.7	35	34	89.8	98	105	4.7	5	3
LEAST SIGNIFICANT DIFFERENCE	2.5	2.0	1.4	8.0	7	5	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985	1984
PLANTED	MAY 6	MAY 22	MAY 24
HARVESTED	NOVEMBER 24	NOVEMBER 6	NOVEMBER 1
PREVIOUS CROP	DRY BEANS	DRY BEANS	DRY BEANS
POPULATION	21,700	22,100	21,200
ROWS	30"	30"	30"
FERTILIZER	112-48-168	136-64-152	162-48-48
SOIL TEST: PH	5.8	6.0	6.6
P	125(VERY HIGH)	69(HIGH)	107(VERY HIGH)
K	333(VERY HIGH)	350(VERY HIGH)	236(HIGH)

FARM COOPERATOR: ALLEN SCHIELERD, HUBBARD LAKE

COUNTY EXTENSION DIRECTOR: ROGER MANNING, ALPENA

TABLE 22 NORTHERN MICHIGAN ALPENA COUNTY TRIAL - SILAGE ONE, TWO, THREE YEAR AVERAGES - 1986, 1985, 1984 ZONE 4

HYBRID (BRAND-VARIETY)	DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	1986	2	3	1986	2	3	1986	2	3	1986	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR	YR	YR	YR
CARGILL 809	41.7	--	--	8.6	--	--	3.6	--	--	3.6	--	--
GREAT LAKES GL-313	40.3	32.1	--	9.3	15.9	--	3.8	4.6	--	3.8	4.6	--
PAYCO SX342	40.2	31.8	--	9.5	14.5	--	3.8	4.2	--	3.8	4.2	--
PRIDE 1125	40.1	--	--	8.2	--	--	3.2	--	--	3.2	--	--
FUNK G-4100	39.7	--	--	10.5	--	--	4.2	--	--	4.2	--	--
PIONEER 3949	39.3	32.1	31.2	10.2	16.3	17.0	4.0	4.8	5.0	4.0	4.8	5.0
CARGILL 810	39.3	--	--	11.2	--	--	4.5	--	--	4.5	--	--
FUNK G-4089	39.2	--	--	10.1	--	--	4.0	--	--	4.0	--	--
DAIRYLAND DX1083	38.7	--	--	10.9	--	--	4.2	--	--	4.2	--	--
KING K127	38.5	--	--	10.5	--	--	4.0	--	--	4.0	--	--
NORTHROP KING PX9151	37.7	31.4	--	12.3	17.4	--	4.6	5.1	--	4.6	5.1	--
PRIDE 1194	37.7	--	--	11.6	--	--	4.4	--	--	4.4	--	--
GLENN & GARNO GX902	37.7	29.1	--	10.4	16.2	--	3.9	4.2	--	3.9	4.2	--
FUNK 0031X	36.6	--	--	11.8	--	--	4.3	--	--	4.3	--	--
GLENN & GARNO GX888	36.2	--	--	12.0	--	--	4.3	--	--	4.3	--	--
NORTHROP KING PX9060	36.0	--	--	13.9	--	--	5.0	--	--	5.0	--	--
ANDERSONS QSX85	36.0	28.6	--	9.9	15.7	--	3.5	4.0	--	3.5	4.0	--
PICKSEED 2700	36.0	--	--	11.5	--	--	4.2	--	--	4.2	--	--
GARNO S-89X	35.0	--	--	12.0	--	--	4.2	--	--	4.2	--	--
FUNK G-4081	34.8	28.7	28.6	10.0	15.8	16.6	3.5	4.2	4.5	3.5	4.2	4.5

(continued top right)

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

HYBRID (BRAND-VARIETY)	MOISTURE			BUSHEL PER ACRE			STALK LODGING		
	1986	2	3	1986	2	3	1986	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	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	--
NORTHROP 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	--	--
*NORTHROP 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	--
NORTHROP 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
	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

TABLE 24

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

ZONE 4

HYBRID (BRAND-VARIETY)	TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	DRY MATTER			2			2		
	1986	YR	3	1986	YR	3	1986	YR	3
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 85558	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
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	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	TRENTARY SANDY LOAM	CHATHAM LOAM	TRENTARY LOAM
PREVIOUS CROP	SOD	CORN	BEANS
POPULATION	17,400	17,900	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 LEMPKE, MUNISING

TABLE 26

SOUTH CENTRAL MICHIGAN
Ingham County No-Till Trial
ONE AND TWO YEAR AVERAGES - 1986, 1985

