

1989



Michigan Corn Production

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



## Michigan Corn Production

# HYBRIDS COMPARED 1989

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

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

2

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

Many different hybrids are offered for sale in Michigan. They differ in yield ability, maturity, lodging resistance and other characteristics. Choosing the best corn hybrids is an important part of profitable corn production. By planting the best hybrids, farmers can obtain higher yields and other improvements with little or no increase in production costs. Seed of the best hybrids generally costs no more than seed of hybrids with lower performance.

The highest yielding hybrids in the 1988 trials produced 36 bushels more per acre than the average of 351 hybrids tested (Table A) and 70 bushels more than the lowest yielding hybrids. At 19 testing locations, the yields were 147 bushels for the highest, 111 bushels for the average and 77 bushels for the lowest yielding hybrids. The driest hybrids at harvest contained 5 percent less moisture than the average and 9 percent less moisture than the wettest hybrids tested. Stalk breakage averaged 14 percent for hybrids with the highest amount of stalk lodging, 3 percent for the average and 0.2 percent for the lowest.

### Entries

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

Table 25 presents an index of all hybrids entered in the 1988 trials. At the 19 locations, 351 hybrids from 47 seed companies were tested as 2,072 entries. Company names used in association with hybrid numbers refer to the brand. The number is the hybrid designation.

### 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 30 and May 14. Planting was timely. Stands were good and emergence rapid.

The growing season was very dry (drought) and much warmer than usual. Very dry conditions prevailed during May, June, July and most of August. Extremely high temperatures combined with drought to stress the crop throughout most of the season.



Plant height averaged 21 inches on July 5 compared to 44 last year and 26 for the 5-year average. Plant height averaged 45 inches compared to 70 last year and 60 for the 5-year average by July 25. Thirty percent was silked compared to 75 in 1987 and 40 for 1983-87.

Corn matured much slower than 1987—45 percent dented by September 4 compared to 90 percent in 1987 and 45 percent for the 5-year average. Practically all corn matured before any killing frost occurred.

Rains returned in September, October and November to interfere with harvest. Plant height and yields were typically lower than average. Moisture content of grain averaged 24-26 percent during most of the harvest. Quality of grain was good with good test weight.

Total corn acreage was 2,100,000, down 9 percent from 1987 and 34 percent less than 1985. The Michigan Crop Reporting Service estimates a state average yield of 65 bushels per acre in 1988 on 1,600,000 acres harvested for grain. Total production is estimated at 104,000,000 bushels, 44 percent less than 1987. State average yields were 95 in 1987, 105 in 1986 and 1985, 84 in 1984, 92 in 1983 and 107 (highest on record) in 1982.

## How To Use This Bulletin

One-, two- and three-year averages are presented for all hybrids tested during 1988, 1987 and 1986. 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 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 1988.

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

## How to Choose a Hybrid

### Adaptation

The following map shows the location of the trials and divides Michigan into four maturity zones, but only in a general way. Local variations in weather, soil type and fertility, time of planting and other conditions all affect adaptation. Corn

hybrids are often adapted to more than one zone.

Find the zone in which you plan to grow the corn, and refer to the table that gives results for the trials conducted nearest you. Also, refer to the other tables listed in your zone. A hybrid that has done well at two or more locations is more likely to be a good hybrid for your farm, too.



Corn Maturity Zones and Locations (\*) of Trials

### Planting Rate

High plant populations (20,000 or more per acre) should be considered only for soils consistently producing more than 100 bushels per acre. Rainfall deficiencies with high plant populations usually result in no increase in yield and frequently a decrease, compared to 18,000 to 19,000 plants per acre. Lodging and harvest losses are often greater at higher populations.

### Maturity

Hybrids are listed in the tables in order of maturity (early to late) based on moisture content of the grain at harvest. This is usually a reason-



able, accurate measure of relative maturity in most years in Michigan. Early-maturing hybrids are generally lower in moisture content than later-maturing hybrids. Differences among hybrids in rate of drying in the field also affect moisture content at harvest, but usually do not greatly disturb the relative maturity ratings as determined by moisture content.

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

### For Grain

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

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

### For Silage

The best silage contains a high percentage of grain. Hybrids that produce high yields of grain should be used for silage. High dry-weight production per acre is a better reason for choosing hybrids for silage than tons of green weight.

Corn for silage should reach the early dent stage well before frost in an average year. The

early dent stage, when most of the kernels have dented, is the best time to begin harvest for silage. Dry matter production continues to increase until maturity.

### Other Considerations

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

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

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

### Ways to Reduce Stalk Lodging

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

Hybrid resistance to stalk rot is only one of several factors that determine the extent of stalk breakage. There are no clear-cut cases of specific hybrids that can be depended upon consistently to resist stalk rot under all conditions of soil fertility, plant population, plant stress and maturity. A major part of the difference in resistance to lodging appears to be mechanical—stiffer stalks do not break as soon when disease attacks.

The most effective practice to reduce losses from stalk rot is to harvest as soon as possible after maturity. Stalk breakage continues to increase rapidly in warm, damp weather when harvest is delayed. Early-maturing hybrids that mature in September will have more stalk breakage than late-maturing hybrids harvested in November and December. There may be little or no advantage to planting early-maturing hybrids if harvest is delayed.

To avoid problems, choose high-yielding, early-maturing hybrids, plant early and harvest early.

### Ways to Avoid Moldy Corn in 1989

Use the following recommendations to help prevent moldy corn in 1989.

- 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 1989

Drought cut seed corn production 25-50 percent in 1988, depending on location and irrigation. However, carryover supplies from 1987 production and winter 1988-89 seed production, when added to reduced 1988 seed production, will probably provide adequate seed supplies for 1989. However, choice of hybrids may be limited in some cases.

Farmers are urged to arrange for seed corn for 1989 planting as soon as possible to ensure best choices.



**TABLE A. AVERAGE, HIGHEST AND LOWEST GRAIN YIELD, MOISTURE CONTENT AND STALK LODGING AT 19 LOCATIONS IN 1988**

LOCATION-COUNTY	NO. OF HYBRIDS	BUSHELS PER ACRE			% MOISTURE			% STALK LODGING		
		AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST
MONROE	127	136	172	81	25	30	19	2	12	0
HILLSDALE-IRRIGATED	95	152	199	100	23	27	18	6	18	1
BRANCH	114	148	192	100	23	26	20	1	7	0
KALAMAZOO	100	66	95	41	24	29	21	3	11	0
CASS-UPLAND-IRRIGATED	95	164	211	122	23	25	19	3	19	0
<hr/>										
CASS-MUCK SOIL	71	131	167	94	26	33	21	1	7	0
KENT	77	109	147	74	23	28	20	5	20	0
OTTAWA	76	46	77	31	27	32	21	3	16	0
INGHAM	94	121	147	81	27	32	23	1	3	0
5 SANILAC	100	117	156	90	26	31	21	1	8	0
<hr/>										
SAGINAW	129	99	135	60	23	28	19	8	25	1
HURON	99	101	136	71	27	32	21	3	11	0
ISABELLA	89	72	99	45	27	32	21	2	9	0
MONTCALM-IRRIGATED	76	188	243	150	24	29	19	3	20	0
MONTCALM-NOT IRRIGATED	76	64	85	46	24	29	19	1	5	0
<hr/>										
OCEANA	62	131	171	89	22	24	19	7	20	1
GRAND TRAVERSE	51	60	81	42	24	31	21	5	13	1
ALPENA	39	92	123	61	25	31	22	2	10	0
MENOMINEE	40	116	152	79	24	31	21	2	26	0
<hr/>										
<b>AVERAGE</b>		<b>111</b>	<b>147</b>	<b>77</b>	<b>25</b>	<b>29</b>	<b>20</b>	<b>3</b>	<b>14</b>	<b>0.2</b>



TABLE 01

SOUTHERN MICHIGAN  
Monroe County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2	3	1988	2	3	1988	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
GRIES X-305	19.1	--	--	81.9	--	--	12.4	--	--
COUNTRYMARK C343X	20.2	19	--	93.4	106	--	1.4	6	--
CROW'S 175	20.3	--	--	80.8	--	--	5.3	--	--
PIONEER 3751	20.9	--	--	124.6	--	--	2.9	--	--
TERRA TR32	21.2	20	--	104.1	121	--	1.4	3	--
DEKALB-PFIZER DK524	21.7	21	--	126.6	134	--	3.5	2	--
MAUMEE VALLEY MV-611	21.8	--	--	101.2	--	--	6.6	--	--
GLENN-GERNO 1003	22.0	21	--	118.2	130	--	1.4	5	--
GRIES X-550	22.1	--	--	101.6	--	--	2.8	--	--
CROW'S 195	22.2	--	--	104.8	--	--	5.8	--	--
PIONEER 3475	22.4	21	22	137.0	149	161	4.1	5	4
RENKS RK627	22.5	--	--	100.9	--	--	0.0	--	--
PAYCO AX687	22.7	--	--	107.4	--	--	5.0	--	--
MAUMEE VALLEY MV-630	23.0	--	--	107.1	--	--	0.0	--	--
TERRA TR975	23.0	21	--	105.7	123	--	0.0	3	--
DEKALB-PFIZER DK535	23.1	--	--	102.3	--	--	3.4	--	--
TERRA TR164E	23.2	--	--	122.7	--	--	2.8	--	--
PAYCO 648	23.2	--	--	110.7	--	--	0.0	--	--
DAIRYLAND DX1104	23.4	--	--	122.2	--	--	0.0	--	--
GLENN-GARNO 10747X	23.5	--	--	140.6	--	--	0.0	--	--
PRO-SEED 83096	23.6	--	--	107.4	--	--	11.2	--	--
GLENN-GARNO 1008	23.6	--	--	142.3	--	--	3.6	--	--
AGRIPRO AP364	23.7	--	--	116.8	--	--	2.9	--	--
KING K448	23.7	--	--	118.4	--	--	1.5	--	--
SEEDTEC ST-6800	23.8	--	--	102.8	--	--	0.7	--	--
NORTHRUP KING N6321	23.9	22	--	147.7	153	--	2.1	3	--
SELECT 3720	23.9	23	23	149.9	143	155	0.0	3	4
PRO-SEED 93105	24.0	--	--	126.0	--	--	2.2	--	--
ANDERSONS PSX106	24.0	--	--	123.5	--	--	2.9	--	--
DAIRLAND DX1103	24.1	23	--	109.0	120	--	1.4	4	--
PRO-SEED 83106	24.2	--	--	133.0	--	--	2.8	--	--
CROW'S 210	24.2	22	--	112.5	112	--	1.5	3	--
DEKALB-PFIZER DK547	24.3	22	--	132.5	152	--	1.4	3	--
AGRIPRO AP680	24.3	23	--	149.1	140	--	0.0	4	--
MAUMEE VALLEY MV-762	24.3	--	--	145.1	--	--	2.9	--	--
MCCURDY 4925	24.3	--	--	102.9	--	--	2.2	--	--
GLENN-GARNO EX107X	24.3	--	--	110.7	--	--	2.8	--	--
BECK'S 39X	24.4	22	--	144.3	150	--	0.0	3	--
FUNK G-4425	24.5	--	--	124.9	--	--	0.0	--	--
GRIES X-580	24.5	23	23	121.1	139	151	0.7	3	3

(continued below)

TABLE 01 (CONTINUED)

SOUTHERN MICHIGAN  
Monroe County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2	3	1988	2	3	1988	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
CARGILL 6927	26.1	--	--	143.7	--	--	2.2	--	--
TERRA TR1060	26.1	24	24	142.3	143	148	4.2	5	5
CARGILL 6227	26.2	--	--	138.0	--	--	1.4	--	--
*CARGILL 7993	26.2	--	--	161.1	--	--	0.7	--	--
*GOLDEN HARVEST H-2532	26.2	--	--	168.9	--	--	0.0	--	--
*GLENN-GARNO 1012	26.2	24	--	170.2	172	--	1.4	3	--
*AGRIPRO AP525	26.3	--	--	156.0	--	--	2.2	--	--
*TERRA TR1125	26.3	24	--	156.0	146	--	0.0	4	--
SELECT 4850	26.3	24	--	150.1	146	--	0.0	3	--
DAIRYLAND DX1014	26.3	--	--	140.5	--	--	0.0	--	--
GLENN-GARNO 1010	26.3	--	--	128.1	--	--	0.0	--	--
*GREAT LAKES GL-582	26.4	24	--	162.7	159	--	3.1	5	--
*TERRA TR1110	26.4	--	--	154.6	--	--	1.5	--	--
SELECT 4144	26.4	24	24	130.1	136	151	0.7	3	3
*SELECT 5040	26.4	25	25	161.6	150	158	0.0	5	5
SELECT 4701	26.4	24	24	127.7	146	151	2.3	6	6
*KING K647	26.5	25	25	164.7	141	155	0.7	3	3
RENK RK76	26.5	25	25	144.2	152	171	0.0	2	3
RUPP XR1739	26.5	--	--	146.9	--	--	0.0	--	--
*TERRA TR1120	26.6	--	--	155.4	--	--	1.4	--	--
DAIRYLAND DX1017	26.6	26	26	142.3	148	167	2.1	5	4
RENK RK721	26.6	--	--	140.2	--	--	0.0	--	--
*LEADER SX574	26.7	--	--	169.0	--	--	1.5	--	--
*ASGROW/O'S GOLD RX759	26.8	--	--	159.7	--	--	0.7	--	--
COUNTRYMARK C660X	26.9	--	--	140.1	--	--	0.7	--	--
HERITAGE BANKER SPANKER	26.9	--	--	144.1	--	--	1.4	--	--
CROW'S 482	26.9	24	--	144.9	135	--	0.0	4	--
*AMCORN PSX9012	26.9	--	--	164.0	--	--	1.4	--	--
GREAT LAKES GL-590	27.0	--	--	149.7	--	--	1.4	--	--
*GREAT LAKES GL-599	27.2	25	25	157.6	157	168	1.5	3	3
*NORTHRUP KING N7705	27.2	26	25	169.0	160	175	0.0	2	3
*GOLDEN HARVEST EX480	27.3	--	--	157.2	--	--	2.8	--	--
*BECK'S 64XA	27.4	25	25	169.5	171	179	0.7	4	5
*GOLDEN HARVEST H-2572	27.5	25	26	155.2	152	158	0.0	2	2
*CALLAHAN 20041X	27.5	--	--	155.5	--	--	2.1	--	--
*BECK'S 62XA	27.6	--	--	167.0	--	--	0.0	--	--
CALLAHAN C771	27.6	--	--	142.6	--	--	1.4	--	--
*BECK'S EX0095	27.7	--	--	171.5	--	--	0.0	--	--
*JACQUES 7820	27.8	--	--	152.1	--	--	2.7	--	--
PRO-SEED 84112	28.2	--	--	138.8	--	--	1.4	--	--

(continued below)



TABLE 01 (CONTINUED) SOUTHERN MICHIGAN  
Monroe County Trial  
ZONE 1  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
RENK RK64	24.5	23	23	142.3	146	153	2.0	4	7
GREAT LAKES GL-509	24.6	22	--	145.2	149	--	0.7	6	--
TRELAY 8007	24.6	--	--	117.3	--	--	0.7	--	--
COUNTRYMARK C565X	24.6	23	24	137.5	140	147	0.7	4	3
SEEDTEC ST-7500	24.6	--	--	125.1	--	--	1.4	--	--
ANDERSONS PSX103	24.6	23	--	102.1	116	--	3.6	6	--
CROW'S 442	24.6	22	23	137.7	137	152	2.2	4	5
GLENN-GARNO 1007	24.6	23	23	150.8	155	163	0.7	4	4
GLENN-GARNO 107A5X	24.6	--	--	104.6	--	--	5.4	--	--
CARGILL 6127	24.7	23	--	131.2	135	--	3.5	5	--
PAYCO SX872	24.7	--	--	148.2	--	--	0.7	--	--
TERRA TR1040	24.7	23	23	142.0	151	163	0.0	3	4
AMCORN PSX9009	24.7	--	--	138.5	--	--	1.4	--	--
ASGROW/O'S GOLD RX626	24.8	22	--	104.4	120	--	0.7	5	--
DAIRYLAND DX1106	24.8	--	--	115.6	--	--	1.4	--	--
ANDERSONS PSX108	24.9	--	--	106.4	--	--	2.0	--	--
GREAT LAKES GL-579	25.0	23	23	149.9	155	165	0.7	3	4
*MCCURDY 6660	25.0	--	--	157.9	--	--	0.7	--	--
PIONEER 3585	25.2	--	--	125.7	--	--	1.4	--	--
KING K5574	25.2	23	23	144.1	138	159	0.7	3	2
HERITAGE GREEN MACHINE	25.2	--	--	137.4	--	--	2.9	--	--
DAIRYLAND DX1107	25.2	24	24	140.9	147	155	0.7	5	5
MCCURDY 5990	25.2	--	--	146.5	--	--	1.4	--	--
ASGROW/O'S GOLD RX578	25.3	22	--	132.8	145	--	3.6	4	--
RUPP XR1639	25.4	23	23	119.6	142	153	2.9	2	4
SUPER CROST 2989	25.5	24	23	132.0	148	159	0.7	3	4
JACQUES 7700	25.5	24	24	127.3	134	150	0.7	3	3
*PIONEER 3352	25.5	24	24	153.1	158	167	2.1	2	3
SEEDTEC ST-7446	25.6	--	--	143.4	--	--	1.4	--	--
*CROW'S 488	25.6	24	24	163.3	164	171	0.0	3	3
CALLAHAN C765	25.6	--	--	134.4	--	--	0.0	--	--
FUNK G-4485	25.7	--	--	128.8	--	--	1.4	--	--
AGRIPRO AP595	25.7	--	--	142.1	--	--	0.0	--	--
PAYCO 748	25.8	--	--	130.9	--	--	0.7	--	--
KING K598	25.9	--	--	132.1	--	--	0.0	--	--
ASGROW/O'S GOLD RX746	26.0	--	--	116.9	--	--	0.0	--	--
*PRO-SEED 83108	26.0	--	--	154.3	--	--	0.0	--	--
MAUMEE VALLEY MV-851	26.1	--	--	147.0	--	--	0.0	--	--
*MAUMEE VALLEY MV-888	26.1	--	--	168.3	--	--	0.7	--	--
*MAUMEE VALLEY MV-812	26.1	--	--	160.5	--	--	0.7	--	--

(continued top right)

TABLE 01 (CONTINUED) SOUTHERN MICHIGAN  
Monroe County Trial  
ZONE 1  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
DAIRYLAND DX1015	28.2	26	--	123.9	136	--	0.7	3	--
*GOLDEN HARVEST H-2525	28.6	--	--	153.7	--	--	0.7	--	--
MAUMEE VALLEY MV-910	29.1	--	--	150.1	--	--	0.0	--	--
*PIONEER 3379	29.4	--	--	155.0	--	--	0.7	--	--
*SUPER CROST 4877	30.0	--	--	155.4	--	--	0.7	--	--
NORTHRUP KING N6348	30.0	--	--	146.8	--	--	0.0	--	--
*SELECT 4988	30.4	--	--	165.9	--	--	1.4	--	--
AVERAGE	25.3	23	24	136.0	143	159	1.6	4	4
RANGE	19.1	19	22	80.8	106	147	0.0	2	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	30.4	26	26	171.5	172	179	12.4	6	7
LEAST SIGNIFICANT DIFFERENCE	1.6	1.0	0.8	15.0	10	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 7	May 1	May 5
HARVESTED	October 24	October 15	October 28
SOIL TYPE	Brookston loam	Brookston loam	Brookston loam
PREVIOUS CROP	Soybeans	Corn	Wheat
POPULATION	21,500	21,600	21,800
ROWS	30"	30"	30"
FERTILIZER	142-73-180	184-104-180	170-68-90
SOIL TEST: pH	6.6	6.8	6.8
P	145 (very high)	85 (high)	97 (high)
K	400 (very high)	278 (high)	128 (low)

FARM COOPERATOR: Gerald Heath, Milan

COUNTY AGRICULTURAL AGENT: David Pratt, Monroe



TABLE 02

SOUTHERN MICHIGAN  
Hillsdale County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GRIES X-305	18.0	--	--	106.8	--	--	18.0	--	--
LEADER SX482	19.0	--	--	100.5	--	--	7.3	--	--
PAYCO SX687	19.9	--	--	125.6	--	--	9.0	--	--
PIONEER 3751	20.0	--	--	157.2	--	--	4.5	--	--
COUNTRYMARK C343X	20.0	19	--	100.4	96	--	11.1	11	--
DAIRYLAND DX1104	20.2	--	--	120.7	--	--	8.8	--	--
DEKALB-PFIZER DK524	20.5	20	--	146.9	135	--	3.6	5	--
WOLVERINE W163	20.5	--	--	118.7	--	--	6.6	--	--
MCCURDY 5750	20.6	21	--	112.2	125	--	16.5	12	--
GLENN-GARNO 107A5X	20.7	--	--	107.3	--	--	6.1	--	--
CROW'S 210	20.8	20	--	127.0	117	--	8.5	9	--
GRIES X-550	20.9	--	--	107.3	--	--	9.1	--	--
NORTHROP KING N6321	20.9	21	--	152.2	148	--	6.8	5	--
KING K448	20.9	--	--	126.9	--	--	9.5	--	--
RENK RK627	21.0	--	--	160.0	--	--	3.8	--	--
GLENN-GARNO 1007	21.0	21	22	152.9	142	152	8.3	7	8
GLENN-GARNO 1003	21.0	20	--	114.0	121	--	7.9	8	--
DEKALB-PFIZER DK535	21.1	--	--	162.8	--	--	5.0	--	--
WOLVERINE X1108	21.1	--	--	122.8	--	--	13.0	--	--
ASGROW/O'S GOLD RX578	21.1	21	--	134.8	129	--	7.0	7	--
SEDEX 995	21.1	--	--	102.9	--	--	6.7	--	--
DAIRYLAND DX1103	21.1	22	--	131.2	123	--	8.8	9	--
BETAGOLD MARIA	21.2	--	--	157.9	--	--	1.5	--	--
AMCORN PSX 9009	21.2	--	--	151.5	--	--	7.6	--	--
*PAYCO SX872	21.3	21	22	173.7	140	147	3.6	6	5
GRIES X-580	21.4	21	22	156.1	145	143	6.7	6	6
*GLENN-GARNO EX107X	21.4	--	--	184.4	--	--	2.9	--	--
AGRIPRO AP364	21.5	--	--	114.1	--	--	3.7	--	--
BETAGOLD HANNA	21.5	--	--	122.5	--	--	5.3	--	--
RENK RX64	21.5	--	--	163.8	--	--	7.2	--	--
*LEADER SX502	21.6	--	--	169.1	--	--	4.5	--	--
KING K5574	21.7	21	22	129.8	124	136	11.1	9	7
COUNTRYMARK C565X	21.7	21	22	152.5	131	139	8.8	11	8
PAYCO 648	21.7	--	--	126.3	--	--	3.8	--	--
FUNK G-4425	21.8	--	--	142.5	--	--	3.5	--	--
*GREAT LAKES GL-509	21.8	--	--	186.8	--	--	4.1	--	--
*PIONEER 3352	21.8	22	23	197.6	171	181	4.3	5	3
PAYCO 748	21.8	--	--	166.3	--	--	3.5	--	--
*GLENN-GARNO 1008	21.8	--	--	169.2	--	--	9.4	--	--
DAIRYLAND DX1106	21.9	--	--	148.4	--	--	6.5	--	--