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE		BUSHEL PER ACRE		% STALK LODGING	
	2		2		2	
	1986	YR	1986	YR	1986	YR
PAYCO SX620	32.4	31.6	108.1	103.1	9.7	--
*DEKALB-PFIZER DK524	34.5	33.4	136.5	131.2	4.9	--
PIONEER 3737	34.8	31.0	123.3	124.7	3.5	--
STAUFFER S-5340	35.4	36.4	129.8	119.6	4.5	--
PIONEER 3744	35.5	33.6	124.8	116.4	1.6	--
FUNK G-4342	35.7	34.3	120.4	113.5	4.3	--
KING K-5574	35.8	34.9	121.1	129.8	6.2	--
*DAIRYLAND DX 1107	35.9	35.3	134.7	130.8	8.4	--
MFL-1834	36.3	35.4	120.5	122.0	5.3	--
NORTHROP KING PX9345	36.4	35.2	109.7	101.8	2.6	--
STAUFFER S-5650	38.2	36.6	118.4	114.8	5.4	--
GOLDEN HARVEST H-2480	38.3	36.7	118.3	114.5	8.5	--
RENK RK66	38.4	36.9	123.0	113.5	6.4	--
CARGILL 842	38.7	36.0	116.2	119.6	5.6	--
DEKALB-PFIZER DK484	39.2	36.5	111.0	107.2	1.5	--
FUNK G-4312	39.3	36.6	107.0	108.6	3.5	--
GREAT LAKES GL-540	41.1	38.1	101.9	102.0	2.2	--
GREAT LAKES GL-5922	41.2	38.4	107.5	102.6	1.6	--
AVERAGE	37.1	35.4	118.4	115.3	4.8	--
RANGE	32.4	31.0	101.9	101.8	1.5	--
	TO	TO	TO	TO	TO	TO
	41.2	38.4	136.5	131.2	9.7	--
LEAST SIGNIFICANT DIFFERENCE	2.1	2.1	16.1	23.8	4.4	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985
PLANTED	May 1	May 4
HARVESTED	October 7	October 10
SOIL TYPE	Capac Loam	Capac Loam
PREVIOUS CROP	Corn	Corn
POPULATION	17,400	18,000
ROWS	30"	30"
FERTILIZER	170-40-0	165-50-50
SOIL TEST: pH	6.8	6.5
p	136 (very high)	155 (very high)
k	236 (high)	84 (low)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

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

TABLE 25

SOUTHERN MICHIGAN
Kalamazoo County No-Till Trial
ONE AND TWO YEAR AVERAGES - 1986, 1985

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE		BUSHELS PER ACRE		% STALK LODGING	
	1986	2 YR	1986	2 YR	1986	2 YR
PAYCO SX620	22.9	22.1	137.6	144.2	5.0	9.6
CARGILL 842	23.4	22.8	155.4	158.8	1.6	3.3
PIONEER 3737	23.4	22.8	150.5	155.0	2.9	5.4
NORTHROP KING PX9345	24.2	23.9	156.1	156.3	1.3	2.1
PIONEER 3744	24.2	23.8	140.2	147.7	0.0	0.7
FUNK G-4312	24.5	23.7	145.6	147.6	0.0	3.9
DEKALB-PFIZER DK484	24.7	23.8	146.1	150.0	2.6	5.9
MFI-1834	25.4	25.4	163.9	169.4	0.7	0.7
*STAUFFER S5340	25.8	26.0	171.6	172.5	2.0	2.0
*KING K5574	25.9	25.7	177.3	182.0	0.7	1.3
FUNK G-4342	26.0	24.8	146.8	152.5	0.3	6.8
GREAT LAKES GL-540	26.1	25.0	135.4	143.8	3.2	5.8
DAIRYLAND DX 1107	26.2	26.0	163.6	170.0	1.3	1.6
STAUFFER S5650	26.5	26.2	146.6	156.1	3.2	2.7
GREAT LAKES GL-5922	28.5	28.8	147.2	142.9	3.0	3.2
AVERAGE	25.2	24.7	152.3	156.6	1.9	3.7
RANGE	22.9 TO 28.5	22.1 TO 28.8	135.4 TO 177.3	142.9 TO 182.0	0.0 TO 5.0	0.7 TO 9.6
LEAST SIGNIFICANT DIFFERENCE	1.6	1.5	18.4	21.9	4.4	6.0

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1986

	1986	1985
PLANTED	May 6	April 29
HARVESTED	October 23	October 23
SOIL TYPE	Oshtemo Sandy Loam	Oshtemo Sandy Loam
PREVIOUS CROP	Corn	Corn
POPULATION	18,400	19,000
ROWS	30"	30"
FERTILIZER	140-0-0 Unirrigated 165-0-0 Irrigated	125-0-0 Unirrigated 200-0-0 Irrigated
SOIL TEST: pH		6.1
p		114 (very high)
k		282 (high)

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

COUNTY EXTENSION DIRECTOR: Gale L. Arent, Kalamazoo

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

TABLE 27

Index for 435 hybrids entered as 2,281 entries in the 1986 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 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 TS60 (2X) (11,12,13)	AgriPro AP510 (2X) (3,4,5)
AgriPro HP277 (2X) (11,12,13)	AgriPro 644 (2X) (6,9,10,11,12,13)
AgriPro AP391 (2X) (2,3,4,9,10,11,12,13)	AgriPro 680 (2X) (2,3,4,9,10,11,12,13)
AgriPro HP470 (2X) (2,3,4,5)	AgriPro 710A (2X) (2,3,4)

The Andersons, Maumee, OH 43537

Andersons PSX-85 (2X) (14,15,16,19,20,21,22)	Andersons PSX-100 (2X) (2,9,10,13)
Andersons QSX-85 (4X) (16,21,22)	Andersons PSX-103E (2X) (1,3,4,5,7,9,10,14,15)
Andersons QSX-90 (4X) (16,17,20)	Andersons PSX-105 (2X) (6,8,9,10,11,12,13)
Andersons PSX-93 (2X) (11,12,13,14,15,16,17,19,20)	Andersons PSX-107E (2X) (1,2,3,4,5,6,9,10,11,12,13)
Andersons QSX-95 (4X) (17)	Andersons PSX-110 (2X) (1,2,3,5)
Andersons PSX-99 (2X) (1,4,5,6,7,8,9,10,11,12,14,15)	

Asgrow Seed Co., Kalamazoo, MI 49001

Asgrow/O's Gold RX480 (2X) (13,14,15)	Asgrow/O's Gold 2330 (2X) (6,7,8,11,12,14,15,16,18)
Asgrow/O's Gold RX532 (2X) (9,10,17)	Asgrow/O's Gold 2450 (2X) (2,8)
Asgrow/O's Gold RX717 (2X) (3)	Asgrow/O's Gold 2545 (2X) (1,5)
Asgrow/O's Gold 2230 (2X) (21,22)	Asgrow/O's Gold 6880 (2X) (1,13)
	Asgrow/O's Gold 6882 (2X) (1,2,3,4)

Becks Hybrids, Atlanta, IN, 46031

Becks 49X (2X) (3,4,5)	Becks 63X (2X) (3,5)
Becks 51X (2X) (1,2,5)	Becks 64XA (2X) (1,2,3,4,6)
Becks 56X (2X) (1,2,3,4,6)	Becks 65X (2X) (3,5)
Becks 60X (2X) (1,5,6)	

Betaseed, Inc., Shakopee, MN 55379

Betaseed Exp. 216 (2X) (19,24)	Betaseed Gretel (2X) (13,16)
Betaseed Exp. 226 (2X) (13,16)	Betaseed Ingrid (2X) (7,8,13,16)
Betaseed Exp. 336 (2X) (7,8,13,16)	Betaseed Kristine (2X) (2,5,7,8)
Betaseed Gretchen (2X) (19,24)	

Callahan Seeds, Westfield, IN 46074

Callahan C728 (2X) (9,10,11,12)	Callahan C766 (2X) (2,3,5,13)
Callahan C738 (2X) (11,12)	Callahan C771 (2X) (2,9,10)
Callahan C747 (2X) (1,11,12,13)	Callahan 18460X (2X) (11,12)
Callahan C754 (2X) (1,2,3,5,9,10,11,12,13)	

Cardinal Seeds, Chatham, Ontario, Canada N7M 5K3

Cardinal SX112 (2X) (9,10,11,12,13,14,15,16)	Cardinal 3222 (2X) (11,12,13,14,15,16,19,21,22)
Cardinal 2720 (2X) (19)	Cardinal 3590 (2X) (1)
Cardinal 2820 (2X) (11,12,13,19)	

(continued next page)

Cargill Seeds, Minneapolis, MN 55440

Cargill 809 (2X) (16,18,19,21,22)
 Cargill 810 (2X) (21,22)
 Cargill 819 (2X) (16,18,19,21,22)
 Cargill 829 (2X) (9,10,13,14,15,16,17,18,19)
 Cargill 839 (2X) (7,8,11,12,13,14,15,16,17,18,19)
 Cargill 842 (2X) (1,3,4,5,6,7,8,9,10,11,12,13,14,15,17,18,25,26)
 Cargill 859 (2X) (1,2,3,6,7,8,9,10,11,12,13,14,15,16,17,18)
 Cargill 874 (2X) (1,2,3,5,6,7,8,14,15)
 Cargill 889 (2X) (1,2,3,4,5,6,9,10)
 Cargill 893 (2X) (4)