(continued below)

TABLE 02 (CONTINUED)

SOUTHERN MICHIGAN  
Hillsdale County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
*CARGILL 6227	24.3	--	--	169.8	--	--	3.7	--	--
FUNK G-4485	24.4	--	--	157.0	--	--	3.6	--	--
*GOLDEN HARVEST H-2532	24.4	--	--	179.0	--	--	5.6	--	--
*CALLAHAN C771	24.5	--	--	181.1	--	--	2.1	--	--
NORTHROP KING S7751	24.7	--	--	152.7	--	--	2.2	--	--
*KING K647	24.7	24	25	181.9	152	145	3.1	4	5
*PARKER 63	24.7	24	--	173.0	147	--	8.9	6	--
*BECK'S EX0095	24.7	--	--	180.7	--	--	5.6	--	--
RENK RK803	24.9	--	--	140.5	--	--	8.0	--	--
GOLDEN HARVEST EX480	24.9	--	--	147.4	--	--	3.6	--	--
*SUPER CROST 4877	25.1	--	--	194.0	--	--	5.3	--	--
*GLENN-GARNO 1042	25.2	23	--	184.2	164	--	2.2	7	--
BECK'S 64XA	25.2	24	25	147.8	147	163	2.9	4	3
DAIRYLAND DX1017	25.7	25	25	146.3	153	160	3.6	4	4
ASGROW/O'S GOLD RX759	26.6	--	--	146.4	--	--	0.7	--	--
AVERAGE	22.5	22	23	152.2	142	154	5.9	6	5
RANGE	18.0	19	22	100.4	96	136	0.7	2	3
	26.6	25	25	198.8	171	181	18.0	12	8
LEAST SIGNIFICANT DIFFERENCE	1.6	1.0	0.8	16.8	9	6	--	--	--
*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988									

	1988	1987	1986
PLANTED	April 30	May 1	May 2
HARVESTED	October 26	October 15	October 29
SOIL TYPE	Hillsdale-Riddles sandy loam	Hillsdale-Riddles sandy loam	Hillsdale-Riddles sandy loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,800	21,700	22,000
ROWS	30"	30"	30"
FERTILIZER	188-45-98	208-33-128	183-46-62
SOIL TEST: pH	6.8	6.7	6.3
P	268 (very high)	223 (very high)	196 (very high)
K	424 (very high)	437 (very high)	177 (medium)

FARM COOPERATOR: Richard Godfrey, Jonesville

EXTENSION FIELD CROPS AGENT: Natalie Rector, Marshall

COUNTY EXTENSION DIRECTOR: Jim Pelham, Hillsdale



TABLE 02 (CONTINUED) SOUTHERN MICHIGAN  
Hillsdale County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE		BUSHELS PER ACRE			% STALK LODGING			
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
ASGROW/O'S GOLD RX626	22.0	22	--	157.9	132	--	5.3	8	--
ANDERSON PSX106	22.0	--	--	154.4	--	--	11.0	--	--
PIONEER 3585	22.1	--	--	153.6	--	--	6.9	--	--
CARGILL 6127	22.1	22	--	162.5	158	--	6.0	7	--
GREAT LAKES GL-566	22.2	--	--	157.5	--	--	2.2	--	--
PIONEER 3475	22.2	22	22	160.2	153	162	2.2	3	4
SEDEX 1060	22.3	--	--	144.6	--	--	9.0	--	--
COUNTRYMARK C660X	22.3	--	--	148.7	--	--	8.1	--	--
CARGILL 5927	22.3	--	--	150.8	--	--	2.9	--	--
MCCURDY 4925	22.4	--	--	143.4	--	--	8.0	--	--
*AGRIPRO AP525	22.6	--	--	175.5	--	--	8.3	--	--
DAIRYLAND DX1107	22.6	22	23	154.3	153	156	2.9	2	4
*RUPP XR1739	22.6	--	--	190.0	--	--	4.4	--	--
ANDERSONS PSX103	22.8	22	--	142.5	137	--	6.3	6	--
*PIONEER 3379	22.9	--	--	194.2	--	--	0.7	--	--
CROW'S 482	22.9	22	--	159.5	146	--	0.7	3	--
*GREAT LAKES GL-582	23.0	22	--	191.1	162	--	4.4	6	--
RENK RK76	23.0	--	--	155.6	--	--	1.5	--	--
*PARKER 400	23.1	23	24	191.9	171	163	3.8	3	4
*LEADER SX574	23.2	--	--	183.5	--	--	9.5	--	--
*CALLAHAN 20041X	23.2	--	--	198.8	--	--	4.5	--	--
*GREAT LAKES GL-599	23.3	--	--	178.0	--	--	2.2	--	--
*DAIRYLAND DX1015	23.3	24	--	191.2	164	--	3.5	4	--
GLENN-GARNO 1010	23.3	--	--	146.1	--	--	4.4	--	--
*BECK'S 62XA	23.3	--	--	189.9	--	--	6.7	--	--
MCCURDY 6660	23.5	--	--	153.8	--	--	7.5	--	--
*JACQUES 7820	23.6	--	--	174.3	--	--	5.2	--	--
CARGILL 7993	23.6	--	--	147.8	--	--	6.2	--	--
*AMCORN PSX9012	23.6	--	--	178.0	--	--	2.9	--	--
JACQUES 7770	23.7	23	--	142.6	138	--	7.5	7	--
AGRIPRO AP510	23.7	23	--	164.9	143	--	6.9	5	--
CARGILL 6927	23.8	--	--	147.3	--	--	5.3	--	--
GOLDEN HARVEST H-2525	23.9	--	--	158.4	--	--	7.3	--	--
CALLAHAN C765	23.9	--	--	149.6	--	--	7.5	--	--
SEDEX 1085	24.0	--	--	142.3	--	--	8.1	--	--
DAIRYLAND DX1014	24.0	--	--	158.2	--	--	7.6	--	--
GOLDEN HARVEST H-2572	24.0	24	24	150.7	149	157	3.1	4	5
GLENN-GARNO 10747X	24.1	--	--	154.6	--	--	2.9	--	--
ASGROW/O'S GOLD RX746	24.2	--	--	157.2	--	--	3.6	--	--
KING K598	24.2	--	--	127.4	--	--	3.3	--	--

(continued top right)

TABLE 03 SOUTHERN MICHIGAN  
Branch County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE		BUSHELS PER ACRE			% STALK LODGING			
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
COUNTRYMARK C343X	19.6	19	--	119.9	125	--	2.8	3	--
GRIES X-305	19.8	--	--	107.3	--	--	6.7	--	--
CROW'S 175	19.9	--	--	100.4	--	--	0.8	--	--
MAUMEE VALLEY MV-611	20.0	20	20	133.9	133	134	3.1	3	2
CROW'S 195	20.2	--	--	144.0	--	--	1.5	--	--
TERRA TR32	20.3	20	--	118.1	134	--	0.8	4	--
GLENN-GARNO 1003	20.4	20	--	131.0	149	--	1.5	2	--
GRIES X-550	20.7	--	--	108.9	--	--	0.8	--	--
GLENN-GARNO 107A5X	20.7	--	--	108.2	--	--	1.4	--	--
PIONEER 3751	20.8	--	--	146.8	--	--	0.0	--	--
BECK'S 52X	20.8	21	--	160.3	166	--	5.5	5	--
TERRA TR975	20.9	20	--	133.3	141	--	3.0	4	--
GLENN-GARNO 1008	20.9	--	--	155.7	--	--	0.8	--	--
BECK'S 49X	21.1	20	21	130.9	149	166	3.0	4	3
*DEKALB-PFIZER DK524	21.3	21	--	166.0	159	--	0.0	2	--
KING K5574	21.3	21	21	157.2	145	159	1.4	2	3
RENK RK627	21.3	--	--	120.7	--	--	0.0	--	--
*NORTHROP KING N6321	21.4	21	--	171.2	167	--	2.3	2	--
RENK RK64	21.4	22	22	148.7	156	162	0.0	2	3
MCCURDY 5990	21.4	--	--	161.5	--	--	1.5	--	--
PAYCO SX872	21.4	--	--	146.0	--	--	1.5	--	--
GARST 8555	21.5	21	--	122.0	137	--	0.7	2	--
PAYCO SX687	21.5	--	--	112.4	--	--	0.7	--	--
MAUMEE VALLEY MV-630	21.6	20	20	140.1	141	141	1.5	3	3
ASGROW/O'S GOLD RX626	21.7	21	--	140.4	145	--	1.5	3	--
*GLENN-GARNO 1007	21.7	21	21	164.2	166	175	0.0	2	2
AMCORN PSX9009	21.7	--	--	159.0	--	--	1.5	--	--
DEKALB-PFIZER DK547	21.8	--	--	146.2	--	--	1.5	--	--
ASGROW/O'S GOLD RX578	21.8	21	--	142.5	154	--	1.4	2	--
TERRA TR164E	21.8	--	--	136.8	--	--	0.0	--	--
DAIRYLAND DX1106	21.8	--	--	137.0	--	--	0.0	--	--
FUNK G-4425	21.9	--	--	116.7	--	--	1.5	--	--
GREAT LAKES GL-509	21.9	--	--	163.0	--	--	1.5	--	--
*GREAT LAKES GL-579	21.9	21	21	166.8	169	178	1.6	2	2
MAUMEE VALLEY MV-762	21.9	21	22	131.0	145	162	1.5	2	3
MCCURDY 4925	21.9	--	--	161.9	--	--	0.8	--	--
ANDERSONS PSX103	21.9	21	22	136.5	145	157	1.4	2	4
SELECT 4701	22.0	21	21	162.2	159	165	5.0	4	4
ANDERSONS PSX106	22.0	--	--	123.2	--	--	0.0	--	--
PIONEER 3475	22.1	21	21	158.8	162	174	0.0	1	2

(continued next page)



TABLE 03 (CONTINUED)

SOUTHERN MICHIGAN  
Branch County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
AGRIPRO AP680	22.1	21	22	120.8	150	162	2.2	3	4
*CARGILL 6227	22.1	--	--	165.7	--	--	1.4	--	--
DAIRYLAND DX1104	22.1	--	--	135.7	--	--	0.0	--	--
PAYCO 748	22.1	--	--	156.9	--	--	3.2	--	--
JACQUES 7700	22.2	22	21	151.2	162	167	2.9	3	3
RENK RK721	22.2	--	--	144.3	--	--	0.8	--	--
GRIES X-580	22.3	22	--	141.7	142	--	5.8	3	--
*CROW'S 488	22.3	22	--	177.3	171	--	0.7	2	--
GLENN-GARNO EX107X	22.3	--	--	160.3	--	--	0.0	--	--
DAIRYLAND DX1013	22.4	21	--	119.6	132	--	0.0	2	--
CALLAHAN 20041X	22.4	--	--	151.2	--	--	0.7	--	--
*GREAT LAKES GL-582	22.5	22	--	191.6	180	--	0.0	2	--
*PIONEER 3379	22.5	--	--	186.4	--	--	2.2	--	--
CARGILL 6127	22.5	22	22	141.3	143	158	1.3	2	3
COUNTRYMARK C660X	22.5	--	--	146.0	--	--	0.7	--	--
DAIRYLAND DX1107	22.5	22	22	124.0	138	158	0.0	2	3
AGRIPRO AP525	22.6	--	--	140.0	--	--	0.0	--	--
KING K448	22.6	--	--	119.8	--	--	0.0	--	--
PAYCO 648	22.6	--	--	119.0	--	--	0.0	--	--
TERRA TR1040	22.6	21	--	134.1	142	--	3.0	3	--
*DEKALB-PFIZER DK572	22.8	22	22	164.7	165	174	2.2	3	3
PIONEER 3585	22.9	--	--	131.6	--	--	0.0	--	--
COUNTRYMARK C565X	23.0	22	22	140.2	144	165	2.2	4	4
ANDERSONS PSX108	23.0	--	--	125.6	--	--	0.0	--	--
*GREAT LAKES GL-590	23.1	22	--	163.7	171	--	0.0	1	--
CARGILL SX269	23.1	--	--	144.0	--	--	0.0	--	--
*KING K647	23.3	23	23	181.3	157	167	0.8	2	2
*GOLDEN HARVEST H-2532	23.3	--	--	183.0	--	--	2.2	--	--
AMCORN PSX9012	23.3	--	--	161.9	--	--	0.0	--	--
*NORTHROP KING PX9540	23.4	23	23	187.0	168	182	0.0	1	3
AGRIPRO AP510	23.4	23	23	156.4	154	173	0.0	1	2
*TERRA TR1120	23.4	--	--	173.0	--	--	0.0	--	--
*GLENN-GARNO 1012	23.4	23	--	179.4	169	--	0.8	0	--
*SELECT 5015	23.5	22	--	174.3	174	--	0.0	1	--
*SELECT 5040	23.5	23	23	166.2	163	169	0.0	1	2
BECK'S 65X	23.5	23	23	161.5	168	179	0.0	1	2
*BECK'S 63X	23.5	23	23	176.4	173	183	0.7	2	2
TERRA TR1125	23.6	23	--	161.5	155	--	0.0	2	--
*NORTHROP KING 7705	23.7	23	23	189.3	180	190	0.7	3	2
ANDERSONS PSX107	23.7	23	22	148.5	154	167	1.6	2	2

(continued below)

TABLE 03 (CONTINUED)

SOUTHERN MICHIGAN  
Branch County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
AVERAGE	22.7	22	22	147.5	157	169	1.1	2	3
RANGE	19.6	19	20	100.4	125	134	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	25.6	23	24	191.6	182	190	6.7	5	4
LEAST SIGNIFICANT DIFFERENCE	1.6	1.0	0.8	16.1	10	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	April 30	May 6	May 8
HARVESTED	October 26	October 16	October 29
SOIL TYPE	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,000	21,800	22,000
ROWS	30"	30"	30"
FERTILIZER	226-92-0	216-92-180	36-92-120
SOIL TEST: pH	6.4	6.5	5.6
P	258 (very high)	264 (very high)	350 (very high)
K	301 (very high)	181 (medium)	211 (medium)

FARM COOPERATOR: David LaBar, Union City

EXTENSION FIELD CROPS AGENT: Natalie Rector, Marshall

COUNTY EXTENSION DIRECTOR: Ray Fast, Coldwater



TABLE 03 (CONTINUED)

SOUTHERN MICHIGAN  
Branch County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
*GOLDEN HARVEST H-2572	23.7	23	23	184.1	173	188	1.6	2	3
TERRA TR1060	23.7	23	--	159.8	171	--	1.5	2	--
MAUMEE VALLEY MV-851	23.8	22	22	161.1	166	172	0.0	2	3
SELECT 4850	23.8	23	--	141.3	152	--	0.0	3	--
DAIRYLAND DX1014	23.8	--	--	162.7	--	--	1.5	--	--
DAIRYLAND DX1015	23.8	23	--	160.5	159	--	0.8	2	--
*RENK RK76	23.8	23	23	189.3	182	188	0.0	2	2
SUPER CROST 4366	23.9	--	--	126.9	--	--	0.0	--	--
*MAUMEE VALLEY MV-888	23.9	23	--	176.8	171	--	0.0	2	--
*TERRA TR1110	23.9	--	--	175.4	--	--	0.0	--	--
CARGILL 6927	23.9	--	--	126.3	--	--	0.0	--	--
RUPP XR1739	23.9	--	--	151.9	--	--	2.3	--	--
*GLENN-GARNO 1010	24.0	--	--	163.7	--	--	0.0	--	--
GLENN-GARNO 10747X	24.0	--	--	140.2	--	--	1.4	--	--
*CALLAHAN C771	24.0	--	--	163.8	--	--	0.0	--	--
*SELECT 4972	24.1	22	--	165.1	161	--	1.8	1	--
*BECK'S 64XA	24.2	23	23	182.9	175	189	0.7	2	2
CALLAHAN C765	24.2	--	--	142.8	--	--	0.0	--	--
*FUNK G-4485	24.3	--	--	165.0	--	--	0.7	--	--
SELECT 5188	24.3	--	--	162.0	--	--	0.0	--	--
JACQUES 7770	24.4	23	--	154.4	160	--	0.0	3	--
MAUMEE VALLEY MV-812	24.4	--	--	155.9	--	--	2.9	--	--
*SELECT 4988	24.4	--	--	185.8	--	--	0.7	--	--
DAIRYLAND DX1017	24.5	23	24	148.6	153	166	0.0	0	2
*RUPP XR1827	24.6	--	--	184.8	--	--	0.0	--	--
*PIONEER 3352	24.8	23	23	171.5	173	186	0.0	0	0
ASGROW/O'S GOLD RX746	24.8	--	--	142.6	--	--	0.0	--	--
*CARGILL 7993	24.8	--	--	170.5	--	--	2.2	--	--
*KING K598	24.9	--	--	171.9	--	--	0.8	--	--
MCCURDY 6660	24.9	--	--	156.1	--	--	0.8	--	--
*SUPER CROST 4877	25.1	--	--	187.4	--	--	0.0	--	--
AGRIPRO AP710A	25.2	23	23	129.2	149	164	0.7	1	2
ASGROW/O'S GOLD RX759	25.6	--	--	152.5	--	--	2.2	--	--

(continued top right)

TABLE 04

SOUTHERN MICHIGAN  
Kalamazoo County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GRIES X305	20.9	--	--	42.4	--	--	8.6	--	--
CROW'S 175	21.1	--	--	40.6	--	--	2.3	--	--
DEKALB-PFIZER DK524	21.2	20	--	63.0	74	--	3.1	3	--
PAYCO SX687	21.3	--	--	46.6	--	--	3.9	--	--
WOLVERINE W156	21.5	20	--	45.6	63	--	10.7	8	--
AGRIPRO AP364	22.0	--	--	49.5	--	--	4.0	--	--
TERRA TR975	22.2	21	--	47.6	62	--	3.9	4	--
CROW'S 195	22.2	--	--	57.8	--	--	2.3	--	--
ASGROW/O'S GOLD RX578	22.3	21	--	48.5	51	--	2.2	3	--
COUNTRYMARK C343X	22.3	20	--	61.8	71	--	8.8	7	--
PIONEER 3737	22.4	20	21	67.6	82	101	3.8	3	3
DAIRYLAND DX1104	22.4	--	--	65.4	--	--	0.0	--	--
*GLENN-GARNO 1003	22.5	21	--	79.9	82	--	0.0	2	--
GREAT LAKES GL-566	22.6	--	--	72.1	--	--	5.0	--	--
PIONEER 3585	22.7	--	--	62.7	--	--	4.6	--	--
DAIRYLAND DX1106	22.7	--	--	69.5	--	--	2.7	--	--
PAYCO 748	22.7	--	--	72.1	--	--	7.3	--	--
TERRA TR32	22.7	21	--	44.7	64	--	2.1	4	--
*GLENN-GARNO EX107X	22.7	--	--	82.9	--	--	2.3	--	--
GRIES X550	22.8	--	--	61.6	--	--	3.2	--	--
TERRA TR164E	22.8	--	--	50.9	--	--	3.0	--	--
DEKALB-PFIZER DK547	22.9	--	--	55.2	--	--	3.1	--	--
KING K448	23.2	--	--	72.1	--	--	1.5	--	--
WOLVERINE W163	23.3	22	--	43.3	62	--	2.2	3	--
RENK RK627	23.3	--	--	69.2	--	--	2.3	--	--
CROW'S 210	23.3	21	--	55.1	77	--	2.3	2	--
*NORTHROP KING N6321	23.4	22	--	94.5	96	--	3.9	3	--
ASGROW/O'S GOLD RX626	23.5	22	--	60.8	67	--	1.6	3	--
ANDERSONS PSX107	23.5	--	--	58.4	--	--	5.7	--	--
*GRIES X580	23.6	22	--	80.7	71	--	0.9	2	--
GREAT LAKES GL509	23.6	--	--	72.5	--	--	0.8	--	--
PIONEER 3475	23.6	22	22	67.6	82	111	2.3	3	2
*TERRA TR1125	23.6	22	--	83.0	87	--	1.8	3	--
*JACQUES 7700	23.7	22	22	79.5	73	94	1.9	2	2
CARGILL 6127	23.7	22	22	45.7	58	84	8.3	6	5
COUNTRYMARK C565X	23.7	22	22	43.5	50	77	5.3	3	4
MCCURDY 4925	23.7	--	--	64.5	--	--	0.0	--	--
WOLVERINE X1108	23.8	--	--	50.9	--	--	2.3	--	--
*KING K5574	23.8	22	22	80.8	80	104	0.0	2	2
ANDERSONS PSX106	23.8	--	--	46.2	--	--	3.0	--	--

(continued next page)



TABLE 04 (CONTINUED)