Cargill 918 (2X) (1,2,3,5)
 Cargill HS50A (Sp.) (20,21,22,24)
 Cargill HT95 (Sp.) (9,10,11,12,14,15,20,21,22,24)
 Cargill HT105 (Sp.) (9,10,11,12,14,15,21,22)
 Cargill HT110 (Sp.) (9,10,11,12,14,15)
 Cargill HT115 (Sp.) (9,10)
 Cargill HT120 (Sp.) (9,10)
 Cargill 130409 (2X) (2,3,4,5,9,10,11,12,13)
 Cargill 131759 (2X) (5,6,7,8,9,10,11,12,13,14,15,16,17)
 Cargill 222660 (2X) (1,2,3,4,5)

Countrymark, Inc., Columbus, OH 43216

Countrymark C333X (2X) (19,20)
 Countrymark C433X (2X) (7,8,9,10,11,12,13,14,15,16,17,18)
 Countrymark C454X (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)

Countrymark C525X (2X) (1,2,3,4,5,6,7,8,9,10)
 Countrymark C565X (2X) (1,2,3,4,5,6,7,8,9,10)
 Countrymark C677X (2X) (1,2,3,4,5,6)
 Countrymark C733X (2X) (1,2,3,4,5,6)
 Countrymark Exp. 6276 (2X) (19,20)

Crow's Hybrid Corn Co., Milford, IL 60953

Crow's 181 (2X) (1,2,3,9,10)
 Crow's 199 (2X) (1,2,3,9,10)
 Crow's 212 (2X) (1,2,3,9,10)
 Crow's 344 (2X) (1,2,3,4,9,10)

Crow's 442 (2X) (1,2,3,4)
 Crow's 444 (2X) (1,2,3,9,10)
 Crow's 488 (2X) (1,4,5)

Custom Farm Seed, Momence, IL 60954

CFS 5801 (2X) (7)
 CFS 6203 (2X) (3,7)
 CFS 7501 (2X) (3)
 CFS W7651 (2X) (3)

CFS EW93022 (2X) (7)
 CFS E94016 (2X) (3)
 CFS EW96002 (2X) (7)

Dairyland Seed Co., Inc., West Bend, WI 53095

Dairyland DX1005 (2X) (4,5,6,7,8,9,10,13,14,15)
 Dairyland DX1006 (2X) (8,9,10,11,12,13,14,15)
 Dairyland DX1008 (2X) (7,9,10,13)
 Dairyland DX1012 (2X) (1,2,3,5,6)
 Dairyland DX1013 (2X) (1,2,3,4,5)
 Dairyland DX1015 (2X) (1,2,3,4)
 Dairyland DX1017 (2X) (1,2,3,4)
 Dairyland DX1083 (2X) (21,22)
 Dairyland DX1087 (2X) (16,20,21,22)
 Dairyland DX1089 (2X) (6,8,11,12,13,14,15,16,17,20)

Dairyland DX1096 (2X) (8,11,12,13,20,21,22)
 Dairyland DX1097 (2X) (8,11,12,13,14,15,16,17,20)
 Dairyland DX1102 (2X) (8,11,12,13,14,15,16)
 Dairyland DX1103 (2X) (6,8,11,12,13,14,15,16,17)
 Dairyland DX1105 (2X) (4,7,8,13)
 Dairyland DX1107 (2X) (1,2,3,4,5,6,7,8,9,10,13,14,15,25,26)
 Dairyland DX1108 (2X) (1,2,3,4,5,7,8,9,10,13,14,15)

DeKalb-Pfizer Genetics, DeKalb, IL 50115

DeKalb-Pfizer DK397 (2X) (14,15,16)
 DeKalb-Pfizer DK415 (2X) (11,12,16,18)
 DeKalb-Pfizer DK435 (2X) (11,12,18)
 DeKalb-Pfizer DK461 (2X) (5,6,7,8,13,14,15,17)
 DeKalb-Pfizer DK484 (2X) (1,3,6,7,9,10,13,14,15,17,18,25,26)
 DeKalb-Pfizer DK524 (2X) (5,6,7,8,9,10,11,12,13,14,15,16,17,26)
 DeKalb-Pfizer DK547 (2X) (2,4,7,8,9,10)
 DeKalb-Pfizer DK572 (2X) (1,2,3,4)

Farmers Corn & Chemical Co., Jerome, MI 49249

Farmers FCC 4235 (2X) (1,2,3,5,9,10,13)
 Farmers FCC 4255 (2X) (1,2,3,5,9,10,13)

Jung Farms, Inc., Randolph, WI 53957

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

King Grain, Inc., Blissfield, MI 49228

King K127 (2X) (19,20,21,22,24)
 King K416 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,20)
 King K596 (2X) (1,2,3,4,5,6,9,10)
 King Exp.647(2X) (1,2,3,5,6)
 King K1113 (MSX) (24)
 King K1122 (2X) (24)
 King K1173 (2X) (19,21,22)
 King K1184 (2X) (19,20,21,22)
 King K2203 (2X) (19,21,22)
 King K2204 (2X) (7,8,11,12,13,14,15,16,17,18,19,20,21,22)
 King K4422 (2X) (1,2,3,4,5,6,7,8)
 King K4464 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
 King K4484 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13)
 King K5574 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,25,26)

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

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

Leader Seeds, Inc., Celina, OH 45822

Leader LSX480A (2X) (1,9,10)
 Leader SX488 (2X) (9,10)
 Leader LSX530 (2X) (2,5)
 Leader SX575 (2X) (1)

Lemke, Wisconsin

Lemke 43A (23)
 Lemke 43B (23)

Lynks Seeds, Marshalltown, IA 50158

Lynks LX4075 (2X) (6)
 Lynks LX4084 (2X) (5)
 Lynks LX4102 (2X) (3)
 Lynks LX4235 (2X) (2)
 Lynks LX4304 (2X) (1)

Maisadour, 40001 Mont-de-Marson Cedex, France

Adour 833 (24)

Maizez, Inc., Tilbury, Ontario, Canada NOP 2L0

Maizez MX290 (2X) (11,12,14,15)
 Maizez MX300 (2X) (11,12,14,15)
 Maizez MX305 (2X) (11,12,14,15)

Maumee Valley Seeds, Inc., Woodbury, IN 46797

Maumee Valley MV-611 (2X) (1,2,3,4,5,6,7,8,9,10)
 Maumee Valley MV-630 (2X) (1,2,3,4,5,6,7,8,9,10)
 Maumee Valley MV-762 (2X) (1,2,3,4,5,6,7,8,9,10)
 Maumee Valley MV-851 (2X) (1,2,3,4,5,6,7,8,9,10)
 Maumee Valley Exp.2 (2X) (1,2,3,4,5,6,7,8,9,10)
 Maumee Valley Exp.10 (2X) (1,2,3,4,5,6,7,8,9,10)

McCurdy Seed Co., Fremont, IA 52561

McCurdy 5750 (2X) (1,5)
 McCurdy 7384 (2X) (1,5)
 McCurdy M-5990 (2X) (1,5)

McKenzie Seed Farm, Breckenridge, MI 48615

McKenzie 502 (Sp.) (7,13,16,17)
 McKenzie 507 (2X) (7,13,16,17)
 McKenzie 807 (2X) (13,16,17)

MFI Seeds, Mendon, MI 49072

MFI-1834 (2X) (25,26)

Michigan Hybrid Seed Co., Mason, MI 48854

Wolverine W130 (2X) (11,12,16)
 Wolverine W156 (2X) (7,8,14,15,16,17)
 Wolverine W163 (2X) (7,8,14,15,16,17)
 Wolverine W168 (2X) (4,8)
 Wolverine W174A (2X) (2,4)
 Wolverine X198 (2X) (7,14,15)

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Funk Seeds International, Bloomington, IL 61701

Funk 0031X (2X) (21,22,24)
Funk 2034X (2X) (4,6,7,9,10,11,
12,14,15,16,17,18,19)
Funk 3069X (2X) (8,14,15,17)
Funk G-4081(MSX) (20,21,22)
Funk G-4083 (2X) (24)
Funk G-4085(MSX) (24)
Funk G-4089(MSX) (20,21,22)
Funk G-4093X(2X) (1,5)
Funk G-4100 (2X) (14,15,16,19,20,
21,22)
Funk G-4141A(MSX) (23)
Funk G-4211 (2X) (4,6,7,9,10,11,12,14,
15,16,17,18,19,23)
Funk G-4296 (3X) (4,6,11,12,14,15,16,18)
Funk G-4312 (2X) (2,3,4,6,7,8,9,10,11,
12,13,14,15,25,26)
Funk G-4326 (2X) (1,2,3,5,7,8,9,10,11,
12,13)
Funk G-4327(MSX) (1,2,3,4,6,7,8,9,10,
11,12,13)
Funk G-4342 (2X) (25,26)
Funk G-4428 (2X) (1,2,3,4,8)
Funk G-4440 (2X) (1,5)

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

Super Crost 1940 (2X) (11,12,14,
15,16,17,18)
Super Crost 1989 (2X) (7,8,14,
15,16,18)
Super Crost 2140 (2X) (13)
Super Crost 2288 (2X) (14,15,17)
Super Crost 2989 (2X) (1,2,3,4,5,7,8,9,
10,11,12,13)
Super Crost 4304 (2X) (1,2,3,4,5)