SOUTHERN MICHIGAN  
Kalamazoo County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
*TERRA TR1040	23.8	22	--	82.0	88	--	2.3	2	--
GLENN-GARNO 107A5X	23.8	--	--	51.4	--	--	3.0	--	--
NORTHROP KING S5987WX	23.9	--	--	42.2	--	--	1.5	--	--
*PAYCO 648	24.0	--	--	80.2	--	--	3.9	--	--
AMCORN PSX9009	24.0	--	--	51.5	--	--	7.1	--	--
DAIRYLAND DX1103	24.1	22	--	56.8	76	--	1.5	3	--
CARGILL 5927	24.2	--	--	67.3	--	--	4.8	--	--
DAIRYLAND DX1101	24.2	22	23	52.7	63	90	3.1	3	3
MCCURDY 5750	24.3	23	--	73.5	85	--	0.8	2	--
GOLDEN HARVEST H-2465	24.3	22	--	50.9	61	--	3.0	3	--
RENK RK721	24.4	--	--	60.9	--	--	3.1	--	--
CROW'S 482	24.4	23	--	55.2	68	--	3.1	3	--
SEEDTEC ST-6800	24.5	--	--	61.7	--	--	3.1	--	--
GLENN-GARNO 1008	24.5	--	--	61.1	--	--	4.3	--	--
*RENK RK64	24.6	23	--	80.0	78	--	6.3	5	--
GLENN-GARNO 10747X	24.6	--	--	43.3	--	--	1.6	--	--
*SUPER CROST 4877	24.7	--	--	84.9	--	--	1.5	--	--
*PIONEER 3352	24.7	23	23	91.4	92	117	1.6	1	1
*AGRIPRO AP525	24.7	--	--	81.3	--	--	4.0	--	--
DAIRYLAND DX1014	24.7	--	--	53.1	--	--	1.5	--	--
SEEDTEC ST-7446	24.7	--	--	54.8	--	--	6.2	--	--
*MCCURDY 6660	24.7	--	--	77.2	--	--	1.6	--	--
CROW'S 442	24.7	--	--	51.5	--	--	0.0	--	--
*BECK'S 64XA	24.7	23	24	90.3	89	124	6.7	5	3
*LEADER SX574	24.8	--	--	84.6	--	--	1.5	--	--
CARGILL SX269	24.8	--	--	55.2	--	--	4.3	--	--
*CARGILL 6927	24.8	--	--	85.3	--	--	2.2	--	--
GLENN-GARNO 1007	24.8	23	23	66.8	83	110	0.8	3	3
*FUNK G-4485	25.0	--	--	78.3	--	--	0.8	--	--
*GREAT LAKES GL-590	25.0	--	--	92.6	--	--	0.7	--	--
COUNTRYMARK C660X	25.0	--	--	63.4	--	--	1.8	--	--
BECK'S 54XA	25.0	--	--	65.2	--	--	3.9	--	--
*ASGROW/O'S GOLD RX746	25.1	--	--	82.8	--	--	0.8	--	--
TERRA TR1110	25.1	--	--	62.2	--	--	0.7	--	--
DAIRYLAND DX1107	25.1	23	23	59.7	61	93	2.1	2	3
PAYCO SX872	25.2	23	23	68.5	81	106	3.1	3	4
GOLDEN HARVEST H-2525	25.2	--	--	47.5	--	--	0.0	--	--
FUNK G-4425	25.3	--	--	43.6	--	--	0.8	--	--
KING K598	25.4	--	--	70.2	--	--	0.8	--	--
RENK RK803	25.5	--	--	72.7	--	--	2.3	--	--

(continued below)

TABLE 04 (CONTINUED)

SOUTHERN MICHIGAN  
Kalamazoo County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
AVERAGE	24.3	22	23	65.5	75	103	2.7	3	3
RANGE	20.9	20	21	40.6	50	77	0.0	1	1
	28.6	25	25	94.5	96	124	10.7	8	5
LEAST SIGNIFICANT DIFFERENCE	1.9	1.1	0.8	9.6	7	6	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 4	May 6	May 3
HARVESTED	October 27	October 16	October 30
SOIL TYPE	Kalamazoo loam	Kalamazoo loam	Kalamazoo loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,800	21,500	22,000
ROWS	30"	30"	30"
FERTILIZER	137-48-24	116-64-32	112-48-24
SOIL TEST: pH	5.9	6.2	5.7
P	218(very high)	158(very high)	161(very high)
K	364(very high)	203(medium)	286(high)

FARM COOPERATOR: Richard Van Vrancken, Climax

COUNTY AGRICULTURAL AGENT: Maurice Kaercher, Kalamazoo



TABLE 04 (CONTINUED)

SOUTHERN MICHIGAN  
Kalamazoo County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
*GLENN-GARNO 1010	25.5	--	--	75.5	--	--	2.3	--	--
*GREAT LAKES GL-582	25.7	23	--	88.4	93	--	2.2	2	--
*PIONEER 3379	25.7	--	--	75.7	--	--	3.0	--	--
*GOLDEN HARVEST EX480	25.8	--	--	90.7	--	--	0.8	--	--
AGRIPRO AP510	25.9	--	--	53.7	--	--	1.6	--	--
ANDERSONS PSX107	25.9	24	24	69.4	70	100	3.1	4	3
TERRA TR1120	26.0	--	--	48.2	--	--	1.6	--	--
*DAIRYLAND DX1015	26.1	24	--	83.3	78	--	1.6	2	--
*KING K647	26.2	24	--	79.8	83	--	2.3	2	--
TERRA TR1060	26.3	24	--	60.9	66	--	0.0	1	--
AMCORN PSX9012	26.3	--	--	52.4	--	--	0.0	--	--
*RENK RK76	26.5	24	--	94.3	82	--	1.6	2	--
BECK'S EX0095	26.6	--	--	70.1	--	--	0.7	--	--
*JACQUES 7820	26.7	--	--	79.5	--	--	3.8	--	--
CARGILL 6227	27.1	--	--	60.5	--	--	1.5	--	--
*ASGROW/O'S GOLD RX759	27.2	--	--	84.5	--	--	1.9	--	--
*GOLDEN HARVEST H-2532	27.2	--	--	85.0	--	--	3.0	--	--
DAIRYLAND DX1017	27.6	25	25	71.5	77	107	0.8	1	1
*GOLDEN HARVEST H-2572	27.8	25	25	82.3	90	115	2.1	3	2
*GLENN-GARNO 1012	28.6	25	--	84.4	90	--	0.9	2	--

(continued top right)

TABLE 05

SOUTHERN MICHIGAN  
Cass County Trial--Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
PAYCO SX687	19.8	--	--	122.9	--	--	2.2	--	--
DAIRYLAND DX1104	20.4	--	--	139.3	--	--	5.3	--	--
DEKALB-PFIZER DK524	20.6	22	22	178.0	169	176	0.7	1	1
GLENN-GARNO 1003	20.6	21	--	130.9	147	--	1.5	2	--
MCCURDY 5750	20.8	--	--	170.8	--	--	3.7	--	--
DAIRYLAND DX1103	20.9	22	--	160.8	155	--	2.9	5	--
ANDERSONS PSX106	20.9	--	--	152.0	--	--	4.3	--	--
GLENN-GARNO 107A5X	20.9	--	--	121.9	--	--	7.1	--	--
RENK RK627	21.0	--	--	126.3	--	--	3.7	--	--
BETAGOLD HANNA	21.1	--	--	138.7	--	--	0.8	--	--
KING K5574	21.2	23	23	163.1	163	171	2.9	3	2
ASGROW/O'S GOLD RX578	21.3	23	--	158.8	160	--	0.0	1	--
ASGROW/O'S GOLD RX626	21.7	24	--	140.3	149	--	1.5	3	--
PAYCO SX872	21.7	--	--	159.8	--	--	6.2	--	--
DAIRYLAND DX1106	21.8	--	--	147.0	--	--	7.4	--	--
GLENN-GARNO 1008	21.8	--	--	162.7	--	--	1.4	--	--
JACQUES 7700	21.9	23	23	169.6	169	173	2.9	2	4
RENK RK64	21.9	--	--	160.6	--	--	2.2	--	--
AMCORN PSX9009	22.0	--	--	162.5	--	--	3.5	--	--
PIONEER 3475	22.1	23	23	152.0	168	179	0.8	0	0
KING K448	22.1	--	--	140.9	--	--	0.7	--	--
*GREAT LAKES GL-509	22.2	--	--	191.9	--	--	4.5	--	--
ASGROW/O'S GOLD RX759	22.2	--	--	159.1	--	--	2.8	--	--
MAUMEE VALLEY MV-762	22.2	23	23	154.1	162	161	3.0	3	2
GOLDEN HARVEST H-2465	22.2	23	23	160.1	159	168	2.9	3	3
DEKALB-PFIZER DK535	22.3	--	--	149.6	--	--	3.7	--	--
GREAT LAKES GL-482	22.3	--	--	162.9	--	--	0.0	--	--
CARGILL 6127	22.3	24	--	151.2	154	--	9.2	5	--
GARST 8555	22.3	23	--	164.1	169	--	3.6	4	--
*GLENN-GARNO EX107X	22.3	--	--	186.7	--	--	0.0	--	--
FUNK G-4425	22.4	--	--	178.1	--	--	2.2	--	--
ANDERSONS PSX107	22.4	25	25	170.2	170	169	4.2	2	2
*GLENN-GARNO 1007	22.4	24	24	186.7	180	180	7.5	4	3
PIONEER 3540	22.5	24	24	163.4	174	178	0.7	1	1
ANDERSONS PSX105	22.5	23	--	124.3	141	--	19.1	11	--
CROW'S 488	22.5	24	25	155.2	164	171	2.1	1	1
*GREAT LAKES GL-582	22.6	24	--	188.1	200	--	1.4	1	--
BETAGOLD MARIA	22.6	--	--	155.3	--	--	0.7	--	--
ANDERSONS PSX108	22.6	--	--	147.5	--	--	8.4	--	--
PAYCO 648	22.6	--	--	129.8	--	--	0.0	--	--

(continued next page)



TABLE 05 (CONTINUED)

SOUTHERN MICHIGAN  
Cass County Trial--Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
PAYCO 748	22.6	--	--	171.8	--	--	0.0	--	--
HERITAGE GREEN MACHINE	22.7	--	--	169.0	--	--	0.0	--	--
DAIRYLAND DX1107	22.7	25	25	161.0	172	177	2.1	2	1
*NORTHROP KING N6873	22.8	--	--	179.9	--	--	0.7	--	--
*PIONEER 3374	22.8	--	--	182.3	--	--	0.0	--	--
GREAT LAKES GL-566	22.9	--	--	160.0	--	--	0.7	--	--
*MAUMEE VALLEY MV-888	23.0	25	--	183.0	179	--	0.7	0	--
*CARGILL SX269	23.3	--	--	185.9	--	--	2.2	--	--
*AGRIPRO AP525	23.4	--	--	181.4	--	--	2.3	--	--
RUPP XR1739	23.4	--	--	176.2	--	--	2.9	--	--
MAUMEE VALLEY MV-812	23.5	--	--	176.9	--	--	1.4	--	--
PRAIRIE STREAM M4400	23.5	25	--	151.0	167	--	1.5	1	--
GOLDEN HARVEST EX480	23.5	--	--	177.7	--	--	4.5	--	--
*DEKALB-PFIZER DK572	23.6	24	--	195.5	185	--	2.9	3	--
*BECK'S 65X	23.7	25	26	196.9	191	201	2.1	2	1
PARKER 400	23.7	25	--	161.1	169	--	5.8	4	--
PRAIRIE STREAM SX502	23.8	26	--	173.7	171	--	1.4	1	--
MCCURDY 6606	23.8	--	--	172.8	--	--	1.5	--	--
GLENN-GARNO 1010	23.8	--	--	160.4	--	--	1.5	--	--
MAUMEE VALLEY MV-851	23.9	24	24	157.2	161	164	3.0	3	2
CROW'S 482	23.9	25	--	131.6	153	--	2.9	4	--
*AMCORN PSX9012	23.9	--	--	189.6	--	--	0.0	--	--
*PIONEER 3379	24.0	--	--	183.3	--	--	1.4	--	--
*GOLDEN HARVEST H-2532	24.0	--	--	210.9	--	--	2.9	--	--
BECK'S 64XA	24.0	26	--	163.9	184	--	2.8	2	--
*CALLAHAN 20041X	24.0	--	--	187.8	--	--	1.4	--	--
AGRIPRO AP595	24.1	--	--	153.1	--	--	2.1	--	--
DAIRYLAND DX1014	24.1	--	--	142.4	--	--	1.5	--	--
BECK'S EX0095	24.1	--	--	174.8	--	--	2.8	--	--
CALLAHAN 20775X	24.1	--	--	148.9	--	--	0.0	--	--
ASGROW/O'S GOLD RX746	24.2	--	--	145.3	--	--	0.9	--	--
CARGILL 6927	24.2	--	--	160.2	--	--	2.7	--	--
DAIRYLAND DX1017	24.2	26	--	165.1	178	--	0.0	1	--
*FUNK G-4513	24.3	--	--	194.1	--	--	0.0	--	--
NORTHROP KING PX9540	24.3	25	25	148.5	170	186	3.1	3	2
*PIONEER 3352	24.3	25	25	184.9	194	192	0.0	0	0
KING K647	24.3	26	26	162.3	165	175	0.7	1	1
SUPER CROST 4386	24.4	--	--	151.1	--	--	0.0	--	--
GOLDEN HARVEST H-2525	24.5	--	--	175.9	--	--	6.5	--	--
AGRIPRO AP510	24.6	26	26	170.4	180	192	3.1	2	2

(continued below)

TABLE 06

SOUTHERN MICHIGAN  
Cass County Trial--Muck Soil  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
CARGILL 3027	20.8	--	--	120.4	--	--	3.8	--	--
AGRIPRO AP175	21.0	--	--	93.3	--	--	0.7	--	--
DAIRYLAND DX1095	21.1	20	--	124.0	124	--	2.2	3	--
PIONEER 3751	21.2	--	--	119.4	--	--	4.7	--	--
CARGILL 859	21.7	--	--	97.8	--	--	5.9	--	--
CARGILL 3327	21.8	--	--	113.2	--	--	0.8	--	--
PIONEER 3737	22.1	21	21	114.3	130	127	4.8	3	3
JACQUES 4900	22.2	--	--	116.0	--	--	6.7	--	--
ASGROW/O'S GOLD RX498	22.6	22	--	119.3	122	--	0.0	0	--
*FUNK G-4309	22.7	--	--	146.1	--	--	1.4	--	--
MAUMEE VALLEY MV-630	23.0	22	22	110.4	135	127	2.9	2	1
*GREAT LAKES GL-482	23.2	--	--	151.8	--	--	0.0	--	--
DAIRYLAND DX1104	23.5	--	--	139.2	--	--	3.8	--	--
PAYCO SX687	23.7	--	--	104.2	--	--	3.3	--	--
*GLENN-GARNO 1003	23.8	23	--	150.4	149	--	1.5	1	--
MAUMEE VALLEY MV-611	23.9	22	22	102.6	120	117	2.9	1	1
CARGILL 4227	23.9	--	--	128.9	--	--	2.1	--	--
CROW'S 210	24.0	--	--	118.3	--	--	0.0	--	--
*PAYCO 648	24.0	--	--	158.5	--	--	5.8	--	--
*DAIRYLAND DX1106	24.2	--	--	164.6	--	--	0.7	--	--
ANDERSONS PSX106	24.2	--	--	131.0	--	--	0.0	--	--
DEKALB-PFIZER DK524	24.4	24	23	128.8	147	137	0.0	0	2
PIONEER 3585	24.4	--	--	139.0	--	--	0.0	--	--
KING K448	24.4	--	--	128.6	--	--	3.6	--	--
CALLAHAN 19929X	24.5	--	--	143.0	--	--	2.1	--	--
DAIRYLAND DX1103	24.8	23	23	135.6	140	135	0.8	1	1
CARGILL 5157	24.9	--	--	121.5	--	--	0.7	--	--
GLENN-GARNO EX107X	24.9	--	--	143.5	--	--	1.5	--	--
DEKALB-PFIZER DK535	25.0	--	--	111.1	--	--	0.0	--	--
*PIONEER 3540	25.1	24	23	147.6	161	151	0.7	0	1
*PIONEER 3475	25.1	23	23	146.2	158	150	0.7	1	1
NORTHROP KING S4590	25.2	--	--	104.7	--	--	0.0	--	--
ASGROW/O'S GOLD RX626	25.3	24	--	139.7	132	--	0.0	0	--
*ASGROW/O'S GOLD RX578	25.4	24	--	146.8	152	--	0.0	1	--
GLENN-GARNO 107A5X	25.4	--	--	93.5	--	--	0.0	--	--
*GREAT LAKES GL-509	25.7	24	--	152.7	159	--	0.7	2	--
*AGRIPRO 680	25.7	--	--	158.6	--	--	1.5	--	--
*PAYCO 748	25.7	--	--	148.9	--	--	0.0	--	--
GLENN-GARNO 1007	26.0	24	--	141.6	151	--	0.0	1	--
AMCORN PSX3333	26.4	--	--	136.5	--	--	0.0	--	--

(continued below)



TABLE 05 (CONTINUED) SOUTHERN MICHIGAN ZONE 1  
Cass County Trial--Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2	3	1988	2	3	1988	2	3
		YR	YR		YR	YR		YR	
CARGILL 6227	24.6	--	--	172.3	--	--	0.7	--	--
*RENK RK76	24.6	--	--	180.9	--	--	1.5	--	--
BECK'S 54XA	24.6	--	--	163.6	--	--	0.0	--	--
PARKER 63	24.7	26	--	171.5	177	--	0.0	1	--
*JACQUES 7820	24.9	--	--	194.3	--	--	1.5	--	--
-----									
*DAIRYLAND DX1015	24.9	26	--	181.0	177	--	1.4	1	--
GLENN-GARNO 10747X	24.9	--	--	157.0	--	--	0.0	--	--
GLENN-GARNO 1012	25.2	27	--	174.0	176	--	1.4	2	--
NORTHRUP KING 77050	25.4	27	27	172.0	184	196	0.7	1	2
*CARGILL 7993	25.4	--	--	194.0	--	--	0.7	--	--
-----									
*BECK'S 63X	25.4	26	26	201.9	193	196	1.5	1	1
AGRIPRO 710A	25.5	27	--	171.9	187	--	6.6	3	--
KING K598	25.7	--	--	150.2	--	--	3.9	--	--
*GOLDEN HARVEST H-2572	25.8	27	--	185.7	193	--	1.4	2	--
*SUPER CROST 4877	26.2	--	--	186.5	--	--	4.5	--	--
-----									
AVERAGE	23.1	25	24	163.7	171	179	2.5	2	2
-----									
RANGE	19.8	21	22	121.9	141	161	0.0	0	0
	T0	T0	T0	T0	T0	T0	T0	T0	T0
	26.2	27	27	210.9	200	201	19.1	11	4
-----									
LEAST SIGNIFICANT DIFFERENCE	1.5	1.1	1.0	15.9	10	8	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	April 30	May 6	May 2
HARVESTED	October 21	September 23	October 8
SOIL TYPE	Oshtemo sandy loam	Oshtemo sandy loam	Oshtemo sandy loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,500	22,600	22,200
ROWS	30"	30"	30"
FERTILIZER	139-40-128	212-40-70	248-44-131
SOIL TEST: pH	7.0	6.7	6.8
P	294 (very high)	217 (very high)	264 (very high)
K	408 (very high)	265 (high)	392 (very high)
IRRIGATION	8 inches	6 inches	5 inches

FARM COOPERATOR: Dave and Melvin Cripe, Cassopolis

COUNTY AGRICULTURAL AGENT: Wayne Nothem, Cassopolis

TABLE 06 (CONTINUED) SOUTHERN MICHIGAN ZONE 1  
Cass County Trial--Muck Soil  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2	3	1988	2	3	1988	2	3
		YR	YR		YR	YR		YR	
MAUMEE VALLEY MV-762	26.5	25	25	124.6	144	135	0.0	0	0
SELECT 3720	26.5	--	--	133.6	--	--	0.0	--	--
FUNK G-4425	26.6	--	--	133.7	--	--	2.3	--	--
KING K5574	26.7	25	25	140.2	141	134	0.0	0	0
GLENN-GARNO 1010	26.9	--	--	113.2	--	--	0.0	--	--
-----									
PARKER 52A	27.0	--	--	118.9	--	--	0.0	--	--
GOLDEN HARVEST H-2465	27.1	25	24	134.7	156	146	0.7	1	1
GLENN-GARNO 1008	27.2	--	--	131.1	--	--	0.7	--	--
PAYCO SX872	27.3	25	25	135.7	151	141	0.0	1	1
*GLENN-GARNO 10747X	27.3	--	--	151.9	--	--	0.0	--	--
-----									
ANDERSONS PSX103	27.4	--	--	116.8	--	--	1.5	--	--
GREAT LAKES GL-582	27.5	--	--	143.1	--	--	0.7	--	--
MAUMEE VALLEY MV-851	27.5	26	26	132.6	146	135	0.7	1	1
*MAUMEE VALLEY MV-812	27.5	--	--	156.0	--	--	0.0	--	--
*KING K598	27.7	--	--	151.6	--	--	0.8	--	--
-----									
SELECT 4144	28.2	--	--	138.0	--	--	0.0	--	--
DAIRYLAND DX1107	28.3	26	25	117.9	123	123	0.7	2	2
BECK'S 53X	28.5	--	--	141.8	--	--	0.0	--	--
*GOLDEN HARVEST H-2525	28.7	--	--	163.8	--	--	0.0	--	--
*SELECT 5015	28.9	--	--	167.4	--	--	0.0	--	--
-----									
SELECT 5040	29.4	--	--	120.8	--	--	0.8	--	--
AGRIPRO AP525	29.5	--	--	130.8	--	--	1.4	--	--
CROW'S 488	29.6	--	--	135.1	--	--	0.7	--	--
SELECT 4972	29.9	--	--	127.1	--	--	0.7	--	--
CALLAHAN 20775X	30.0	--	--	127.2	--	--	0.7	--	--
-----									
*KING K647	30.8	29	28	146.1	135	128	0.0	1	2
SELECT 5188	30.9	--	--	133.8	--	--	0.0	--	--
*SELECT 4988	31.1	--	--	151.9	--	--	0.7	--	--
*NORTHRUP KING N6348	31.2	--	--	154.2	--	--	1.5	--	--
SELECT 4905	31.5	--	--	137.1	--	--	0.7	--	--
-----									
BECK'S 62XA	32.5	--	--	129.4	--	--	0.0	--	--

(continued next page)



TABLE 06 (CONTINUED) SOUTHERN MICHIGAN ZONE 1  
Cass County Trial--Muck Soil  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
AVERAGE	26.0	24	24	130.6	142	135	1.1	1	1
RANGE	20.8 TO 32.5	20 TO 29	21 TO 28	93.3 TO 167.4	120 TO 161	117 TO 151	0.0 TO 6.7	0 TO 3	0 TO 3
LEAST SIGNIFICANT DIFFERENCE	1.8	1.2	1.0	14.8	9	8	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 14	May 27	May 29
HARVESTED	October 27	October 17	October 30
SOIL TYPE	Palms Muck	Palms Muck	Palms Muck
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,300	22,200	22,000
ROWS	30"	30"	30"
FERTILIZER	18-62-0	20-68-72	100-76-90
SOIL TEST: pH	5.8	5.8	5.7
P	107 (high)	104 (high)	98 (high)
K	596 (very high)	345 (very high)	635 (very high)

FARM COOPERATOR: Warren Wooden, Cassopolis

COUNTY AGRICULTURAL AGENT: Wayne Hothem, Cassopolis

TABLE 07 (CONTINUED) SOUTH CENTRAL MICHIGAN ZONE 2  
Kent County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GLENN-GARNO 1003	22.9	21	--	117.9	132	--	1.5	2	--
GLENN-GARNO 107A5X	22.9	--	--	78.7	--	--	7.2	--	--
ASGROW/O'S GOLD RX626	23.0	22	--	93.5	109	--	1.7	1	--
*KING K5574	23.0	22	23	144.0	131	130	9.9	5	4
RENK RK64	23.0	--	--	105.3	--	--	7.8	--	--
*AMCORN PSX5555	23.0	--	--	122.0	--	--	2.8	--	--
*SUPER CROST 2989	23.1	22	23	133.1	138	135	4.3	3	3
*PIONEER 3585	23.1	--	--	137.2	--	--	6.9	--	--
KING K448	23.1	--	--	91.6	--	--	2.2	--	--
CARGILL 5927	23.1	--	--	116.3	--	--	4.6	--	--
CROW'S 210	23.2	--	--	115.3	--	--	5.8	--	--
FUNK G-4425	23.3	--	--	106.9	--	--	7.0	--	--
AGRIPRO 680	23.3	22	--	116.3	130	--	10.9	7	--
GREAT LAKES GL-579	23.4	22	23	120.1	134	136	10.7	6	4
GOLDEN HARVEST H-2404	23.5	--	--	100.3	--	--	0.7	--	--
AMCORN PSX9009	23.5	--	--	83.3	--	--	19.7	--	--
*FUNK G-4326	23.6	--	--	144.5	--	--	3.5	--	--
MAUMEE VALLEY MV-630	23.6	--	--	91.2	--	--	1.5	--	--
DAIRYLAND DX1107	23.6	22	24	90.1	105	106	20.1	11	7
*ANDERSONS PSX103	23.6	--	--	122.7	--	--	9.2	--	--
GLENN-GARNO 1007	23.6	22	23	114.0	128	127	12.0	6	4
*GREAT LAKES GL-509	23.7	22	--	139.4	143	--	4.9	5	--
ASGROW/O'S GOLD RX578	23.8	22	--	90.9	118	--	2.1	2	--
CARGILL 6127	23.8	--	--	93.4	--	--	12.5	--	--
JACQUES 7700	23.9	23	23	106.4	108	118	12.7	7	5
*DEKALB-PFIZER DK547	24.0	--	--	124.7	--	--	1.4	--	--
DAIRYLAND DX1106	24.4	--	--	115.3	--	--	1.5	--	--
*MAUMEE VALLEY MV-762	24.5	--	--	138.2	--	--	4.4	--	--
SUPER CROST 2510	24.7	--	--	112.8	--	--	2.2	--	--
*GOLDEN HARVEST H-2438	24.7	--	--	125.2	--	--	0.0	--	--
*GLENN-GARNO 10747X	24.8	--	--	140.4	--	--	1.4	--	--
*GREAT LAKES GL-582	25.2	23	--	147.1	138	--	0.0	0	--
*AGRIPRO AP525	25.2	--	--	132.5	--	--	6.6	--	--
*CARGILL 6227	25.3	--	--	129.3	--	--	4.5	--	--
*GLENN-GARNO 1010	25.9	--	--	133.7	--	--	0.7	--	--
*MAUMEE VALLEY MV-812	26.2	--	--	122.5	--	--	1.5	--	--
*GLENN-GARNO 1012	27.8	--	--	144.8	--	--	0.8	--	--

(continued below)



TABLE 07

SOUTH CENTRAL MICHIGAN  
Kent County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
DAIRYLAND DX1095	19.8	19	--	111.6	113	--	3.5	3	--
ASGROW/O'S GOLD RX406	20.3	--	--	82.5	--	--	7.5	--	--
PIONEER 3737	20.4	20	21	81.3	105	111	1.0	3	3
GRIES X305	20.5	--	--	90.2	--	--	2.9	--	--
MAUMEE VALLEY MV-509	20.5	--	--	74.4	--	--	3.8	--	--
DEKALB-PFIZER DK524	20.6	20	22	90.6	106	108	7.2	5	3
DAIRYLAND DX1194	20.8	--	--	84.5	--	--	5.6	--	--
PAYCO SX687	20.8	--	--	107.6	--	--	7.0	--	--
DAIRYLAND DX1101	21.0	--	--	78.0	--	--	5.5	--	--
DAIRYLAND DX1096	21.0	20	--	81.2	93	--	3.3	3	--
AGRIPRO AP175	21.2	--	--	78.5	--	--	1.4	--	--
GOLDEN HARVEST H-2410	21.3	--	--	107.6	--	--	5.8	--	--
KING K416	21.5	20	21	100.3	91	101	1.4	2	2
KING K4422	21.6	20	21	77.9	101	109	1.5	1	1
ANDERSONS PSX99	21.6	--	--	76.3	--	--	4.4	--	--
NORTHROP KING N4350	21.7	--	--	108.4	King	--	0.0	--	--
RENK RK627	21.7	--	--	95.8	--	--	2.9	--	--
*PIONEER 3751	21.8	--	--	131.0	--	--	0.0	--	--
*BETAGOLD KARLA	21.8	--	--	128.7	--	--	1.4	--	--
GRIES X550	21.9	--	--	111.6	--	--	1.4	--	--
*PAYCO 648	21.9	--	--	121.5	--	--	0.7	--	--
MAUMEE VALLEY MV-611	22.2	--	--	97.0	--	--	0.0	--	--
GLENN-GARNO EX107X	22.2	--	--	97.0	--	--	8.3	--	--
WOLVERINE W156	22.3	21	22	104.9	99	108	3.6	2	2
NORTHROP KING PX9292	22.3	21	--	78.3	108	--	0.8	1	--
*PIONEER 3475	22.3	--	--	121.4	--	--	0.0	--	--
ASGROW/O'S GOLD RX498	22.3	21	--	86.0	94	--	0.7	1	--
JACQUES 4900	22.4	21	--	93.8	99	--	3.5	4	--
GREAT LAKES GL-482	22.4	21	--	115.1	126	--	5.7	5	--
*DEKALB-PFIZER DK535	22.5	--	--	135.3	--	--	4.8	--	--
GRIES X580	22.6	22	--	90.3	94	--	16.7	10	--
WOLVERINE W163	22.6	21	22	86.1	113	107	2.0	3	2
*GLENN-GARNO 1008	22.6	--	--	125.5	--	--	8.7	--	--
PIONEER 3704	22.7	21	21	115.6	128	124	0.7	1	1
*DAIRYLAND DX1103	22.7	21	--	125.3	110	--	1.4	2	--
GREAT LAKES GL-566	22.8	--	--	118.5	--	--	4.4	--	--
NORTHROP KING N4545	22.8	--	--	119.2	--	--	1.5	--	--
AGRIPRO AP364	22.9	--	--	89.1	--	--	1.4	--	--
CARGILL 4227	22.9	--	--	110.5	--	--	2.1	--	--
*DAIRYLAND DX1104	22.9	--	--	122.7	--	--	0.7	--	--

(continued top right)

TABLE 07 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Kent County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
AVERAGE	22.9	21	22	108.8	115	117	4.5	4	3
RANGE	19.8	19	21	74.4	91	101	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.8	23	24	147.1	143	136	20.1	11	7
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	0.9	12.1	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 4	May 4	May 9
HARVESTED	October 20	October 19	October 31
SOIL TYPE	Belville loam	Belville loam	Belville loam
PREVIOUS CROP	Alfalfa	Corn	Corn
POPULATION	20,900	19,500	19,600
ROWS	30"	30"	30"
FERTILIZER	33-31-0 + manure	195-41-60	116-87-0 + manure
SOIL TEST: pH	6.7	6.7	6.6
P	140 (very high)	85 (high)	105 (high)
K	400 (very high)	236 (high)	261 (high)

FARM COOPERATOR: Gerald Kayser, Caledonia

COUNTY AGRICULTURAL AGENT: Lyman Baker, Grand Rapids



TABLE 08

SOUTH CENTRAL MICHIGAN  
Ottawa County Trial  
ZONE 2  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2	3	1988	2	3	1988	2	3
		YR	YR		YR	YR		YR	
BETAGOLD KRISTINE	20.6	21	22	31.3	61	77	0.8	2	3
AGRIPRO AP175	21.7	--	--	30.7	--	--	7.4	--	--
GRIES X305	21.8	--	--	42.8	--	--	5.3	--	--
COUNTRYMARK C343X	22.0	21	--	33.7	65	--	0.0	2	--
DAIRYLAND DX1095	22.6	21	--	33.2	61	--	5.1	6	--
ASGROW/O'S GOLD RX406	23.7	--	--	40.0	--	--	15.6	--	--
PAYCO 448	23.7	--	--	35.4	--	--	1.6	--	--
PIONEER 3772	24.4	--	--	34.8	--	--	1.9	--	--
GLENN-GARNO 1008	24.5	--	--	42.1	--	--	11.9	--	--
*GREAT LAKES GL-482	24.6	23	--	55.5	86	--	0.7	2	--
NORTHROP KING N4545	24.6	--	--	36.8	--	--	1.7	--	--
PIONEER 3585	24.6	--	--	34.8	--	--	1.6	--	--
PIONEER 3744	24.8	22	23	34.9	83	104	0.8	4	4
DAIRYLAND DX1096	24.9	23	23	40.7	75	92	3.5	5	5
GOLDEN HARVEST H-2344	25.0	22	22	43.3	70	84	6.1	6	5
DEKALB-PFIZER DK524	25.1	23	24	50.3	89	106	3.1	5	5
WOLVERINE W156	25.1	23	23	40.7	76	95	3.1	6	6
*CARGILL 4227	25.1	--	--	55.1	--	--	2.3	--	--
GRIES X550	25.2	--	--	32.3	--	--	1.7	--	--
AGRIPRO AP364	25.2	--	--	38.5	--	--	9.8	--	--
RENK RK627	25.2	--	--	49.9	--	--	2.3	--	--
DEKALB-PFIZER DK535	25.3	--	--	39.5	--	--	13.8	--	--
KING K448	25.3	--	--	33.5	--	--	0.8	--	--
BETAGOLD KARLA	25.3	--	--	43.2	--	--	0.0	--	--
PIONEER 3704	25.5	23	23	50.2	84	93	0.0	3	3
KING K416	25.6	23	23	37.0	70	91	8.5	7	5
PAYCO SX687	25.6	--	--	36.1	--	--	0.0	--	--
AMCORN PSX5555	25.7	--	--	34.8	--	--	1.6	--	--
DAIRYLAND DX1101	25.8	--	--	34.1	--	--	0.0	--	--
KING K4422	26.0	23	23	39.2	73	79	3.1	5	4
*FUNK G-4425	26.1	--	--	59.8	--	--	8.4	--	--
*JACQUES 6770	26.1	--	--	77.3	--	--	3.1	--	--
WOLVERINE W163	26.1	--	--	48.7	--	--	0.0	--	--
*PIONEER 3475	26.1	--	--	57.5	--	--	0.0	--	--
*AGRIPRO 680	26.1	24	--	70.4	87	--	4.4	4	--
CARGILL 5157	26.1	24	--	42.7	78	--	3.1	3	--
GLENN-GARNO EX107X	26.1	--	--	45.4	--	--	7.6	--	--
*DEKALB-PFIZER DK547	26.3	--	--	70.4	--	--	14.5	--	--
SUPER CROST 2510	26.4	--	--	41.1	--	--	2.4	--	--
*GRIES X580	26.4	25	--	53.4	71	--	1.5	4	--

(continued below)

TABLE 08 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Ottawa County Trial  
ZONE 2  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2	3	1988	2	3	1988	2	3
		YR	YR		YR	YR		YR	
AVERAGE	26.5	24	24	46.2	78	94	2.9	4	4
RANGE	20.6	21	22	30.7	61	77	0.0	2	3
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	32.2	26	25	77.3	104	114	15.6	7	6
LEAST SIGNIFICANT DIFFERENCE	2.0	1.4	1.0	7.0	6	5	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 4	May 8	May 7
HARVESTED	October 20	October 19	October 31
SOIL TYPE	Gilford & Sibewa loam	Gilford & Sibewa loam	Gilford & Sibewa loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,600	20,900	21,100
ROWS	30"	30"	30"
FERTILIZER	112-52-52	112-52-52	109-36-36
SOIL TEST: pH	6.5	6.7	6.1
P	266(very high)	377(very high)	173(very high)
K	410(very high)	490(very high)	345(very high)

FARM COOPERATOR: Gerald Geurink, Attendale

COUNTY AGRICULTURAL AGENT: Ira Krupp, Grand Haven



TABLE 08 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Ottawa County Trial

ZONE 2

ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE		BUSHEL PER ACRE			% STALK LODGING			
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GREAT LAKES GL-579	26.4	25	25	50.2	86	99	1.6	3	3
*GLENN-GARNO 1010	26.4	--	--	55.4	--	--	2.4	--	--
*ASGROW/O'S GOLD RX578	26.6	24	--	68.0	93	--	4.8	6	--
DAIRYLAND DX1106	26.7	--	--	43.1	--	--	2.5	--	--
GLENN-GARNO 1007	26.7	25	25	52.1	86	99	0.0	3	4
DAIRYLAND DX1194	26.8	--	--	41.9	--	--	8.2	--	--
GOLDEN HARVEST H-2343	26.8	24	--	41.2	74	--	1.6	4	--
CARGILL 6127	27.0	--	--	50.4	--	--	1.6	--	--
RENK RK64	27.1	--	--	47.9	--	--	0.7	--	--
FUNK G-4326	27.4	--	--	46.5	--	--	3.9	--	--
SUPER CROST 2989	27.4	25	25	40.9	82	100	0.0	4	4
ASGROW/O'S GOLD RX626	27.4	25	--	50.3	67	--	1.5	2	--
SEEDX 995	27.4	--	--	32.4	--	--	1.7	--	--
ANDERSONS PSX99	27.7	--	--	32.5	--	--	9.8	--	--
*NORTHROP KING S5340	27.8	25	25	64.4	100	113	1.5	3	4
*JACQUES 7700	27.9	25	25	75.3	104	114	1.5	2	3
*DAIRYLAND DX1107	27.9	--	--	65.3	--	--	1.4	--	--
GLENN-GARNO 107A5X	27.9	--	--	40.6	--	--	0.8	--	--
GREAT LAKES GL-582	28.0	--	--	53.1	--	--	0.0	--	--
KING K5574	28.0	25	25	48.4	81	93	1.6	3	3
GLENN-GARNO 1003	28.0	25	--	43.6	80	--	3.8	4	--
GOLDEN HARVEST H-2465	28.2	26	--	42.9	68	--	3.8	4	--
CROW'S 442	28.4	--	--	42.5	--	--	0.0	--	--
DAIRYLAND DX1103	28.5	25	25	46.3	70	82	1.6	2	3
DAIRYLAND DX1104	28.5	--	--	45.6	--	--	1.5	--	--
AMCORN PSX9009	28.6	--	--	43.8	--	--	0.7	--	--
SEEDX 1060	29.1	--	--	42.5	--	--	0.0	--	--
COUNTRYMARK C565X	29.1	26	25	42.2	79	86	1.7	3	4
*GLENN-GARNO 10747X	29.1	--	--	74.3	--	--	0.0	--	--
COUNTRYMARK C660X	29.2	--	--	39.6	--	--	0.8	--	--
*SUPER CROST EXP.8110	29.9	--	--	60.4	--	--	0.8	--	--
ANDERSONS PSX100	30.0	--	--	39.0	--	--	0.8	--	--
*GLENN-GARNO 1012	30.0	--	--	66.4	--	--	0.0	--	--
*AGRIPRO AP525	30.6	--	--	65.1	--	--	1.4	--	--
SEEDX 1085	31.5	--	--	39.8	--	--	0.0	--	--
*CARGILL SX269	32.2	--	--	72.4	--	--	0.0	--	--

(continued top right)

TABLE 09

SOUTH CENTRAL MICHIGAN  
Ingham County Trial - Grain

ZONE 2

ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE		BUSHEL PER ACRE			% STALK LODGING			
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GLENN-GARNO 931X	23.0	--	--	117.1	--	--	0.0	--	--
FUNK G-4309	23.2	--	--	125.5	--	--	0.0	--	--
PIONEER 3737	23.3	21	21	111.3	123	129	0.0	6	4
COUNTRYMARK C343X	23.3	21	--	111.9	124	--	0.0	13	--
RENK RK19	24.1	22	22	99.2	117	118	2.4	5	4
FUNK G-4299	24.2	--	--	116.2	--	--	0.7	--	--
GRIES X305	24.3	--	--	99.5	--	--	0.0	--	--
CARGILL 4227	24.3	--	--	115.5	--	--	0.0	--	--
CROW'S 175	24.3	--	--	81.3	--	--	0.0	--	--
CROW'S 195	24.6	--	--	118.6	--	--	0.0	--	--
GLENN-GARNO 107A5X	24.6	--	--	100.1	--	--	1.0	--	--
PIONEER 3704	24.7	23	23	118.9	130	136	0.8	0	0
*RUPP XR1527	24.7	23	--	147.1	149	--	0.0	1	--
MAUMEE VALLEY MV-630	24.9	24	23	124.3	139	141	0.0	2	2
GARST 8708	24.9	--	--	128.4	--	--	0.0	--	--
PIONEER 3751	25.0	--	--	124.5	--	--	0.7	--	--
RUPP XR1557	25.0	--	--	119.7	--	--	0.0	--	--
*PIONEER 3475	25.2	--	--	140.2	--	--	1.6	--	--
BETAGOLD HANNA	25.2	--	--	125.8	--	--	0.0	--	--
*DAIRYLAND DX1106	25.2	--	--	133.8	--	--	0.0	--	--
*GREAT LAKES GL-482	25.5	23	--	136.5	150	--	0.0	3	--
RENK R148	25.5	24	24	85.2	107	120	1.5	3	2
JACQUES 5700	25.6	--	--	120.2	--	--	0.0	--	--
DAIRYLAND DX1103	25.6	24	--	118.4	127	--	0.0	1	--
DEKALB-PFIZER DK524	25.7	23	23	116.4	126	133	0.7	4	4
*GLENN-GARNO 1003	25.7	24	--	141.9	151	--	1.5	2	--
ASGROW/O'S GOLD RX406	25.8	--	--	117.6	--	--	0.9	--	--
BETAGOLD HEIDI	25.8	23	--	102.0	105	--	0.0	3	--
CARGILL 842	25.8	--	--	103.9	--	--	0.0	--	--
KING K4422	25.9	23	--	101.5	110	--	0.9	2	--
FUNK G-4326	26.0	--	--	114.7	--	--	0.8	--	--
AGRIPRO AP364	26.0	--	--	104.4	--	--	0.0	--	--
*NORTHROP KING N4545	26.2	--	--	135.0	--	--	0.0	--	--
ASGROW/O'S GOLD RX498	26.2	23	--	110.3	126	--	0.8	3	--
GOLDEN HARVEST H-2404	26.2	--	--	111.6	--	--	0.7	--	--
GRIES X550	26.4	--	--	109.8	--	--	0.0	--	--
DAIRYLAND DX1107	26.4	25	25	126.7	126	138	0.0	3	3
GOLDEN HARVEST H-2410	26.5	--	--	122.0	--	--	0.8	--	--
*CALLAHAN C754	26.5	24	25	133.6	132	143	1.5	2	2
DEKALB-PFIZER DK547	26.6	25	25	120.2	140	144	2.2	5	3

(continued next page)



TABLE 09 (CONTINUED)

SOUTH CENTRAL MICHIGAN  
Ingham County Trial - Grain  
ZONE 2  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 3		1988	2 3		1988	2 3	
		YR	YR		YR	YR		YR	
GRIES X580	26.6	25	--	129.1	141	--	1.4	3	--
*ASGROW/O'S GOLD RX578	26.6	25	--	133.7	138	--	1.5	3	--
*GLENN-GARNO 1010	26.7	--	--	138.1	--	--	0.0	--	--
*PIONEER 3585	26.8	--	--	140.6	--	--	0.0	--	--
BETAGOLD MARIA	26.8	--	--	125.5	--	--	0.0	--	--
*GLENN-GARNO 1008	26.8	--	--	140.2	--	--	2.2	--	--
*NORTHROP KING N6321	27.0	25	--	139.1	144	--	0.0	3	--
COUNTRYMARK C565X	27.0	26	25	118.2	133	136	1.5	3	2
GLENN-GARNO 1007	27.0	25	25	127.5	143	154	0.0	2	2
MAUMEE VALLEY MV-762	27.1	25	25	113.1	131	139	1.5	4	3
GOLDEN HARVEST H-2465	27.1	25	25	120.3	138	146	1.5	2	2
KING K448	27.2	--	--	120.7	--	--	0.0	--	--
ANDERSONS PSX106	27.2	--	--	120.0	--	--	2.5	--	--
AMCORN PSX5555	27.2	--	--	116.1	--	--	0.0	--	--
JACQUES 6770	27.3	--	--	118.8	--	--	0.0	--	--
GREAT LAKES GL-579	27.3	25	25	129.7	143	151	0.0	2	2
*ASGROW/O'S GOLD RX626	27.3	24	--	134.5	136	--	0.0	2	--
KING K416	27.3	23	22	98.3	122	131	1.4	4	2
AMCORN PSX9009	27.4	--	--	112.5	--	--	0.0	--	--
SUPER CROST 2989	27.5	25	25	125.9	135	144	0.7	4	4
*SUPER CROST EXP. 8110	27.5	--	--	145.1	--	--	0.0	--	--
RUPP XR1739	27.5	--	--	111.4	--	--	1.5	--	--
*KING K5574	27.6	25	25	133.1	148	151	0.7	2	2
*DEKALB-PFIZER DK535	27.7	--	--	133.8	--	--	0.0	--	--
DAIRYLAND DX1104	27.7	--	--	118.7	--	--	0.0	--	--
PRO-SEED 83096	27.8	--	--	104.1	--	--	0.8	--	--
*GOLDEN HARVEST H-2532	27.8	--	--	147.1	--	--	3.0	--	--
GLENN-GARNO EX107X	27.8	--	--	126.9	--	--	0.7	--	--
*CALLAHAN 19929X	27.8	--	--	133.4	--	--	0.0	--	--
DAIRYLAND DX1017	27.9	--	--	107.9	--	--	0.0	--	--
GLENN-GARNO 1012	28.0	--	--	130.2	--	--	0.0	--	--
*MAUMEE VALLEY MV-812	28.2	--	--	139.0	--	--	0.9	--	--
ANDERSONS PSX103	28.3	26	25	127.2	133	142	0.0	2	1
NORTHROP KING N6348	28.4	--	--	127.8	--	--	1.5	--	--
GOLDEN HARVEST H-2438	28.4	--	--	111.0	--	--	0.0	--	--
*CARGILL 5157	28.5	25	--	136.3	135	--	0.8	3	--
RENK RK64	28.5	26	25	122.5	141	149	0.8	0	0
CALLAHAN 20041X	28.6	--	--	129.9	--	--	0.0	--	--
CARGILL SX269	28.7	--	--	114.4	--	--	0.0	--	--
GLENN-GARNO 10747X	28.7	--	--	129.3	--	--	1.4	--	--