Garno Seed Co., Palmyra, MI 49268

Garno S-89X (2X) (19,21,22)
Garno S-90 (2X) (18,19,21,22)
Garno S-94X (2X) (9,10,11,12,13,
14,15)
Garno S-95X (2X) (8,9,10,11,12,13,14,
15,17)
Garno S-97X (2X) (1,2,3,4,5,8,9,10)
Garno S-100X (2X) (1,2,3,4,5,9,10)

Glenn & Garno, Inc., Stockbridge, MI 49285

Glenn & Garno GE740 (2X) (24)
Glenn & Garno GX888 (2X) (1,2,3,
4,5,6,7,8,9,10,11,12,13,14,15,
16,17,18,19,21,22,23)
Glenn & Garno GX900 (2X) (18,19,
20,21,22)
Glenn & Garno GX902 (2X) (18,19,
20,21,22,23)
Glenn & Garno GX905 (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 GX906 (2X) (1,2,3,4,5,6,7,
8,9,10,11,12,13,14,15,16)
Glenn & Garno GX944 (2X) (1,2,3,4,5,6,7,
8,9,10,11,12,13,14,15,16,17,18)
Glenn & Garno GX988 (2X) (1,2,3,4,5,6,7,
8,9,10,11,12,13,14,15,16,17)
Glenn & Garno GX1007(2X) (1,2,3,4,5,6,7,
8,9,10,17)
Glenn & Garno GX1009(2X) (1,2,3,4,5,9,10)

Great Lakes Hybrids, Inc., Ovid, MI 48866

Great Lakes GL-313 (2X) (21,22)
Great Lakes GL-414 (2X) (11,12,
13,19,21,22)
Great Lakes GL-422 (2X) (14,15,
16,19,21,22)
Great Lakes GL-437 (2X) (6,7,11,
12,13,14,15,17,18)
Great Lakes GL-466 (2X) (14,15,
17,18)
Great Lakes GL-487 (2X) (6,7,8,9,
10,11,12,13,14,15,16,17,18)
Great Lakes GL-498 (2X) (4,8,9,10,
11,12,13,14,15,16,17)
Great Lakes GL-510 (2X) (7,8)
Great Lakes GL-540 (2X) (2,9,10,
11,12,14,15,25,26)
Great Lakes GL-547 (2X) (1,2,7)
Great Lakes GL-579 (2X) (1,2,3,4,
5,7,8,9,10,11,12,13,14,15)
Great Lakes GL-585 (2X) (1,2,3,4,14,15)
Great Lakes GL-599 (2X) (1,5,9,10,14,15)
Great Lakes GL-608 (2X) (5)
Great Lakes GL-624 (2X) (14,15)
Great Lakes 5922 (2X) (1,2,9,10,14,15,
25,26)
Great Lakes 82351 (2X) (19)
Great Lakes 84546 (2X) (1,2,3,4,5)
Great Lakes 85548 (2X) (7,8,11,12,14,
15,16,17)
Great Lakes 85552 (2X) (7,9,10,13,14,
15,16)
Great Lakes 85558 (2X) (24)

Gries Seed Farms, Inc., Fremont, OH 43420

Gries X224 (2X) (13)
Gries X500 (2X) (13)
Gries X580 (2X) (1,2)
Gries X665 (2X) (1)

Jacques Seed Co., Prescott, WI 54021

Jacques JX3 (2X) (23,24)
Jacques JX33 (2X) (24)
Jacques 4200 (2X) (19,21,22)
Jacques 4700 (2X) (21,22,23)
Jacques 4750 (2X) (11,12,13,14,
15,16,17,18,20)
Jacques Exp.5104 (2X) (1,3,5,7,8,9,10,
11,12,13,14,15,17)
Jacques 7700 (2X) (1,2,3,4,5,7,8,9,10)
Jacques 7750 (2X) (2,4)
Jacques Exp.85100 (2X) (16,18)

Noble Bear, Gibson City, IL 60936

Noble Bear NB446 (2X) (5)
Noble Bear NB810AA (2X) (5)

North Coast Seed Co., Milan, OH 44846

North Coast NC2080 (2X) (1,2)
North Coast NC2205 (2X) (1,2)
North Coast NC2310 (2X) (1,2)
North Coast NC2320 (2X) (1,2)
North Coast NC2340 (2X) (1,2)
North Coast NC2412 (2X) (1,2)
North Coast NC2515 (2X) (1,2)

Northrup King Co., Minneapolis, MN 55440

Northrup King PX39 (2X) (4)
Northrup King X1834 (23)
Northrup King PX9060 (2X) (19,21,
22,23)
Northrup King PX9151 (2X) (19,21,
22,23)
Northrup King PX9161 (2X) (16,17,
19,21,22)
Northrup King PX9283 (2X) (6,7,8,
9,10,11,12,13,14,15,16,17)
Northrup King PX9292 (2X) (13)
Northrup King PX9345 (2X) (14,15,25,26)
Northrup King PX9353 (2X) (7,8,9,10,11,
12,13,14,15)
Northrup King PX9385 (2X) (1,2,3,4,5,7,
8,9,10,13)
Northrup King PX9470 (2X) (1,2,3)
Northrup King PX9527 (2X) (1,3)
Northrup King PX9540 (2X) (1,2,3,5)