(continued below)

TABLE 10

SOUTH CENTRAL MICHIGAN  
Ingham County Trial--Silage  
ZONE 2  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1988	2 3		1988	2 3		1988	2 3	
YR		YR	YR		YR	YR		YR	
PIONEER 3737	45.9	45.5	43.6	12.3	12.8	13.5	5.5	5.7	5.8
COUNTRYMARK C343X	45.6	44.7	--	11.0	12.7	--	5.0	5.6	--
DEKALB-PFIZER DK524	44.8	39.5	37.6	10.8	14.7	16.1	4.8	5.6	5.9
CROW'S 175	44.7	--	--	11.6	--	--	5.2	--	--
KING K416	44.4	43.5	41.2	9.4	10.8	12.7	4.2	4.7	5.1
PIONEER 3751	44.0	--	--	12.3	--	--	5.4	--	--
CARGILL 4227	43.4	--	--	11.7	--	--	5.1	--	--
ASGROW/O'S GOLD R406	43.3	--	--	12.1	--	--	5.2	--	--
GREAT LAKES GL-482	42.6	40.4	--	13.2	13.9	--	5.6	5.6	--
NORTHROP KING N4545	42.4	--	--	12.3	--	--	5.2	--	--
PIONEER 3704	42.3	43.0	40.5	11.6	13.4	14.2	4.9	5.8	5.7
KING K448	41.9	--	--	13.2	--	--	5.5	--	--
DAIRYLAND DX1103	41.5	36.4	--	12.3	15.7	--	5.1	5.5	--
FUNK G-4234	41.2	--	--	11.0	--	--	4.5	--	--
GARST 8708	41.1	--	--	11.0	--	--	4.5	--	--
AGRIPRO AP364	41.0	--	--	9.0	--	--	3.7	--	--
MAUMEE VALLEY MV812	41.0	--	--	13.4	--	--	5.5	--	--
JACQUES 5700	40.8	--	--	14.0	--	--	5.7	--	--
GRIES X-305	40.5	--	--	7.5	--	--	3.0	--	--
RENK RK64	40.5	35.9	35.0	13.1	15.9	16.4	5.3	5.6	5.6
RENK RK19	40.3	39.1	37.8	11.3	13.1	13.8	4.6	5.1	5.2
CROW'S 195	39.9	--	--	10.2	--	--	4.1	--	--
KING K4422	39.8	40.8	--	12.5	13.7	--	5.0	5.6	--
MAUMEE VALLEY MV630	39.7	38.4	37.8	16.5	17.5	17.0	6.6	6.7	6.4
AMCORN PSX5555	39.7	--	--	14.3	--	--	5.7	--	--
DEKALB-PFIZER DK547	39.4	37.2	34.7	17.2	18.7	18.9	6.8	6.9	6.5
ASGROW/O'S GOLD RX498	39.4	37.2	--	10.8	13.2	--	4.3	4.9	--
GLENN-GARNO 1008	39.4	--	--	15.7	--	--	6.2	--	--
BETAGOLD HEIDI	39.3	37.3	--	12.9	16.9	--	5.1	6.2	--
CARGILL 842	39.3	--	--	11.6	--	--	4.6	--	--
GLENN-GARNO 931X	39.3	--	--	10.4	--	--	4.1	--	--
RUPP XR1557	39.2	--	--	11.7	--	--	4.6	--	--
GLENN-GARNO 10747X	39.2	--	--	13.1	--	--	5.1	--	--
NORTHROP KING S 5987WX	38.9	--	--	13.6	--	--	5.3	--	--
GOLDEN HARVEST H-2404	38.9	--	--	10.3	--	--	4.0	--	--
GOLDEN HARVEST H-2438	38.6	--	--	13.8	--	--	5.3	--	--
GLENN-GARNO 1010	38.5	--	--	17.1	--	--	6.6	--	--
GLENN-GARNO 107A5X	38.5	--	--	12.6	--	--	4.9	--	--
MAUMEE VALLEY MV762	38.4	36.2	35.1	17.5	19.0	19.7	6.7	6.8	6.8
RUPP XR1527	38.4	41.1	--	16.6	15.1	--	6.4	6.2	--

(continued below)



TABLE 09 (CONTINUED)

SOUTH CENTRAL MICHIGAN ZONE 2  
 Ingham County Trial - Grain  
 ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
MAUMEE VALLEY MV-888	28.8	26	--	118.8	138	--	0.0	3	--
COUNTRYMARK C660X	28.9	--	--	128.8	--	--	0.0	--	--
CALLAHAN 20775X	28.9	--	--	99.0	--	--	0.0	--	--
FUNK G-4234	29.0	--	--	92.4	--	--	0.0	--	--
GREAT LAKES GL-582	29.1	--	--	123.3	--	--	0.8	--	--
*RENK RK67	29.3	--	--	135.4	--	--	1.4	--	--
CARGILL 6127	29.4	--	--	96.9	--	--	0.0	--	--
*AGRIPRO AP525	29.6	--	--	134.5	--	--	0.0	--	--
DAIRYLAND DX1015	29.6	--	--	123.8	--	--	1.5	--	--
NORTHROP KING S5987WX	29.8	--	--	126.6	--	--	0.0	--	--
ANDERSONS PSX107	29.9	27	27	126.8	135	139	0.0	2	1
AGRIPRO 680	30.5	27	26	129.0	133	138	0.0	2	2
*AGRIPRO AP510	31.5	--	--	133.6	--	--	0.0	--	--
*AGRIPRO 710A	31.9	--	--	133.8	--	--	0.0	--	--
AVERAGE	26.7	24	24	120.8	133	139	0.5	3	2
RANGE	23.0	21	21	81.3	105	118	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	31.9	27	27	147.1	151	154	3.0	13	4
LEAST SIGNIFICANT DIFFERENCE	2.0	1.5	1.1	11.8	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 3	April 25	April 24
HARVESTED	October 6	October 3	October 11
SOIL TYPE	Capac loam	Capac loam	Capac loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,000	22,200	22,300
ROWS	36"	36"	36"
FERTILIZER	165-50-50	165-50-50	165-50-50
SOIL TEST: pH	6.1	6.4	5.9
P	160 (very high)	140 (very high)	186 (very high)
K	240 (high)	224 (high)	215 (high)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

TABLE 10 (CONTINUED)

SOUTH CENTRAL MICHIGAN ZONE 2  
 Ingham County Trial--Silage  
 ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			DRY WEIGHT		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
ANDERSONS RSX106	38.4	--	--	13.8	--	--	5.3	--	--
FUNK G-4326	38.3	--	--	13.8	--	--	5.3	--	--
ASGROW/O'S GOLD RX578	38.3	34.7	--	14.8	15.4	--	5.7	5.3	--
FUNK G-4299	38.2	--	--	13.2	--	--	5.1	--	--
PIONEER 3585	38.2	--	--	12.8	--	--	4.9	--	--
BETAGOLD HANNA	38.2	--	--	11.4	--	--	4.4	--	--
CARGILL 5157	38.2	36.2	--	13.1	17.2	--	5.0	6.1	--
ANDERSONS PSX103	38.2	35.3	34.3	14.3	16.2	16.1	5.5	5.6	5.5
CARGILL 6127	38.1	--	--	15.2	--	--	5.8	--	--
DAIRYLAND DX1104	38.1	--	--	11.0	--	--	4.2	--	--
GOLDEN HARVEST H-2410	38.1	--	--	13.2	--	--	5.0	--	--
JACQUES 6770	38.0	--	--	15.0	--	--	5.7	--	--
AGRIPRO 710A	38.0	--	--	17.5	--	--	6.7	--	--
RENK RK627	37.8	--	--	16.1	--	--	6.1	--	--
GLENN-GARNO 1003	37.8	35.3	--	12.7	15.4	--	4.8	5.5	--
GLENN-GARNO EX107X	37.8	--	--	15.4	--	--	5.8	--	--
KING K5574	37.7	36.3	34.0	14.8	15.4	16.7	5.6	5.6	5.6
DEKALB-PFIZER DK535	37.6	--	--	13.4	--	--	5.0	--	--
AGRIPRO 680	37.6	33.6	32.0	13.9	16.8	18.4	5.2	5.5	5.7
NORTHROP KING N6321	37.5	34.6	--	15.7	19.0	--	5.9	6.5	--
ANDERSONS PSX107	37.5	36.0	34.2	12.6	14.7	15.1	4.7	5.2	5.1
ASGROW/O'S GOLD RX626	37.4	34.5	--	12.6	16.0	--	4.7	5.3	--
AMCORN PSX9009	37.4	--	--	14.3	--	--	5.3	--	--
PIONEER 3475	37.3	--	--	11.5	--	--	4.3	--	--
CALLAHAN C754	37.3	35.0	34.6	14.5	18.1	18.1	5.4	6.3	6.2
GOLDEN-HARVEST H-2465	37.1	35.4	34.6	12.7	15.9	17.4	4.7	5.6	5.9
DAIRYLAND DX1106	37.0	--	--	14.3	--	--	5.3	--	--
COUNTRYMARK C565X	36.9	35.1	33.9	12.3	14.6	16.2	4.5	5.1	5.4
PRO-SEED 83096	36.8	--	--	12.6	--	--	4.6	--	--
GRIES X-550	36.5	--	--	10.3	--	--	3.8	--	--
GRIES X-580	36.4	35.2	--	13.2	16.9	--	4.8	5.9	--
GOLDEN HARVEST H-2532	36.4	--	--	18.3	--	--	6.7	--	--
SUPER COOST 2989	36.2	35.1	34.4	15.5	16.1	17.4	5.6	5.7	6.0
FUNK G-4309	36.1	--	--	13.7	--	--	4.9	--	--
BETAGOLD MARIA	35.8	--	--	14.2	--	--	5.1	--	--
GREAT LAKES GL-579	35.7	35.5	34.9	17.1	17.9	18.3	6.1	6.3	6.3
DAIRYLAND DX1107	35.7	34.7	33.6	11.4	15.0	15.8	4.1	5.2	5.3
NORTHROP KING N6348	35.3	--	--	15.7	--	--	5.5	--	--
RENK R148	35.3	35.5	35.5	12.6	14.7	15.5	4.4	5.2	5.5
GRIES X-405	35.1	--	--	13.3	--	--	4.7	--	--

(continued next page)



**TABLE 10 (CONTINUED)** SOUTH CENTRAL MICHIGAN  
Ingham County Trial--Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

**ZONE 2**

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GLENN-GARNO 1007	35.1	34.5	33.5	16.2	17.6	18.6	5.7	6.1	6.2
CALLAHAN 19929X	35.1	--	--	14.3	--	--	5.0	--	--
GREAT LAKES GL-582	34.8	--	--	18.7	--	--	6.5	--	--
MAUMEE VALLEY MV888	34.8	33.0	--	17.1	20.3	--	6.0	6.6	--
CARGILL SX269	34.3	--	--	14.4	--	--	4.9	--	--
GLENN-GARNO 1012	34.3	31.8	--	16.0	17.5	--	5.5	5.5	--
COUNTRYMARK C860X	34.1	--	--	14.9	--	--	5.1	--	--
RUPP XR1739	34.0	--	--	15.5	--	--	5.3	--	--
CALLAHAN 20775X	33.8	--	--	14.4	--	--	4.9	--	--
DAIRYLAND DX1015	33.6	--	--	13.1	--	--	4.4	--	--
AGRIPRO AP510	33.5	--	--	16.5	--	--	5.5	--	--
DAIRYLAND DX1017	33.1	--	--	14.9	--	--	5.4	--	--
SUPER CROST EXP.8110	32.6	--	--	14.0	--	--	4.6	--	--
AGRIPRO AP525	32.3	--	--	16.6	--	--	5.4	--	--
CALLAHAN 20041X	32.0	--	--	20.6	--	--	6.6	--	--
<b>AVERAGE</b>	<b>38.3</b>	<b>37.0</b>	<b>35.8</b>	<b>13.6</b>	<b>15.8</b>	<b>16.5</b>	<b>5.2</b>	<b>5.7</b>	<b>5.8</b>
<b>RANGE</b>	<b>32.0</b>	<b>31.8</b>	<b>32.0</b>	<b>7.5</b>	<b>10.8</b>	<b>12.7</b>	<b>3.0</b>	<b>4.7</b>	<b>5.1</b>
	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>	<b>TO</b>
	<b>45.9</b>	<b>45.5</b>	<b>43.6</b>	<b>20.6</b>	<b>20.3</b>	<b>19.7</b>	<b>6.8</b>	<b>6.9</b>	<b>6.8</b>
<b>LEAST SIGNIFICANT DIFFERENCE</b>	<b>3.0</b>	<b>2.3</b>	<b>1.8</b>	<b>2.4</b>	<b>1.8</b>	<b>1.4</b>	<b>0.6</b>	<b>0.5</b>	<b>0.5</b>

	1988	1987	1986
PLANTED	May 3	April 25	April 26
HARVESTED	Sept 2	August 20	September 12
SOIL TYPE	Capac Loam	Capac Loam	Capac Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,100	21,400	21,600
ROWS	36"	36"	36"
FERTILIZER	165-50-50	165-50-50	165-50-50
SOIL TEST: pH	6.1	6.4	6.2
P	160 (very high)	140 (very high)	150 (very high)
K	240 (high)	224 (high)	220 (high)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

**TABLE 11 (CONTINUED)** NORTH CENTRAL MICHIGAN  
Sanilac County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

**ZONE 3**

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
	TERRA TR975	25.4	25	--	99.3	114	--	1.4	1
CALLAHAN C728	25.4	26	26	107.4	125	139	0.8	1	1
*PIONEER 3475	25.5	26	27	156.3	161	162	0.0	0	1
TERRA TR880	25.5	--	--	108.7	--	--	1.4	--	--
GLENN-GARNO 931X	25.5	--	--	127.4	--	--	2.2	--	--
MAUMEE VALLEY MV-509	25.6	--	--	97.9	--	--	3.5	--	--
TERRA TR164E	25.6	--	--	108.6	--	--	0.0	--	--
*CARGILL 4227	25.6	--	--	132.4	--	--	0.7	--	--
GRIES X550	25.7	--	--	118.4	--	--	0.0	--	--
*AMCORN PSX3333	25.7	--	--	139.2	--	--	0.7	--	--
CALLAHAN C743	25.7	--	--	114.9	--	--	0.0	--	--
MAUMEE VALLEY MV-630	25.8	--	--	109.6	--	--	1.4	--	--
DEKALB-PFIZER DK524	26.2	25	26	97.5	124	141	2.1	1	1
ANDERSONS PSX103	26.2	--	--	108.8	--	--	0.9	--	--
TRELAY 5808	26.3	--	--	109.4	--	--	0.0	--	--
*RENK RK627	26.3	--	--	139.8	--	--	0.0	--	--
RUPP XR1527	26.4	--	--	96.6	--	--	0.8	--	--
DEKALB-PFIZER DK535	26.5	--	--	102.9	--	--	0.8	--	--
KING K448	26.5	--	--	94.1	--	--	0.0	--	--
NORTHROP KING N4545	26.6	--	--	117.6	--	--	2.2	--	--
DAIRYLAND DX1104	26.6	--	--	99.0	--	--	0.8	--	--
*TERRA TR32	26.6	26	--	130.2	131	--	0.0	0	--
GLENN-GARNO 1003	26.6	26	--	102.9	120	--	0.8	0	--
NORTHROP KING S4590	26.7	26	--	103.2	122	--	0.0	0	--
SUPER CROST EXP. 8107	26.7	--	--	107.2	--	--	3.8	--	--
RENK R148	26.7	27	27	111.7	114	124	2.8	1	1
KING K4422	26.8	27	--	107.0	108	--	0.0	0	--
COUNTRYMARK C565X	26.8	27	--	121.9	130	--	0.7	0	--
CARGILL 5157	26.8	27	--	115.8	135	--	0.0	0	--
MAUMEE VALLEY MV-611	27.5	--	--	103.0	--	--	0.0	--	--
TERRA TR1040	27.5	28	--	120.3	134	--	1.7	1	--
PICKSEED EX. 41-703	27.6	--	--	104.9	--	--	0.8	--	--
*RENK RK64	27.7	28	--	140.7	150	--	2.9	2	--
SUPER CROST 2989	27.8	27	29	116.1	132	146	1.5	2	2
*GREAT LAKES GL-509	27.9	28	--	142.4	142	--	0.8	1	--
ANDERSONS PSX106	27.9	--	--	114.1	--	--	2.3	--	--
PICKSEED 8877	27.9	--	--	105.7	--	--	1.5	--	--
*AGRIPRO 710A	28.0	29	--	131.8	146	--	0.0	1	--
*GLENN-GARNO 1010	28.1	--	--	141.5	--	--	0.0	--	--
*KING K5574	28.2	28	29	134.3	148	153	0.8	0	1

(continued below)



TABLE 11

NORTH CENTRAL MICHIGAN  
Sanilac County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
ASGROW/O'S GOLD RX337	20.7	--	--	90.3	--	--	0.0	--	--
GLENN-GARNO 831X	21.1	--	--	116.0	--	--	0.7	--	--
BETAGOLD INGRID	21.2	22	--	122.3	115	--	6.7	3	--
PIONEER 3751	21.4	--	--	121.3	--	--	1.6	--	--
PIONEER 3779	21.6	22	23	113.3	125	133	1.8	1	2
PIONEER 3790	22.0	23	25	107.2	116	124	0.8	2	1
GLENN-GARNO 853X	22.0	--	--	109.7	--	--	0.0	--	--
PIONEER 3737	22.3	23	24	113.4	139	146	0.0	0	1
AGRIPRO AP175	22.3	--	--	115.1	--	--	1.5	--	--
GREAT LAKES GL-420	22.4	23	--	125.8	147	--	1.5	1	--
ASGROW/O'S GOLD RX406	22.5	24	--	124.8	122	--	0.7	0	--
COUNTRYMARK C343X	22.7	23	--	90.6	110	--	2.3	1	--
GLENN-GARNO 852X	22.8	--	--	117.4	--	--	0.8	--	--
GLENN-GARNO 888	23.0	23	23	110.4	127	135	0.8	0	1
DAIRYLAND DX1095	23.3	24	--	115.6	122	--	0.0	1	--
DAIRYLAND DX1097	23.5	24	25	103.5	116	133	0.0	0	1
PICKSEED 5577	23.6	--	--	104.3	--	--	0.0	--	--
GRIES X305	23.7	--	--	90.3	--	--	7.6	--	--
*PIONEER 3744	23.9	25	26	140.1	151	156	0.0	0	1
PIONEER 3772	23.9	--	--	111.3	--	--	0.8	--	--
*DAIRYLAND DX1101	24.0	--	--	130.4	--	--	0.0	--	--
PICKSEED 5575	24.0	25	26	122.2	142	150	2.2	1	1
JACQUES 4170	24.1	--	--	106.6	--	--	0.0	--	--
BETAGOLD KARLA	24.1	--	--	100.4	--	--	1.4	--	--
JACQUES 4900	24.2	25	--	121.8	128	--	0.7	1	--
KING K416	24.3	25	26	101.6	131	143	0.7	0	1
DAIRYLAND DX1103	24.7	26	26	116.2	136	136	1.5	1	1
GOLDEN HARVEST H-2343	24.7	25	--	116.6	132	--	0.0	0	--
*CALLAHAN 20046X	24.7	--	--	136.0	--	--	0.0	--	--
CARGILL 3327	24.8	--	--	104.4	--	--	0.7	--	--
DAIRYLAND DX1194	24.8	--	--	118.2	--	--	0.8	--	--
SUPER CROST EXP. 8105	24.9	--	--	107.2	--	--	2.8	--	--
BETAGOLD KRISTINE	24.9	25	--	109.5	109	--	1.8	1	--
AGRIPRO AP364	25.1	--	--	105.7	--	--	0.8	--	--
RENK RK19	25.1	25	26	112.2	138	144	0.8	2	2
FUNK G-4299	25.2	--	--	118.8	--	--	0.0	--	--
*PIONEER 3585	25.3	--	--	144.4	--	--	1.5	--	--
GOLDEN HARVEST H-2344	25.3	24	26	107.6	114	128	0.7	0	1
FUNK G-4309	25.4	--	--	125.4	--	--	0.0	--	--
*GREAT LAKES GL-482	25.4	26	--	132.2	140	--	0.0	0	--

(continued top right)

TABLE 11 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Sanilac County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GLENN-GARNO 107A5X	28.3	--	--	96.3	--	--	0.0	--	--
AMCORN. PSX5555	28.4	--	--	106.9	--	--	2.3	--	--
*GRIES X580	28.7	29	--	143.8	136	--	1.5	1	--
*ANDERSONS PSX100	28.7	28	--	131.8	140	--	0.0	0	--
GLENN-GARNO EK107X	28.8	--	--	118.9	--	--	0.7	--	--
GREAT LAKES GL-579	28.9	28	29	128.3	141	153	2.3	1	1
MAUMEE VALLEY MV-762	28.9	--	--	117.9	--	--	1.4	--	--
*CALLAHAN 19929X	28.9	--	--	144.4	--	--	0.0	--	--
CARGILL SX269	29.0	--	--	112.6	--	--	0.7	--	--
NORTHROP KING S5340	29.2	29	29	123.4	144	153	0.7	0	1
*DEKALB-PFIZER DK547	29.2	--	--	130.8	--	--	2.2	--	--
*MAUMEE VALLEY MV-812	29.2	--	--	137.3	--	--	0.0	--	--
GLENN-GARNO 1007	29.3	28	--	123.6	138	--	1.6	1	--
*GLENN-GARNO 10747X	29.9	--	--	135.5	--	--	0.0	--	--
*GOLDEN HARVEST H-2532	30.1	--	--	153.9	--	--	0.0	--	--
GLENN-GARNO 1008	30.5	--	--	118.1	--	--	2.3	--	--
RUPP XR1739	31.5	--	--	125.8	--	--	0.0	--	--
*AGRIPRO AP525	31.8	--	--	136.1	--	--	2.9	--	--
COUNTRYMARK C660X	32.1	--	--	102.3	--	--	1.5	--	--
TERRA TR59	32.3	--	--	118.9	--	--	1.4	--	--

(continued next page)