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

Olds L1080 (23)
Olds L1085 (23)
Olds L1090E (23)

PAG Seeds, Minneapolis, MN 55440

PAG SX117 (2X) (14,15,18)
PAG SX123 (2X) (11,12,13,14,15,
16,18)
PAG SX180 (2X) (11,12,13)
PAG SX239 (2X) (9,10)
PAG SX267 (2X) (2,3,9,10)
PAG SX269 (2X) (1,2,3,4,5,6,9,10)
PAG SX297 (2X) (1)
PAG SX310 (2X) (3)
PAG 130409 (2X) (1,7,8)
PAG 132701 (2X) (1,2,5)
PAG 133037 (2X) (1,3,4,8,9,10)
PAG 223229 (2X) (4,7,8,9,10,11,12,13,14,
15,17)

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

Parker 29A (2X) (5,6)
Parker 32A (2X) (5)
Parker 60A (2X) (2,3,5)
Parker 400 (3X) (2)

Payco Seeds, Dassel, MN 55325

Payco SX342 (2X) (21,22)
Payco 3X400 (2X) (19,21,22)
Payco SX500 (2X) (2,8,13,14,15,
16,17,18,19,21,22)
Payco SX611 (2X) (4,5,6,7,8,9,
10,13,14,15,16,18)
Payco SX620 (2X) (2,4,11,12,25,26)
Payco SX710 (2X) (1,3)
Payco SX750 (2X) (7,9,10)
Payco SX788 (2X) (6)
Payco SX847 (2X) (1,2,3,5,9,10,11,12,14,
15,17)
Payco SX860 (2X) (3)
Payco SX872 (2X) (1,2,4,6,7,8,13)

Paymaster Seeds, Minneapolis, MN 55440

Paymaster 2890 (2X) (4)
Paymaster 2990 (2X) (1,3,4,6,9,10)
Paymaster 4587 (2X) (1,3,4,6,9,10)
Paymaster 4790 (2X) (1,3)
Paymaster 6127 (2X) (1,3,4,6,9,10)
Paymaster 6347 (2X) (1,3)

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

Pickseed 2700 (2X) (19,21,22)
Pickseed 4555 (2X) (19,21,22)
Pickseed 5575 (2X) (11,12,13,14,15,16,
17,18)
Pickseed 8898 (2X) (1,4,7,8)

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Pioneer Hi-Bred International, Inc., Tyston, 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) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,25,26)	Pioneer 3949 (2X) (20,21,22,24)
Pioneer 3744 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,25,26)	Pioneer 3953 (23,24)
	Pioneer 3969 (24)

Prairie Stream Farms, Inc., Frankport, IN 46041

Prairie Stream SX350 (2X) (5)	Prairie Stream SX485 (2X) (5)
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Pro-Seed, Inc., Blissfield, MI 49228

Pro-Seed HL-2454 (2X) (1,3,9,10,13)	Pro-Seed HL-2823 (2X) (1,3)
Pro-Seed HL-2727A (2X) (1,3,9,10,13)	Pro-Seed HL-2830 (2X) (1,3,9,10,13)
Pro-Seed HL-2803 (2X) (1,3,9,10,13)	

Renk Seed Co., Sun Prairie, WI 53559

Renk RK17A (2X) (11,12,13,14,15)	Renk RK60 (2X) (1,3,5,9,10,13,14,15)
Renk RK19 (2X) (9,10,11,12,13,14,15)	Renk RK64 (2X) (1,3,5,9,10,13,14,15)
Renk RK25 (2X) (1,3,5,9,10,13,14,15)	Renk RK66 (2X) (26)
Renk RK26 (2X) (1,3,5,9,10,13,14,15)	Renk RK68 (2X) (1,3,5,9,10,13,14,15)
	Renk RK76 (2X) (1,3,5,9,10,13,14,15)
	Renk R148 (3X) (1,3,5,9,10,11,12,13,14,15)

Rohm & Haas Seeds, Inc., Lebanon, IN 46052

Coker 8534 (2X) (1,2,3)	Coker 8601 (2X) (1,2,3)
Coker 8575 (2X) (1,2,3)	

Rupp Seeds, Inc., Wauseon, OH 43567

Rupp Exp.504 (3X) (1,2,3,4,5,7,9,10,13,16)	Rupp XR1639 (2X) (1,2,3,4,5,9,10,13,16)
Rupp XR1555 (2X) (1,3,4,5,7,9,10,13,16)	Rupp XR1690 (2X) (2,3,4,5,7)
	Rupp XR1707 (2X) (1,2)
	Rupp XR1715 (2X) (2,3,5)