TABLE 11 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Sanilac County Trial - Grain  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
	1988	YR	YR	1988	YR	YR	1988	YR	YR
AVERAGE	26.0	26	26	117.1	131	142	1.0	1	1
RANGE	20.7 TO 32.3	22 TO 29	23 TO 29	90.3 TO 156.3	108 TO 161	124 TO 162	0.0 TO 7.6	0 TO 3	1 TO 2
LEAST SIGNIFICANT DIFFERENCE	2.1	1.5	1.0	12.7	8	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 6	May 9	May 12
HARVESTED	October 28	October 26	November 6
SOIL TYPE	Parkhill loam	Parkhill loam	Parkhill loam
PREVIOUS CROP	Sudan Grass	Corn	Corn
POPULATION	21,900	22,000	21,500
ROWS	30"	30"	30"
FERTILIZER	153-58-200	149-52-172	135-60-150
SOIL TEST: pH	6.4	6.6	7.0
P	108 (very high)	148 (very high)	121 (very high)
K	475 (very high)	376 (very high)	413 (very high)

FARM COOPERATOR: Ray Orchard, Applegate

COUNTY EXTENSION DIRECTOR: Martin Nagelkirk, Sandusky (1988,1987)  
Rex Sieting, Sandusky (1986)

TABLE 12 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Sanilac County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			TONS PER ACRE		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
	1988	YR	YR	1988	YR	YR	1988	YR	YR
GOLDEN HARVEST H-2343	31.6	30.8	--	10.4	16.8	--	3.3	5.1	--
FUNK G-4309	31.4	--	--	13.7	--	--	4.3	--	--
TERRA TR975	31.4	29.7	--	8.5	13.5	--	2.7	3.9	--
NORTHROP KING S4590	31.1	29.7	--	14.0	19.3	--	4.4	5.7	--
CALLAHAN C743	31.1	--	--	13.2	--	--	4.1	--	--
GREAT LAKES GL-482	31.0	29.3	--	14.2	18.4	--	4.4	5.3	--
DAIRYLAND DX1101	31.0	--	--	11.5	--	--	3.6	--	--
RENK RK19	31.0	30.3	37.2	11.3	17.8	16.7	3.6	5.3	6.0
FUNK G-4299	30.9	--	--	12.7	--	--	4.0	--	--
PICKSEED 5575	30.9	29.0	36.1	12.5	18.0	17.3	3.9	5.1	6.1
PIONEER 3585	30.7	--	--	13.9	--	--	4.2	--	--
TRELAY 5808	30.7	--	--	10.6	--	--	3.3	--	--
PICKSEED 5577	30.7	--	--	9.7	--	--	3.0	--	--
AGRI PRO AP364	30.6	--	--	11.8	--	--	3.6	--	--
CARGILL 4227	30.6	--	--	12.2	--	--	3.8	--	--
GLENN-GARNO 1010	30.6	--	--	15.1	--	--	4.6	--	--
GLENN-GARNO 107A5X	30.6	--	--	11.8	--	--	3.6	--	--
GLENN-GARNO 1003	30.5	27.8	--	11.3	17.0	--	3.5	4.6	--
NORTHROP KING S5340	30.4	28.1	34.7	16.2	21.0	20.6	4.9	5.8	7.0
DAIRYLAND DX1194	30.3	--	--	12.2	--	--	3.7	--	--
CALLAHAN 19929X	30.1	--	--	12.7	--	--	3.8	--	--
PICKSEED 8877	29.9	--	--	11.8	--	--	3.6	--	--
GLENN-GARNO 1007	29.9	27.9	--	16.2	21.5	--	4.9	5.9	--
DEKALB-PFIZER DK535	29.8	--	--	15.1	--	--	4.5	--	--
TERRA TR164E	29.7	--	--	10.8	--	--	3.2	--	--
RENK R148	29.7	27.6	34.8	14.6	17.7	17.5	4.3	4.8	6.0
SUPER CROST EXP.8107	29.6	--	--	11.3	--	--	3.4	--	--
ANDERSONS PSX106	29.5	--	--	15.1	--	--	4.4	--	--
TERRA TR1040	29.5	27.0	--	16.5	18.8	--	4.9	5.0	--
MAUMEE VALLEY MV630	29.4	--	--	9.7	--	--	2.8	--	--
GLENN-GARNO EX107X	29.4	--	--	13.2	--	--	3.9	--	--
DEKALB-PFIZER DK547	29.2	--	--	15.0	--	--	4.5	--	--
RENK RK64	29.1	26.0	--	15.5	17.4	--	4.5	4.4	--
GLENN-GARNO 10747X	28.9	--	--	14.6	--	--	4.2	--	--
CALLAHAN C728	28.9	26.8	35.7	10.4	15.8	15.4	3.0	4.1	5.3
DAIRYLAND DX1104	28.8	--	--	11.1	--	--	3.2	--	--
GOLDEN HARVEST H-2532	28.6	--	--	18.1	--	--	5.2	--	--
GREAT LAKES GL-579	28.4	27.0	33.2	16.9	21.9	21.4	4.8	5.8	7.0
ANDERSONS PSX100	28.4	27.1	--	13.2	17.9	--	3.8	4.8	--
TERRA TR880	28.3	--	--	9.7	--	--	2.8	--	--

(continued below)



TABLE 12

NORTH CENTRAL MICHIGAN  
Sanilac County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			DRY WEIGHT		
	1988	2 YR	3 YR	GREEN WEIGHT			DRY WEIGHT		
				1988	2 YR	3 YR	1988	2 YR	3 YR
BETAGOLD INGRID	39.9	36.1	--	8.9	13.7	--	3.6	4.8	--
ASGROW/O'S GOLD RX337	39.7	--	--	11.1	--	--	4.4	--	--
GLENN-GARNO 853X	39.5	--	--	9.9	--	--	3.9	--	--
GLENN-GARNO 831X	38.8	--	--	9.7	--	--	3.7	--	--
CARGILL 3327	38.6	--	--	12.2	--	--	4.7	--	--
DAIRYLAND DX1097	38.0	33.4	40.2	10.2	14.3	14.1	3.9	4.6	5.5
GLENN-GARNO 852X	37.9	--	--	11.5	--	--	4.4	--	--
GRIES X-305	37.4	--	--	9.4	--	--	3.5	--	--
PIONEER 3790	37.2	33.7	41.8	12.5	16.7	15.5	4.7	5.5	6.2
DAIRYLAND DX1095	36.5	32.5	--	13.2	17.3	--	4.8	5.4	--
NORTHRUP KING N4545	36.2	--	--	13.9	--	--	5.0	--	--
PIONEER 3779	35.7	31.6	39.6	13.4	17.5	16.2	4.9	5.4	6.1
KING K416	35.6	32.2	39.1	9.7	14.2	14.9	3.4	4.4	5.8
PIONEER 3772	35.5	--	--	12.5	--	--	4.4	--	--
KING K 448	35.5	--	--	12.5	--	--	4.4	--	--
MAUMEE VALLEY MV509	34.3	--	--	11.8	--	--	4.0	--	--
GREAT LAKES GL-420	33.7	31.0	--	13.4	16.3	--	4.5	5.0	--
AMCORN PSX 3333	33.7	--	--	13.7	--	--	4.6	--	--
SUPER CROST EXP.8105	33.6	--	--	12.7	--	--	4.3	--	--
BETAGOLD KRISTIN	33.6	29.0	--	9.4	14.7	--	3.2	4.0	--
PIONEER 3737	33.5	31.0	37.9	13.5	17.2	17.2	4.6	5.3	6.5
COUNTRYMARK C343X	33.5	30.9	--	10.6	17.1	--	3.6	5.1	--
JACQUES 4900	33.3	30.4	--	11.3	15.8	--	3.8	4.7	--
BETAGOLD KARLA	33.2	--	--	12.5	--	--	4.1	--	--
PIONEER 3751	33.0	--	--	12.0	--	--	3.8	--	--
ASGROW/O'S GOLD RX406	32.6	30.4	--	9.9	15.9	--	3.3	4.7	--
RUPP XR1527	32.3	--	--	10.8	--	--	3.5	--	--
DEKALB-PFIZER DK524	32.2	28.8	35.5	12.5	18.6	17.9	4.2	5.2	6.2
GLENN-GARNO 888	32.1	31.6	39.1	10.1	14.5	14.7	3.2	4.5	5.7
CARGILL SX269	32.0	--	--	15.8	--	--	5.0	--	--
AGRIPRO AP175	32.0	--	--	10.2	--	--	3.3	--	--
MAUMEE VALLEY MV611	32.0	--	--	12.0	--	--	3.8	--	--
TERRA TR32	31.9	27.0	--	12.2	16.3	--	4.0	4.2	--
GLENN-GARNO 931X	31.9	--	--	10.7	--	--	3.4	--	--
GOLDEN HARVEST H-2344	31.8	29.8	38.3	13.2	16.3	15.5	4.2	4.8	5.7
PIONEER 3744	31.7	29.6	36.7	13.7	17.4	16.9	4.3	5.1	6.1
CARGILL 5157	31.7	28.0	--	18.1	20.9	--	5.7	5.7	--
JACQUES 4170	31.6	--	--	12.5	--	--	3.9	--	--
KING K4422	31.6	29.0	--	13.0	18.2	--	4.1	5.1	--
DAIRYLAND DX1103	31.6	28.3	35.8	12.0	20.5	18.9	3.8	5.5	6.3

(continued top right)

TABLE 12 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Sanilac County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			DRY WEIGHT		
	1988	2 YR	3 YR	GREEN WEIGHT			DRY WEIGHT		
				1988	2 YR	3 YR	1988	2 YR	3 YR
COUNTRYMARK C565X	28.1	27.6	--	14.1	19.4	--	4.0	5.3	--
PIONEER 3475	28.0	26.4	34.1	12.5	19.7	19.2	3.6	5.1	6.4
MAUMEE VALLEY MV812	27.9	--	--	13.7	--	--	3.8	--	--
MAUMEE VALLEY MV762	27.8	--	--	14.4	--	--	4.0	--	--
CALLAHN 20046X	27.5	--	--	12.1	--	--	3.3	--	--
GRIES X-580	27.3	26.5	--	12.2	18.2	--	3.3	4.7	--
AGRIPRO AP525	27.0	--	--	12.7	--	--	3.4	--	--
KING K 5574	26.7	26.3	34.4	14.4	21.1	19.8	3.9	5.5	6.6
GRIES X-550	26.4	--	--	11.2	--	--	3.0	--	--
SUPER CROST 2989	26.3	25.4	32.8	12.0	18.2	18.0	3.2	4.6	5.9
ANDERSONS PSX103	26.2	--	--	13.9	--	--	3.6	--	--
RENK RK627	25.8	--	--	14.6	--	--	3.8	--	--
PICKSEED EX.41-703	25.8	--	--	12.2	--	--	3.2	--	--
GREAT LAKES GL-509	25.3	26.1	--	15.8	19.8	--	4.0	5.2	--
AMCORN PSX 555	25.1	--	--	15.4	--	--	3.9	--	--
RUPP XR1739	24.8	--	--	15.1	--	--	3.8	--	--
COUNTRYMARK C660X	24.6	--	--	13.2	--	--	3.3	--	--
AGRIPRO 710A	24.3	23.1	--	13.9	18.1	--	3.4	4.1	--
GLENN-GARNO 1008	24.0	--	--	12.7	--	--	3.1	--	--
TERRA TR59	23.2	--	--	17.7	--	--	4.1	--	--

(continued next page)



TABLE 12 (CONTINUED) NORTH CENTRAL MICHIGAN ZONE 3  
Sanilac County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
AVERAGE	31.0	29.0	36.7	12.5	17.6	17.2	3.9	5.0	6.1
RANGE	23.2 TO 39.9	23.1 TO 36.1	32.8 TO 41.8	8.5 TO 18.1	13.5 TO 21.9	14.1 TO 21.4	2.7 TO 5.7	3.9 TO 5.9	5.3 TO 7.0
LEAST SIGNIFICANT DIFFERENCE	3.5	2.7	2.3	2.2	1.8	1.4	0.5	0.4	0.4

	1988	1987	1986
PLANTED	May 6	May 9	May 12
HARVESTED	September 8	September 9	October 22
SOIL TYPE	Parkhill Loam	Parkhill Loam	Parkhill Loam
PREVIOUS CROP	Sudan Grass	Corn	Corn
POPULATION	21,700	20,300	20,100
ROWS	30"	30"	30"
FERTILIZER	153-58-200	149-52-172	135-60-150
SOIL TEST: pH	6.4	6.6	7.0
P	108(very high)	148(very high)	121(very high)
K	475(very high)	376(very high)	413(very high)

FARM COOPERATOR: Ray Orchard, Applegate

COUNTY EXTENSION DIRECTOR: Martin Nagelkirk, Sandusky (1988,1987)  
Rex Sieting, Sandusky (1986)

TABLE 13 (CONTINUED) NORTH CENTRAL MICHIGAN ZONE 3  
Saginaw County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
	CROW'S 195	22.0	--	--	64.3	--	--	6.5	--
NORTHROP KING S4590	22.1	--	--	83.0	--	--	7.7	--	--
*NORTHROP KING N4545	22.1	--	--	119.7	--	--	1.4	--	--
*PIONEER 3475	22.1	22	22	116.9	134	151	5.5	4	3
PIONEER 3772	22.1	--	--	95.6	--	--	2.6	--	--
*SELECT 2772	22.2	21	--	117.1	133	--	7.0	5	--
DAIRYLAND DX1103	22.2	22	22	100.2	118	133	7.1	4	4
*GREAT LAKES GL-482	22.3	22	--	113.4	134	--	7.1	5	--
DAIRYLAND-DX1194	22.3	--	--	96.9	--	--	7.1	--	--
DEKALB-PFIZER DK535	22.4	--	--	91.1	--	--	7.2	--	--
WOLVERINE W156	22.4	21	--	104.8	128	--	11.4	8	--
*PIONEER 3585	22.4	--	--	115.6	--	--	3.1	--	--
TERRA TR880	22.4	--	--	82.9	--	--	4.8	--	--
SELECT 3100	22.4	22	22	108.9	129	140	12.2	10	6
GOLDEN HARVEST H-2410	22.4	--	--	94.8	--	--	17.8	--	--
*PRO-SEED 83105	22.5	--	--	113.6	--	--	7.7	--	--
SELECT 2626	22.5	21	21	107.4	128	136	3.0	2	2
*CALLAHAN 19929X	22.5	--	--	126.3	--	--	3.1	--	--
MAUMEE VALLEY MV-630	22.6	--	--	82.4	--	--	6.3	--	--
RENK RK627	22.6	--	--	89.0	--	--	10.0	--	--
RUPP XR1557	22.6	--	--	86.8	--	--	8.0	--	--
PICKSEED 5577	22.6	--	--	94.6	--	--	3.4	--	--
SUPER CROST EXP.8107	22.7	--	--	108.6	--	--	5.3	--	--
*DEKALB-PFIZER DK547	22.8	23	--	115.1	134	--	7.8	4	--
GREAT LAKES GL-509	22.8	22	--	106.9	124	--	8.3	7	--
*WOLVERINE W163	22.8	21	--	113.5	125	--	6.9	4	--
AGRIPRO AP364	22.8	--	--	80.1	--	--	6.1	--	--
SEEDEX 1060	22.8	--	--	109.5	--	--	8.2	--	--
DEKALB-PFIZER DK524	23.0	22	22	85.6	112	135	5.4	5	4
GLENN-GARNO 1008	23.0	--	--	108.1	--	--	1.6	--	--
*AMCORN PSX5555	23.0	--	--	118.4	--	--	4.8	--	--
KING K448	23.1	--	--	89.8	--	--	1.4	--	--
BETAGOLD KRISTINE	23.1	21	--	72.6	100	--	10.8	7	--
*PAYCO 648	23.1	--	--	110.8	--	--	7.9	--	--
PAYCO 748	23.1	--	--	94.2	--	--	10.4	--	--
GOLDEN HARVEST H-2404	23.1	--	--	76.9	--	--	6.5	--	--
GLENN-GARNO 107A5X	23.2	--	--	88.6	--	--	2.3	--	--
GARST 8708	23.3	--	--	82.9	--	--	10.2	--	--
GOLDEN HARVEST H-2438	23.3	--	--	90.9	--	--	24.8	--	--
GLENN-GARNO 1083	23.3	23	--	82.5	110	--	5.5	5	--

(continued below)



TABLE 13

NORTH CENTRAL MICHIGAN  
Saginaw County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GRIES X305	18.5	--	--	68.7	--	--	8.4	--	--
DAIRYLAND DX1190	19.2	--	--	69.2	--	--	6.8	--	--
DAIRYLAND DX1087	19.3	--	--	71.1	--	--	11.7	--	--
DAIRYLAND DX1096	19.4	19	20	77.1	103	127	8.1	8	7
GLENN-GARNO 852X	19.5	--	--	60.6	--	--	13.7	--	--
GLENN-GARNO 853X	19.5	--	--	60.3	--	--	3.8	--	--
GLENN-GARNO 888	19.6	19	20	80.5	114	134	7.8	5	5
GLENN-GARNO 831X	19.8	--	--	66.5	--	--	9.2	--	--
DAIRYLAND DX1095	20.0	19	--	102.1	119	--	7.1	8	--
MAUMEE VALLEY MV-509	20.1	--	--	74.8	--	--	7.0	--	--
CROW'S 175	20.1	--	--	60.6	--	--	17.2	--	--
GREAT LAKES GL-420	20.2	19	--	95.5	120	--	14.0	9	--
AMCORN PSX3333	20.3	--	--	99.5	--	--	9.4	--	--
BETAGOLD INGRID	20.4	19	20	72.9	99	123	23.7	14	11
RENK RK505	20.4	--	--	85.6	--	--	16.4	--	--
GLENN-GARNO 931X	20.4	--	--	96.2	--	--	6.8	--	--
DAIRYLAND DX1097	20.5	19	20	68.6	94	115	16.7	12	8
PIONEER 3737	20.6	20	21	91.0	111	130	9.9	11	9
SEEDEX 995	20.6	--	--	72.6	--	--	7.6	--	--
BETAGOLD KARLA	20.6	--	--	98.3	--	--	7.4	--	--
CARGILL 3477	20.6	19	--	64.1	89	--	11.3	10	--
PIONEER 3751	20.7	--	--	83.4	--	--	3.9	--	--
ASGROW/O'S GOLD RX406	20.7	--	--	96.4	--	--	20.8	--	--
PAYCO 448	20.7	--	--	89.9	--	--	6.2	--	--
RENK RX19	20.9	20	21	97.0	125	130	12.5	8	6
PAYCO SX687	21.0	--	--	73.0	--	--	11.7	--	--
PICKSEED 5575	21.0	21	21	84.1	110	120	4.9	5	3
DAIRYLAND DX1101	21.1	--	--	97.0	--	--	4.4	--	--
KING K416	21.2	20	21	63.3	98	121	15.6	9	7
PAYCO SX686	21.2	--	--	94.1	--	--	7.6	--	--
RUPP XR1527	21.3	22	--	87.7	115	--	8.5	5	--
WOLVERINE X187	21.5	--	--	62.9	--	--	5.4	--	--
MAUMEE VALLEY MV-611	21.5	--	--	76.4	--	--	8.7	--	--
HERITAGE EASY MONEY	21.6	--	--	78.9	--	--	6.0	--	--
RENK R138	21.7	21	--	94.7	119	--	7.6	4	--
PIONEER 3744	21.8	21	21	92.2	121	140	3.9	5	5
TERRA TR32	21.8	21	21	77.6	95	113	8.9	6	5
WOLVERINE X199	21.9	--	--	101.2	--	--	5.6	--	--
KING K4422	21.9	21	--	93.0	121	--	7.1	6	--
TERRA TR975	22.0	21	--	103.5	117	--	5.3	4	--

(continued top right)

TABLE 13 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Saginaw County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
*GLENN-GARNO EX107X	23.3	--	--	111.3	--	--	6.9	--	--
*SUPER CROST 2510	23.4	--	--	122.0	--	--	8.5	--	--
JACQUES 7700	23.5	23	--	100.5	126	--	9.8	5	--
*CARGILL 5157	23.5	22	--	133.1	146	--	6.6	7	--
GRIES X550	23.6	--	--	86.4	--	--	8.7	--	--
*GREAT LAKES GL-579	23.6	23	23	113.3	133	154	7.0	4	3
*ASGROW/O'S GOLD RX578	23.6	23	--	114.5	134	--	6.2	4	--
*MAUMEE VALLEY MV-762	23.6	--	--	124.6	--	--	7.1	--	--
*ASGROW/O'S GOLD RX626	23.7	23	--	136.0	141	--	5.2	5	--
HERITAGE GREEN MACHINE	23.7	--	--	88.8	--	--	12.7	--	--
RENK R148	23.8	23	23	91.0	105	116	13.7	8	6
*FUNK G-4326	23.9	--	--	123.6	--	--	6.3	--	--
WOLVERINE X1221	23.9	--	--	97.8	--	--	11.5	--	--
DAIRYLAND DX1104	24.0	--	--	89.1	--	--	5.1	--	--
TERRA TR164E	24.2	--	--	94.1	--	--	3.1	--	--
*SELECT 3720	24.2	23	24	121.3	140	148	6.5	6	5
*ANDERSONS PSX100	24.2	24	24	133.3	136	152	5.7	5	4
*NORTHROP KING S5340	24.3	23	23	115.3	137	151	7.1	6	4
RUPP XR1639	24.3	--	--	94.2	--	--	7.8	--	--
*KING K5574	24.4	23	23	131.3	137	155	9.2	6	4
*ANDERSONS PSX107	24.4	24	24	139.9	139	154	5.2	5	4
*TERRA TR1040	24.4	23	23	118.5	132	152	7.1	7	5
*RENK RK64	24.5	23	23	121.0	132	142	4.5	5	5
*PAYCO SX872	24.5	23	23	113.2	135	152	8.7	6	4
*GLENN-GARNO 1007	24.5	23	--	114.3	134	--	3.8	4	--
JACQUES 6770	24.6	--	--	105.3	--	--	3.0	--	--
*GREAT LAKES GL-582	24.7	--	--	134.5	--	--	5.5	--	--
*MAUMEE VALLEY MV-812	24.7	--	--	119.1	--	--	12.3	--	--
PICKSEED EX.41-703	24.8	--	--	92.1	--	--	3.1	--	--
*FUNK G-4425	24.9	--	--	119.0	--	--	4.8	--	--
*DAIRYLAND DX1106	24.9	--	--	114.6	--	--	2.9	--	--
CARGILL 6127	25.0	--	--	106.5	--	--	4.8	--	--
RENK RK68	25.0	24	24	106.8	133	148	11.2	7	5
*CALLAHAN 20041X	25.1	--	--	125.3	--	--	8.7	--	--
AGRIPRO AP860	25.3	24	25	103.5	124	132	6.0	3	3
DAIRYLAND DX1107	25.3	24	24	108.5	126	137	4.5	4	3
GOLDEN HARVEST H-2465	25.3	24	--	105.6	128	--	9.6	7	--
*RUPP XR1739	25.4	--	--	135.4	--	--	4.5	--	--
GLENN-GARNO 10747X	25.4	--	--	105.5	--	--	2.3	--	--
*GLENN-GARNO 1010	25.9	--	--	127.7	--	--	6.2	--	--

(continued next page)



TABLE 13 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Saginaw County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
*SEDEX 1085	26.0	--	--	119.4	--	--	4.5	--	--
*ANDERSONS PSX106	26.0	--	--	121.4	--	--	5.1	--	--
PICKSEED 8877	26.3	--	--	107.5	--	--	5.3	--	--
CALLAHAN C765	26.3	--	--	107.1	--	--	1.7	--	--
*CARGILL 6227	26.6	--	--	116.9	--	--	4.6	--	--
GRIES X580	26.8	24	--	101.4	120	--	7.6	5	--
SUPER CROST 2989	27.2	25	24	100.9	127	152	5.3	3	3
*CALLAHAN 20775X	27.3	--	--	130.7	--	--	3.0	--	--
*NORTHROP KING N6348	27.9	--	--	135.4	--	--	8.1	--	--
AVERAGE	22.8	22	22	99.1	122	138	7.6	6	5
RANGE	18.5	19	20	60.3	89	113	1.4	2	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.9	25	25	139.9	146	155	24.8	14	11
LEAST SIGNIFICANT DIFFERENCE	1.8	1.1	0.9	11.2	9	7	--	--	--

28 \*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 5	May 5	May 1
HARVESTED	October 29	October 22	November 5
SOIL TYPE	Parkhill loam	Parkhill loam	Parkhill loam
PREVIOUS CROP	Soybeans	Sugar Beets	Sugar Beets
POPULATION	21,800	22,100	21,600
ROWS	30"	30"	30"
FERTILIZER	116-52-52 + 1% Zinc	250-49-84 + Zinc, Sulfur, Manganese	287-56-56
SOIL TEST: pH	7.0	6.8	7.5
P	130 (very high)	141 (very high)	185 (very high)
K	269 (high)	339 (very high)	329 (very high)

FARM COOPERATOR: Reinbold Farms, Reese

COUNTY AGRICULTURAL AGENT: Steve Poindexter, Saginaw

TABLE 14 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Huron County Trial--Grain  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GLENN-GARNO 931X	25.8	--	--	90.5	--	--	7.5	--	--
TERRA TR32	25.9	23	23	98.6	78	90	5.1	5	4
*WOLVERINE W163	26.0	24	24	117.0	96	105	0.0	0	2
MAUMEE VALLEY MV-630	26.0	--	--	111.8	--	--	1.5	--	--
*SUPER CROST 2445	26.2	--	--	119.9	--	--	3.1	--	--
TERRA TR880	26.2	--	--	77.3	--	--	9.8	--	--
*PIONEER 3585	26.4	--	--	115.3	--	--	1.6	--	--
*KING K4422	26.4	24	--	113.8	85	--	1.6	2	--
DEKALB-PFIZER DK524	26.5	24	24	92.5	90	106	1.6	1	1
RENK R148	26.6	25	25	71.2	67	83	0.8	2	2
FUNK G-4299	26.7	--	--	105.7	--	--	0.0	--	--
BETAGOLD KARLA	26.8	--	--	109.7	--	--	0.0	--	--
TERRA TR164E	26.8	--	--	105.0	--	--	0.8	--	--
*FUNK G-4309	27.0	--	--	132.3	--	--	7.0	--	--
DAIRYLAND DX1103	27.0	24	24	109.2	99	106	10.3	6	5
DEKALB-PFIZER DK535	27.1	--	--	110.4	--	--	1.6	--	--
*DEKALB-PFIZER DK547	27.3	--	--	127.9	--	--	0.9	--	--
*PIONEER 3475	27.4	24	24	114.7	102	111	2.6	3	3
RENK RK627	27.4	--	--	91.7	--	--	8.1	--	--
RENK R138	27.4	24	--	94.5	68	--	0.0	2	--
*AMCORN PSX5555	27.4	--	--	119.0	--	--	2.3	--	--
GREAT LAKES GL-509	27.7	25	--	108.8	88	--	2.9	1	--
NORTHROP KING N4545	27.7	--	--	86.2	--	--	1.6	--	--
ASGROW/O'S GOLD RX498	27.8	25	--	111.3	85	--	0.7	2	--
TERRA TR975	28.1	--	--	94.3	--	--	0.8	--	--
GLENN-GARNO 1007	28.2	25	--	107.1	96	--	2.3	2	--
*GLENN-GARNO 1010	28.5	--	--	133.8	--	--	0.8	--	--
JACQUES 5700	28.7	--	--	101.7	--	--	2.6	--	--
GREAT LAKES GL-579	29.0	25	25	112.7	103	110	0.7	0	1
KING K448	29.0	--	--	106.5	--	--	1.4	--	--
COUNTRYMARK C565X	29.0	26	--	85.3	85	--	0.0	0	--
GREAT LAKES GL-566	29.4	--	--	101.2	--	--	1.4	--	--
*DAIRYLAND DX1106	29.4	--	--	135.9	--	--	0.0	--	--
RENK RK64	29.4	26	25	103.8	85	99	0.0	0	1
CARGILL 5157	29.6	--	--	109.6	--	--	2.8	--	--
GLENN-GARNO 1003	29.7	25	--	94.5	88	--	0.8	0	--
GLENN-GARNO 1008	29.8	--	--	93.4	--	--	5.5	--	--
*GREAT LAKES GL-582	29.9	25	--	130.1	108	--	0.0	2	--
NORTHROP KING S5987WX	30.0	--	--	110.6	--	--	2.2	--	--
DAIRYLAND DX1104	30.1	--	--	83.9	--	--	3.5	--	--

(continued below)



TABLE 14

NORTH CENTRAL MICHIGAN  
Huron County Trial--Grain  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
KING K416	20.9	20	21	91.3	86	100	7.5	5	5
PIONEER 3779	21.0	20	21	101.0	77	88	2.5	5	4
ASGROW/O'S GOLD RX337	21.0	--	--	95.6	--	--	0.0	--	--
GRIES X-305	21.6	--	--	72.5	--	--	7.9	--	--
SUPER CROST 1637	22.3	--	--	103.0	--	--	10.3	--	--
GLENN-GARNO 831X	22.5	--	--	82.3	--	--	1.5	--	--
*AMCORN PSX3333	22.5	--	--	113.6	--	--	2.3	--	--
DAIRYLAND DX1087	22.7	--	--	102.1	--	--	1.8	--	--
PIONEER 3772	22.9	--	--	99.3	--	--	0.8	--	--
RENK R129	22.9	--	--	82.5	--	--	0.0	--	--
BETAGOLD INGRID	23.0	21	--	104.5	87	--	0.8	2	--
GLENN-GARNO 852X	23.0	--	--	95.7	--	--	0.0	--	--
*ASGROW/O'S GOLD RX406	23.1	--	--	113.4	--	--	1.5	--	--
DAIRYLAND DX1190	23.1	--	--	98.4	--	--	2.9	--	--
COUNTRYMARK C343X	23.2	21	--	90.9	89	--	0.0	0	--
*DAIRYLAND DX1095	23.2	21	--	116.9	107	--	7.6	4	--
GLENN-GARNO 853X	23.2	--	--	76.6	--	--	1.5	--	--
*GREAT LAKES GL-420	23.3	21	--	113.6	105	--	1.5	2	--
CARGILL 3477	23.4	22	--	93.8	81	--	7.0	5	--
PIONEER 3737	23.7	22	23	102.5	80	96	1.6	9	7
CARGILL 3027	23.7	--	--	111.2	--	--	0.8	--	--
*RENK RK505	23.8	--	--	120.4	--	--	0.7	--	--
GLENN-GARNO 888	23.8	22	22	90.9	89	100	3.3	2	2
ANDERSONS PSX85	24.0	--	--	103.6	--	--	0.0	--	--
*JACQUES 4900	24.3	23	--	121.4	102	--	3.4	2	--
DAIRYLAND DX1097	24.4	22	22	80.5	71	87	1.1	1	1
*GOLDEN HARVEST H-2344	24.5	23	23	114.2	104	115	0.0	0	0
WOLVERINE W156	24.7	22	22	102.6	94	106	7.1	4	3
PIONEER 3751	24.7	--	--	96.0	--	--	6.8	--	--
DAIRYLAND DX1194	24.9	--	--	98.1	--	--	6.8	--	--
DAIRYLAND DX1101	24.9	--	--	101.7	--	--	0.0	--	--
MAUMEE VALLEY MV-509	25.1	--	--	80.6	--	--	0.0	--	--
ANDERSONS PSX99	25.2	23	23	110.4	90	101	0.0	5	4
NORTHROP KING S4590	25.3	23	--	100.5	88	--	0.0	0	--
*GREAT LAKES GL-482	25.3	24	--	129.1	103	--	2.2	2	--
*CARGILL 4227	25.3	--	--	114.1	--	--	10.4	--	--
GOLDEN HARVEST H-2343	25.3	23	--	82.4	78	--	0.8	4	--
MAUMEE VALLEY MV-611	25.4	--	--	101.5	--	--	10.7	--	--
GRIES X550	25.5	--	--	98.5	--	--	3.2	--	--
NORTHROP KING S3306	25.6	--	--	88.8	--	--	0.8	--	--

(continued top right)

TABLE 14 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Huron County Trial--Grain  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GLENN-GARNO 107A5X	30.1	--	--	83.1	--	--	1.0	--	--
CARGILL SX269	30.2	--	--	97.4	--	--	4.7	--	--
ANDERSONS PSX103	30.2	26	25	85.4	82	95	3.0	2	1
TERRA TR1040	30.2	26	--	94.7	74	--	1.6	2	--
GRIES X580	30.3	26	--	87.3	68	--	0.0	0	--
MAUMEE VALLEY MV-762	30.3	--	--	95.2	--	--	0.0	--	--
MAUMEE VALLEY MV-812	30.3	--	--	98.9	--	--	8.3	--	--
*GLENN-GARNO 10747X	30.3	--	--	129.8	--	--	0.0	--	--
KING K5574	30.4	--	--	88.3	--	--	1.4	--	--
COUNTRYMARK C660X	30.5	--	--	100.6	--	--	0.9	--	--
GLENN-GARNO EK107X	30.5	--	--	91.6	--	--	0.8	--	--
NORTHROP KING N6321	30.6	26	--	106.2	78	--	0.0	0	--
GREAT LAKES GL-599	30.8	28	27	103.3	85	100	4.9	4	3
SUPER CROST 2989	31.0	27	--	84.9	82	--	0.0	3	--
DAIRYLAND DX1107	31.3	27	26	84.0	80	94	1.7	1	1
RENK RK68	31.3	26	26	98.0	74	98	0.8	6	6
NORTHROP KING S5340	31.4	27	27	81.6	80	101	2.6	2	2
RENK RK76	31.4	28	28	90.0	76	92	0.8	2	1
*TERRA TR59	31.7	--	--	113.6	--	--	0.7	--	--
AVERAGE	26.7	24	24	101.2	87	99	2.6	2	3
RANGE	20.9	20	21	71.2	67	83	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	31.7	28	28	135.9	108	115	10.7	9	7
LEAST SIGNIFICANT DIFFERENCE	2.1	1.4	1.0	12.1	8	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 5	April 30	May 1
HARVESTED	October 28	October 29	November 6
SOIL TYPE	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	19,600	18,900	19,100
ROWS	30"	30"	30"
FERTILIZER	177-62-99	177-62-69 + Zn	148-62-99
SOIL TEST: pH	6.1	6.8	7.7
P	127 (very high)	140 (very high)	81 (high)
K	263 (high)	325 (very high)	160 (medium)

FARM COOPERATOR: William McCrea, Bad Axe

COUNTY AGRICULTURAL AGENT: Jim LeCureux, Bad Axe



TABLE 15

NORTH CENTRAL MICHIGAN  
Huron County Trial--Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
CARGILL 3027	43.4	--	--	9.7	--	--	4.2	--	--
SUPER CROST 1637	43.3	--	--	10.2	--	--	4.4	--	--
ANDERSONS PSX85	43.2	--	--	9.9	--	--	4.3	--	--
GLENN-GARNO 853X	42.9	--	--	9.5	--	--	4.1	--	--
ASGROW/O'SGOLD RX406	42.0	--	--	12.0	--	--	5.1	--	--
BETAGOLD INGRID	42.0	44.5	--	10.8	11.3	--	4.6	5.1	--
KING K416	41.8	42.5	46.4	12.5	10.7	10.2	5.2	4.5	4.7
CARGILL 3477	41.6	42.4	--	10.4	10.4	--	4.4	4.4	--
RENK R129	41.2	--	--	11.5	--	--	4.8	--	--
BETAGOLD KARLA	40.8	--	--	12.2	--	--	5.0	--	--
GLENN-GARNO 852X	40.5	--	--	12.5	--	--	5.0	--	--
WOLVERINE W156	40.3	43.7	49.5	10.6	11.3	10.8	4.3	5.0	5.3
ASGROW/O'S GOLD RX337	39.3	--	--	10.1	--	--	4.0	--	--
GREAT LAKES GL-482	38.6	40.0	--	14.8	14.5	--	5.7	5.8	--
SUPER CROST 2445	38.5	--	--	13.0	--	--	5.0	--	--
COUNTRYMARK C343X	38.3	41.7	--	12.0	12.2	--	4.6	5.1	--
AMCORN PSX 3333	38.3	--	--	10.6	--	--	4.1	--	--
DAIRYLAND DX1095	38.1	42.0	--	13.0	12.8	--	4.9	5.4	--
GLENN-GARNO 888	38.1	40.5	46.2	11.1	12.6	11.8	4.2	5.1	5.4
GREAT LAKES GL-420	37.8	39.6	--	13.0	13.1	--	4.9	5.2	--
KING K4422	37.5	37.6	--	11.1	12.4	--	4.2	4.7	--
DAIRYLAND DX1087	37.5	--	--	11.5	--	--	4.3	--	--
GLENN-GARNO 831X	37.5	--	--	9.9	--	--	3.7	--	--
AMCORN PSX5555	37.5	--	--	12.2	--	--	4.6	--	--
GOLDEN HARVEST H-2343	37.2	37.2	--	9.4	10.7	--	3.5	4.0	--
PIONEER 3737	37.0	38.3	44.1	10.6	11.8	11.2	3.9	4.5	4.9
GRIES X-305	36.9	--	--	8.9	--	--	3.3	--	--
KING K448	36.6	--	--	11.8	--	--	4.3	--	--
CARGILL 4227	36.6	--	--	11.5	--	--	4.2	--	--
TERRA TR164E	36.5	--	--	13.4	--	--	4.9	--	--
DAIRYLAND 1103	36.5	36.9	42.2	13.2	14.5	13.0	4.8	5.3	5.3
JACQUES 4900	36.3	40.5	--	13.9	13.3	--	5.1	5.4	--
PIONEER 3772	36.2	--	--	13.7	--	--	5.0	--	--
MAUMEE VALLEY MV630	36.2	--	--	12.2	--	--	4.4	--	--
NORTHROP KING S3306	35.9	--	--	8.5	--	--	3.1	--	--
WOLVERINE W163	35.8	36.8	41.9	14.6	15.2	13.7	5.2	5.6	5.5
TERRA TR975	35.8	38.7	--	12.5	13.2	--	4.5	5.1	--
DAIRYLAND DX1097	35.7	40.4	45.4	10.8	12.2	10.6	3.9	5.0	4.7
DAIRYLAND DX1194	35.6	--	--	13.0	--	--	4.6	--	--
TERRA TR32	35.6	36.4	42.9	11.3	11.1	10.7	4.0	4.0	4.5

(continued below)

TABLE 15 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Huron County Trial--Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
NORTHROP KING N6321	30.4	33.9	--	11.5	13.5	--	3.5	4.6	--
DAIRYLAND DX1107	30.4	33.5	39.6	12.0	14.6	13.6	3.7	5.0	5.3
NORTHROP KING S5987 WX	30.2	--	--	10.7	--	--	3.2	--	--
GLENN-GARNO 1007	30.1	34.5	--	17.3	16.2	--	5.2	5.5	--
DAIRYLAND DX1104	29.8	--	--	11.3	--	--	3.4	--	--
GREAT LAKES GL-582	29.7	32.3	--	19.2	17.8	--	5.7	5.7	--
RENK RK76	29.7	29.6	34.3	13.9	13.2	13.8	4.1	3.9	4.7
SUPER CROST 2989	29.2	33.6	--	13.7	14.6	--	4.0	4.9	--
RENK RK64	28.8	31.0	38.2	12.2	11.3	11.2	3.6	3.5	4.3
GLENN-GARNO 1008	28.8	--	--	13.9	--	--	4.1	--	--
RENK RK68	28.5	31.2	37.1	13.2	13.2	12.1	3.8	4.1	4.3
CARGILL SX269	28.4	--	--	21.0	--	--	6.0	--	--
DEKALB-PFIZER DK535	27.7	--	--	12.0	--	--	3.3	--	--
TERRA TR59	27.7	--	--	18.4	--	--	5.1	--	--
COUNTRYMARK C660X	27.3	--	--	13.7	--	--	3.8	--	--
GREAT LAKES GL-599	27.2	--	--	21.7	--	--	5.9	--	--
RENK RK627	26.7	--	--	13.0	--	--	3.5	--	--
MAUMEE VALLEY MV762	26.4	--	--	11.8	--	--	3.2	--	--
MAUMEE VALLEY MV812	26.3	--	--	20.5	--	--	5.4	--	--
AVERAGE	34.3	36.6	41.6	12.4	12.9	12.0	4.2	4.7	4.9
RANGE	26.3	29.6	34.3	8.5	10.4	10.0	3.0	3.5	4.2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	43.4	44.5	49.5	21.7	17.8	15.9	6.0	6.0	6.2
LEAST SIGNIFICANT DIFFERENCE	3.4	2.7	2.5	2.0	1.6	1.3	0.6	0.5	0.5

	1988	1987	1986
PLANTED	May 5	April 30	May 1
HARVESTED	September 8	September 9	October 10
SOIL TYPE	Kilmanagh Loam	Kilmanagh Loam	Kilmanagh Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	20,100	18,900	20,000
ROWS	30	30	30
FERTILIZER	172-62-99	177-62-69 +ZN	148-62-99
SOIL TEST: pH	6.1	8.8	7.7
	P 127 (very high)	140 (very high)	81 (high)
	K 263 (high)	325 (very high)	160 (medium)

FARM COOPERATOR: William McCrea, Bad Axe

COUNTY EXTENSION DIRECTOR: Jim LeCureaux, Bad Axe



TABLE 15 (CONTINUED) NORTH CENTRAL MICHIGAN ZONE 3  
Huron County Trial--Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GLENN-GARNO 931X	35.5	--	--	12.5	--	--	4.4	--	--
NORTHROP KING S4590	35.4	37.5	--	11.3	10.9	--	4.0	4.1	--
DEKALB-PFIZER DK524	35.3	36.5	41.6	13.0	14.0	13.5	4.6	5.1	5.6
PIONEER 3751	35.3	--	--	10.7	--	--	3.8	--	--
ANDERSONS PSX99	34.5	38.2	42.5	10.7	11.2	10.4	3.7	4.3	4.4
TERRA TR880	34.2	--	--	13.4	--	--	4.6	--	--
DAIRYLAND 1101	34.2	--	--	12.0	--	--	4.1	--	--
RENK RK505	34.1	--	--	12.5	--	--	4.3	--	--
COUNTRYMARK C565X	33.8	35.9	--	10.4	13.2	--	3.5	4.8	--
GLENN-GARNO 1010	33.8	--	--	13.4	--	--	4.6	--	--
CARGILL 5157	33.4	--	--	13.4	--	--	4.5	--	--
JACQUES 5700	33.3	--	--	11.3	--	--	3.8	--	--
MAUMEE VALLEY MV509	33.3	--	--	11.3	--	--	3.8	--	--
MAUMEE VALLEY MV611	33.2	--	--	13.7	--	--	4.6	--	--
GLENN-GARNO EX107X	33.2	--	--	9.2	--	--	3.0	--	--
GREAT LAKES GL-566	33.0	--	--	13.6	--	--	4.5	--	--
DEKALB-PFIZER DK547	32.4	--	--	18.1	--	--	5.8	--	--
FUNK G-4299	32.3	--	--	13.0	--	--	4.2	--	--
ASGROW/O'S GOLD RX498	32.2	34.1	--	13.4	12.1	--	4.3	4.1	--
FUNK G-4309	32.1	--	--	16.2	--	--	5.2	--	--
GRIES X-580	32.1	35.7	--	13.9	13.8	--	4.5	4.9	--
PIONEER 3475	32.1	34.7	40.1	13.1	14.3	13.3	4.2	5.0	5.3
DAIRYLAND DX1190	32.1	--	--	15.6	--	--	5.0	--	--
DAIRYLAND DX1106	32.0	32.8	38.9	13.0	13.1	12.0	4.2	4.4	4.6
RENK R138	32.0	34.3	--	10.9	11.7	--	3.5	4.0	--
NORTHROP KING N4545	31.9	--	--	13.8	--	--	4.4	--	--
PIONEER 3585	31.8	--	--	12.4	--	--	3.9	--	--
GLENN-GARNO 1003	31.8	35.4	--	12.0	14.3	--	3.8	5.1	--
GLENN-GARNO 10747X	31.5	--	--	17.9	--	--	5.6	--	--
KING K5574	31.4	--	--	12.7	--	--	4.0	--	--
GRIES X-550	31.3	--	--	11.1	--	--	3.5	--	--
GOLDEN HARVEST H-2344	31.3	34.6	42.7	13.0	13.1	12.0	4.1	4.5	5.0
PIONEER 3779	31.2	36.6	44.1	12.7	10.8	10.0	4.0	3.9	4.2
TERRA TR1040	31.2	34.5	--	13.5	13.8	--	4.3	4.8	--
GLENN-GARNO 107A5X	31.1	--	--	11.1	--	--	3.5	--	--
GREAT LAKES GL-509	30.9	34.1	--	13.9	12.2	--	4.3	4.1	--
GREAT LAKES GL-579	30.9	33.9	39.9	17.2	17.6	15.9	5.3	6.0	6.2
RENK R148	30.9	34.7	39.3	12.5	11.6	11.1	3.8	3.9	4.2
ANDERSONS PSX103	30.9	33.8	38.9	14.1	12.1	12.2	4.4	4.0	4.7
NORTHROP KING S5340	30.5	33.1	39.4	10.8	11.9	11.9	3.4	4.0	4.7

(continued top right)