Select Seed Hybrids, Camden, IN 46917

Select Exp.25 (2X) (9,10,14,15)	Select 4144 (2X) (1,3,4,5,9,10)
Select Exp.872 (2X) (1,5)	Select 4701 (2X) (1,3,5)
Select 2626 (2X) (13,14,15)	Select 4800 (2X) (3,4)
Select 3100 (2X) (9,10,13,14,15)	Select 4905 (2X) (5)
Select 3720 (2X) (1,3,4,5,9,10,13,14,15)	Select 5040 (2X) (1,3,4,5)
	Select 5188 (2X) (1,5)

Sohigro/Terra International, Lima, OH 45802

Sohigro S-25 (2X) (11,12,13,14,15)	Sohigro S-40 (2X) (1,13)
Sohigro S-28 (2X) (11,12,13,14,15)	Sohigro S-41 (2X) (1)
Sohigro S-32 (2X) (13,14,15)	Sohigro S-48 (2X) (1)
Sohigro S-35 (2X) (1,14,15)	Sohigro S-1060 (2X) (1)

Sommer Bros. Seed Co., Pekin, IL 61554

Golden Harvest EX564 (2X) (1,2,3)	Golden Harvest H-2424 (2X) (2,3,9,10,13)
Golden Harvest EX717 (2X) (17,18)	Golden Harvest H-2465 (2X) (4,5,6,7,9,10,17)
Golden Harvest EX719 (2X) (17)	Golden Harvest H-2480 (2X) (1,2,3,7,8,13,14,15,17,26)
Golden Harvest EX777 (3X) (24)	Golden Harvest H-2535 (2X) (1,3)
Golden Harvest H-2300 (3X) (6,8)	Golden Harvest H-2572 (2X) (1,2,3,4,7,9,10,11,12,14,15)
Golden Harvest H-2344 (2X) (4,6,8,11,12,13,14,15,18,20,21,22)	Golden Harvest H2604 (2X) (1,4,9,10)

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

Stanton SX90 (2X) (14,15,16,17)	Stanton SX100 (2X) (2,3,7,8,9,10,11,12,13,14,15,16,17)
Stanton SX95 (2X) (7,8,9,10,11,12,13,14,15,16,17)	

Stauffer Seeds, Inc., Madison, WI 53711

Stauffer Seeds S2101 WX (2X) (19)	Stauffer Seeds 4454WX (2X) (7,9,10,11,12,13,16)
Stauffer Seeds S2206 (2X) (19)	Stauffer Seeds S4502 (2X) (14,15,17)
Stauffer Seeds S3303 (2X) (9,10,11,12,14,15,16,19)	Stauffer Seeds S5340 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17,25,26)
Stauffer Seeds S3306 (2X) (7,8,13,16,17,19)	Stauffer Seeds S5650 (2X) (25,26)
Stauffer Seeds S4402 (2X) (9,10,11,12)	Stauffer Seeds S5750 (2X) (1,2,3,5,7,8,9,10,11,12,13,17)
Stauffer Seeds S4414 (2X) (3,4,7,8,11,12,13,14,15,17)	Stauffer Seeds S6596 (2X) (1,4)
	Stauffer Seeds S7751 (2X) (1,9,10,14,15)
	Stauffer Seeds S7759 (2X) (2,3,5,9,10)

Trelay Farms, Inc., Livingston, WI 53554

Trelay 3035 (2X) (17)	Trelay 9009 (2X) (9,10)
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Voris Seeds, Inc., Windfall, IN 46076

Voris V2451 (2X) (13)	Voris V2491 (2X) (1,5)
Voris Exp.2455 (2X) (6,13)	Voris V2515 (2X) (1,5,9,10)
Voris V2471 (2X) (1,6,9,10)	Voris V2525 (2X) (5)

Whitney Dickinson Seeds, Buffalo, NY 14240

Pride Exp.111 (2X) (1,2,3)	Pride 2244 (2X) (9,10,11,12,14,15,16,19,21,22)
Pride R326 (3X) (5,9,10,11,12)	Pride 3376 (2X) (7,9,10,11,12,13,14,15)
Pride X945 (2X) (7,9,10,11,12,13,14,15,16,19,21,22)	Pride 4422 (2X) (7,9,10,11,12,13,14,15)
Pride 1103 (24)	Pride 6656 (2X) (1,2,3)
Pride 1125 (2X) (21,22)	Pride 7705 (2X) (1,2,3,5)
Pride 1194 (2X) (7,11,12,14,15,16,19,21,22)	

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