TABLE 16 NORTH CENTRAL MICHIGAN ZONE 3  
Isabella County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
	GLENN-GARNO 853X	21.4	--	--	57.9	--	--	0.0	--
GLENN-GARNO 852X	21.8	--	--	73.6	--	--	1.5	--	--
*GREAT LAKES GL-420	22.1	20	--	83.0	117	--	2.3	2	--
GREAT LAKES 86645	22.5	--	--	56.6	--	--	0.0	--	--
PICKSEED 83092	22.5	--	--	54.7	--	--	2.3	--	--
GLENN-GARNO 831X	22.7	--	--	48.6	--	--	3.5	--	--
KING K416	23.1	21	22	75.7	106	118	3.7	4	3
GOLDEN HARVEST H-2344	23.4	21	--	46.8	89	--	3.7	4	--
GRIES X305	23.7	--	--	49.7	--	--	5.1	--	--
CALLAHAN 20051X	23.7	--	--	54.7	--	--	0.8	--	--
PRO-SEED 83091	23.8	--	--	51.1	--	--	2.6	--	--
PICKSEED 5577	23.8	--	--	76.3	--	--	0.9	--	--
*AMCORN PSX3333	23.9	--	--	85.7	--	--	0.0	--	--
CARGILL 3477	24.0	--	--	80.2	--	--	1.5	--	--
*PAYCO 448	24.0	--	--	85.8	--	--	0.8	--	--
PIONEER 3737	24.2	21	22	76.8	111	120	4.7	6	4
ASGROW/O'S GOLD RX406	24.2	21	--	80.2	116	--	1.5	3	--
BETAGOLD INGRID	24.5	21	22	62.5	104	117	1.8	3	4
GRIES X550	24.8	--	--	62.2	--	--	0.0	--	--
ANDERSONS PSX 85	25.0	22	21	67.8	101	107	1.5	3	3
ANDERSONS PSX 93	25.1	22	22	61.0	100	108	1.5	3	2
ANDERSONS PSX 99	25.1	--	--	74.3	--	--	3.8	--	--
WOLVERINE X187	25.2	--	--	67.3	--	--	1.6	--	--
CARGILL 3027	25.2	--	--	75.6	--	--	2.4	--	--
DAIRYLAND DX1097	25.3	23	22	47.0	91	107	3.8	5	4
ASGROW/O'S GOLD RX337	25.4	--	--	44.8	--	--	1.2	--	--
CARGILL 3327	25.4	--	--	75.7	--	--	0.0	--	--
SUPER CROST 1637	25.5	--	--	64.4	--	--	0.0	--	--
JACQUES 4900	25.5	22	--	77.0	110	--	1.6	3	--
CARGILL 76009	25.5	--	--	76.5	--	--	4.4	--	--
PIONEER 3772	25.5	--	--	63.3	--	--	2.6	--	--
PAYCO SX686	25.5	22	--	49.5	101	--	4.7	4	--
DAIRYLAND DX1190	25.6	--	--	45.6	--	--	0.9	--	--
NORTHROP KING N3624	25.7	--	--	68.7	--	--	3.2	--	--
*FUNK G-4299	26.0	--	--	81.9	--	--	3.8	--	--
BETAGOLD ERICKA	26.0	22	--	51.3	81	--	6.7	5	--
DAIRYLAND DX1194	26.0	--	--	68.3	--	--	3.7	--	--
GLENN-GARNO 900X	26.0	23	--	65.5	112	--	1.5	2	--
CALLAHAN 20046X	26.1	--	--	67.9	--	--	1.5	--	--
KING K4422	26.2	23	--	65.0	108	--	5.1	5	--

(continued next page)



TABLE 16 (CONTINUED) NORTH CENTRAL MICHIGAN  
Isabella County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
JACQUES 4170	26.4	--	--	61.9	--	--	0.0	--	--
WOLVERINE W156	26.4	23	23	75.1	114	126	0.0	3	3
GLENN-GARNO 888	26.4	23	22	50.8	94	103	4.3	3	2
GLENN-GARNO 931X	26.5	--	--	78.7	--	--	3.2	--	--
*PIONEER 3744	26.6	23	23	87.1	119	128	3.3	3	2
GARST 8808	26.6	22	--	58.9	104	--	6.3	5	--
*DAIRYLAND DX1095	26.6	23	--	94.9	122	--	2.4	3	--
RENK R138	26.6	--	--	75.2	--	--	7.1	--	--
*PAYCO SX687	26.6	--	--	88.3	--	--	6.3	--	--
*PIONEER 3751	26.7	--	--	99.4	--	--	1.5	--	--
*GREAT LAKES GL-482	26.8	23	--	95.2	129	--	1.6	2	--
GOLDEN HARVEST H-2343	26.8	23	--	79.3	103	--	6.2	4	--
DAIRYLAND DX1087	26.9	--	--	55.6	--	--	0.8	--	--
*DEKALB-PFIZER DX524	27.1	23	24	87.1	118	129	4.7	3	2
*CARGILL 4227	27.1	--	--	95.6	--	--	2.4	--	--
*WOLVERINE X199	27.3	--	--	84.7	--	--	1.5	--	--
WOLVERINE W163	27.3	23	24	71.9	112	124	0.8	1	2
NORTHTRUP KING PX9214	27.3	23	23	51.7	100	109	7.0	5	4
DAIRYLAND DX1101	27.5	--	--	55.3	--	--	5.1	--	--
GLENN-GARNO 900	27.5	23	--	57.8	95	--	0.0	2	--
*FUNK G-4309	27.7	--	--	91.4	--	--	0.0	--	--
*PIONEER 3585	28.0	--	--	91.4	--	--	2.3	--	--
DEKALB-PFIZER DK535	28.4	--	--	65.1	--	--	0.9	--	--
*GREAT LAKES GL-509	28.4	25	--	84.6	113	--	1.6	2	--
*DAIRYLAND DX1104	28.5	--	--	88.7	--	--	0.0	--	--
*PAYCO 648	28.5	--	--	84.2	--	--	3.1	--	--
*KING K448	28.8	--	--	94.0	--	--	0.8	--	--
GLENN-GARNO 955	29.0	--	--	68.4	--	--	0.0	--	--
*DAIRYLAND DX1103	29.4	25	25	93.7	122	132	0.8	2	2
*GLENN-GARNO EX107X	29.4	--	--	83.4	--	--	1.6	--	--
*AMCORN PSX5555	29.5	--	--	92.5	--	--	4.0	--	--
*NORTHTRUP KING N4350	29.9	--	--	85.3	--	--	1.6	--	--
RENK RK505	29.9	--	--	78.0	--	--	0.0	--	--
NORTHTRUP KING N4545	30.2	--	--	69.3	--	--	1.7	--	--
GLENN-GARNO 107A5X	30.2	--	--	57.4	--	--	1.6	--	--
PICKSEED EX.41-703	30.3	--	--	56.5	--	--	1.7	--	--
*GLENN-GARNO 1007	30.4	--	--	85.3	--	--	1.6	--	--
DEKALB-PFIZER DK547	30.5	--	--	72.6	--	--	3.4	--	--
SUPER CROST 2445	30.6	--	--	59.0	--	--	1.5	--	--
KING K5574	31.0	--	--	77.4	--	--	1.7	--	--

(continued top right)

TABLE 16 (CONTINUED) NORTH CENTRAL MICHIGAN  
Isabella County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GLENN-GARNO 1008	31.2	--	--	79.2	--	--	0.8	--	--
GRIES X580	31.3	26	--	67.8	103	--	0.0	2	--
RUPP XR1557	31.3	--	--	62.4	--	--	0.8	--	--
RUPP XR1527	31.4	--	--	80.2	--	--	1.5	--	--
PICKSEED 8877	31.4	--	--	59.0	--	--	0.9	--	--
*GLENN-GARNO 10747X	31.4	--	--	87.4	--	--	1.5	--	--
CALLAHAN 19929X	31.6	--	--	79.8	--	--	4.7	--	--
PICKSEED 8898	31.7	26	--	77.9	114	--	0.8	3	--
GLENN-GARNO 1003	32.1	--	--	64.9	--	--	0.8	--	--
AVERAGE	26.9	23	23	71.6	107	118	2.3	3	3
RANGE	21.4	20	21	44.8	81	103	0.0	1	2
	32.1	26	25	99.4	129	132	7.1	6	4
LEAST SIGNIFICANT DIFFERENCE	2.0	1.4	1.0	9.7	8	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 7	May 5	May 5
HARVESTED	November 1	November 23	November 3
SOIL TYPE	Ithaca loam	Ithaca loam	Ithaca loam
PREVIOUS CROP	Wheat	Soybeans	Navy beans
POPULATION	20,900	22,000	20,100
ROWS	30"	30"	30"
FERTILIZER	121-60-71	130-80-134 + Zinc	136-81-135 + Zinc
SOIL TEST: pH	6.5	7.1	6.7
P	140 (very high)	80 (high)	94 (high)
K	380 (very high)	325 (very high)	363 (very high)

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

COUNTY EXTENSION DIRECTOR: Dan Rossmann (1988), Lyle Thompson (1987, 1986), Mt. Pleasant



TABLE 17

NORTH CENTRAL MICHIGAN  
Montcalm County Trial - Irrigated vs Not Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE						% STALK LODGING					
	1988	2	3	1988	1988	2	2	3	3	1988	1988	2	2	3	3
		YR	YR		NOT	YR	YR	YR	YR		YR	NOT	YR	YR	YR
IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR	IRR
GLENN-GARNO 831X	18.9	--	--	150.2	59.8	--	--	--	--	5.2	4.3	--	--	--	--
DAIRYLAND DX1087	19.3	--	--	153.3	54.4	--	--	--	--	19.6	1.5	--	--	--	--
NORTHROP KING N3624	20.3	--	--	179.0	58.1	--	--	--	--	0.7	1.5	--	--	--	--
DAIRYLAND DX1190	21.0	--	--	161.9	49.0	--	--	--	--	3.7	0.0	--	--	--	--
GLENN-GARNO 852X	21.1	--	--	178.7	48.2	--	--	--	--	6.5	0.8	--	--	--	--
KING K416	21.2	20	21	153.4	56.6	161	69	167	88	2.8	1.5	6	1	4	2
GARST 8808	21.2	21	--	188.4	60.5	167	58	--	--	0.7	0.0	4	0	--	--
DAIRYLAND DX1095	21.2	20	--	172.5	55.4	157	68	--	--	5.1	1.5	8	2	--	--
CARGILL 3027	21.3	--	--	155.8	51.4	--	--	--	--	9.6	0.0	--	--	--	--
ANDERSONS PSX85	21.6	--	--	177.1	57.8	--	--	--	--	2.3	0.0	--	--	--	--
GLENN-GARNO EX851	21.6	--	--	154.5	57.7	--	--	--	--	0.7	0.7	--	--	--	--
GLENN-GARNO 853X	21.6	--	--	164.8	47.8	--	--	--	--	1.4	0.0	--	--	--	--
GREAT LAKES GL-420	21.9	21	--	199.7	70.5	191	80	--	--	5.1	0.0	6	0	--	--
GREAT LAKES 86645	21.9	--	--	155.1	50.7	--	--	--	--	2.9	0.7	--	--	--	--
GLENN-GARNO 888	21.9	20	21	179.2	68.5	176	77	180	97	2.1	0.0	4	1	4	4
PICKSEED 5577	22.2	--	--	172.6	48.5	--	--	--	--	3.1	0.7	--	--	--	--
ASGROW/O'S GOLD RX406	22.4	--	--	191.3	56.0	--	--	--	--	2.9	0.0	--	--	--	--
COUNTRYMARK C343X	22.4	21	--	177.4	61.5	160	71	--	--	7.4	0.8	5	1	--	--
PIONEER 3737	22.5	21	22	200.5	54.3	195	73	201	103	3.7	1.5	7	1	5	2
CARGILL 859	22.5	21	22	170.9	53.3	180	76	193	106	3.6	4.5	4	3	3	4
DAIRYLAND DX1097	22.5	21	21	151.4	46.4	147	53	162	84	8.0	0.8	10	1	7	4
GLENN-GARNO 900	22.5	21	--	166.8	63.2	174	70	--	--	0.8	0.9	3	1	--	--
GLENN-GARNO 900X	22.5	21	--	186.4	69.5	189	82	--	--	4.3	2.3	5	2	--	--
JACQUES 4170	22.6	--	--	196.5	56.4	--	--	--	--	3.5	0.7	--	--	--	--
RENK RK627	22.6	--	--	173.6	61.2	--	--	--	--	0.7	0.0	--	--	--	--
PICKSEED 5575	22.6	21	22	174.2	63.2	177	76	185	104	1.5	2.3	3	1	2	4
PIONEER 3744	22.8	22	22	189.2	68.5	189	80	197	107	2.2	3.7	4	2	4	2
GEORGES 7092	22.9	--	--	150.4	61.1	--	--	--	--	4.9	0.9	--	--	--	--
GOLDEN HARVEST H-2404	23.3	--	--	191.1	68.8	--	--	--	--	1.4	0.0	--	--	--	--
DEKALB-PFIZER DK524	23.4	22	23	194.2	69.3	191	83	196	111	2.1	0.0	2	0	1	2
CARGILL 3327	23.4	--	--	182.8	61.7	--	--	--	--	2.1	0.7	--	--	--	--
CALLAHAN 20046X	23.6	--	--	173.8	66.0	--	--	--	--	4.5	0.8	--	--	--	--
*+NORTHROP KING N4350	23.7	--	--	209.4	74.7	--	--	--	--	1.4	0.0	--	--	--	--
*+FUNK G-4309	23.8	--	--	217.9	77.6	--	--	--	--	2.9	0.0	--	--	--	--
GLENN-GARNO 931X	23.8	--	--	154.7	53.5	--	--	--	--	7.1	2.3	--	--	--	--
DAIRYLAND DX1101	23.9	--	--	161.3	57.3	--	--	--	--	6.4	0.8	--	--	--	--
AMCORN PSX3333	23.9	--	--	154.6	65.2	--	--	--	--	3.7	0.7	--	--	--	--
*+WOLVERINE W163	24.1	22	23	208.2	73.9	199	85	198	105	1.4	2.9	2	1	3	2
ANDERSONS PSX99	24.1	--	--	168.8	60.2	--	--	--	--	4.4	0.9	--	--	--	--
ASGROW/O'S GOLD RX498	24.2	22	--	178.9	52.1	178	67	--	--	3.9	1.5	4	1	--	--



TABLE 17 (CONTINUED)

## NORTH CENTRAL MICHIGAN

ZONE 3

Montcalm County Trial - Irrigated vs Not Irrigated  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE						% STALK LODGING					
	1988	2	3	1988	2		3		1988	2		3			
		YR	YR		1988	YR	YR	YR		YR	YR	YR	YR		
					IRR	NOT	IRR	NOT		IRR	NOT	IRR	NOT		
**KING K4422	24.3	22	--	212.8	71.9	177	73	--	--	2.9	0.8	6	1	--	--
PIONEER 3475	24.5	--	--	204.4	69.7	--	--	--	--	0.0	0.0	--	--	--	--
**PIONEER 3751	24.5	--	--	205.9	72.3	--	--	--	--	5.3	1.4	--	--	--	--
GEORGE'S 7095	24.6	--	--	190.5	65.6	--	--	--	--	6.6	2.2	--	--	--	--
PICKSEED EX.41-703	24.7	--	--	164.2	48.9	--	--	--	--	1.5	0.7	--	--	--	--
SUPER CROST EXP.8105	24.8	--	--	183.4	60.5	--	--	--	--	0.0	2.2	--	--	--	--
GLENN-GARNO 955	24.8	--	--	197.0	69.6	--	--	--	--	3.5	0.7	--	--	--	--
**GREAT LAKES GL-482	24.9	23	--	234.8	79.4	219	89	--	--	5.1	1.4	5	1	--	--
**PIONEER 3585	25.3	--	--	242.6	79.7	--	--	--	--	2.1	0.0	--	--	--	--
**CARGILL 4227	25.5	--	--	223.1	75.3	--	--	--	--	4.3	0.7	--	--	--	--
**GLENN-GARNO 1007	25.5	24	24	215.4	79.4	213	91	217	117	3.7	0.0	3	0	3	1
+GLENN-GARNO EX107X	25.6	--	--	202.2	74.6	--	--	--	--	2.1	1.5	--	--	--	--
JACQUES 5700	25.7	--	--	168.9	61.6	--	--	--	--	4.5	0.0	--	--	--	--
AMCORN PSX 5555	25.7	--	--	194.4	69.7	--	--	--	--	3.6	2.3	--	--	--	--
CALLAHAN C743	25.7	--	--	181.0	68.4	--	--	--	--	2.8	3.8	--	--	--	--
SUPER CROST 2445	26.0	--	--	195.7	65.0	--	--	--	--	4.2	1.6	--	--	--	--
**GREAT LAKES GL-509	26.0	24	--	238.2	84.5	224	91	--	--	3.6	0.0	6	0	--	--
**DAIRYLAND DX 1107	26.0	25	--	206.6	79.2	197	88	--	--	2.8	0.7	4	1	--	--
FUNK G-4326	26.2	--	--	200.9	53.0	--	--	--	--	2.3	0.0	--	--	--	--
**NORTHROP KING N4545	26.2	--	--	205.5	73.6	--	--	--	--	0.0	0.0	--	--	--	--
PICKSEED 8898	26.2	--	--	193.8	52.6	--	--	--	--	3.6	0.0	--	--	--	--
**DEKALB-PFIZER DK547	26.3	--	--	207.3	71.9	--	--	--	--	3.0	0.7	--	--	--	--
**KING K 5574	26.3	--	--	217.8	75.8	--	--	--	--	1.4	0.0	--	--	--	--
**GOLDEN HARVEST H-2410	26.7	--	--	235.1	85.0	--	--	--	--	5.8	1.5	--	--	--	--
GOLDEN HARVEST H-2438	26.7	--	--	163.2	53.1	--	--	--	--	7.9	2.9	--	--	--	--
PICKSEED 8877	26.7	--	--	190.9	54.5	--	--	--	--	3.7	3.0	--	--	--	--
**RENK RK64	26.8	--	--	219.0	74.6	--	--	--	--	3.5	0.7	--	--	--	--
**DEKALB-PFIZER DK535	26.9	--	--	207.4	72.2	--	--	--	--	2.2	0.0	--	--	--	--
KING K448	27.0	--	--	162.5	56.2	--	--	--	--	1.5	0.0	--	--	--	--
GLENN-GARNO 1003	27.1	24	--	179.0	58.8	176	69	--	--	1.4	0.0	2	0	--	--
**DAIRYLAND DX1103	27.2	25	25	206.0	72.1	191	74	187	94	1.5	1.5	2	1	2	3
**ASGROW/O'S GOLD RX626	27.4	26	--	206.3	73.3	180	69	--	--	0.7	0.0	2	0	--	--
DAIRYLAND DX1106	27.9	--	--	198.6	61.7	--	--	--	--	3.0	0.7	--	--	--	--
**GLENN-GARNO 1008	28.2	--	--	219.7	82.3	--	--	--	--	0.8	1.4	--	--	--	--
**ASGROW/O'S GOLD RX578	28.4	26	--	209.0	74.6	205	84	--	--	0.0	0.8	2	0	--	--
CALLAHAN 19929X	29.1	--	--	176.2	59.1	--	--	--	--	0.8	2.3	--	--	--	--



TABLE 17 (CONTINUED)

NORTH CENTRAL MICHIGAN  
 Montcalm County Trial - Irrigated vs Not Irrigated  
 ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE						% STALK LODGING					
	1988	2	3	1988	1988	2	2	3	3	1988	1988	2	2	3	3
		YR	YR		NOT	YR	YR	YR	YR		NOT	YR	YR	YR	YR
		IRR	IRR	IRR		IRR		IRR		IRR		IRR		IRR	
AVERAGE	24.2	22	22	187.7	64.1	184	76	189	101	3.3	1.0	4	1	3	3
RANGE	18.9	20	21	150.2	46.4	147	53	162	84	0.0	0.0	2	0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	29.1	26	25	242.6	85.0	224	91	217	117	19.6	4.5	10	3	7	4
LEAST SIGNIFICANT DIFFERENCE	1.9	1.3	1.0	17.4	7.3	12	7	10	6	--	--	--	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD, IRRIGATED, IN 1988

+SIGNIFICANTLY BETTER THAN AVERAGE YIELD, NOT IRRIGATED, IN 1988

	1988	1987	1986
PLANTED	May 3	May 2	April 30
HARVESTED	October 19	October 20-21	November 1-3
SOIL TYPE	Montcalm-McBride sandy loam	Montcalm-McBride sandy loam	Montcalm-McBride sandy loam
PREVIOUS CROP	Potatoes	Potatoes	Sorghum-sudan
POPULATION	22,200	22,200	22,300
ROWS	30"	30"	30"
FERTILIZER	247-123-123	253-135-135	253-135-135
IRRIGATION	13.8 inches	6.8 inches	5.25 inches
SOIL TEST: pH	6.0	6.1	6.1
P	501 (very high)	400 (very high)	576 (very high)
K	305 (very high)	193 (medium)	337 (very high)

FARM COOPERATOR: Richard Kitchen, Montcalm Research Farm, Entrican

COUNTY EXTENSION DIRECTOR: Don Smucker, Stanton



TABLE 18

NORTH CENTRAL MICHIGAN  
Oceana County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GLENN-GARNO 831X	19.0	--	--	102.9	--	--	7.0	--	--
DAIRYLAND DX1080	19.6	19	--	97.5	108	--	4.8	4	--
GRIES X305	19.7	--	--	134.2	--	--	7.0	--	--
PAYCO 408	19.7	--	--	96.9	--	--	8.4	--	--
ASGROW/O'S GOLD RX337	19.8	--	--	96.3	--	--	16.4	--	--
CALLAHAN 20050X	19.9	--	--	94.1	--	--	15.8	--	--
KING K4422	20.0	20	--	120.0	133	--	6.5	4	--
DAIRYLAND DX1181	20.0	--	--	94.8	--	--	12.6	--	--
GLENN-GARNO 853X	20.0	--	--	125.0	--	--	10.2	--	--
DAIRYLAND DX1186	20.1	--	--	98.5	--	--	14.9	--	--
CARGILL 2227	20.2	--	--	89.4	--	--	20.0	--	--
PIONEER 3779	20.3	19	20	132.9	155	140	3.5	4	4
CARGILL 3477	20.3	--	--	126.3	--	--	6.3	--	--
SUPER CROST 1637	20.5	--	--	95.4	--	--	12.7	--	--
*GARST 8882	20.5	20	--	152.1	157	--	6.8	6	--
*GOLDEN HARVEST H-2344	20.5	20	21	146.6	139	135	7.1	5	4
GLENN-GARNO 900	20.5	20	21	131.9	151	143	5.5	5	4
AMCORN PSX3333	20.5	--	--	114.1	--	--	9.9	--	--
GLENN-GARNO 852X	20.6	--	--	117.5	--	--	7.6	--	--
*GREAT LAKES GL-420	20.7	20	--	154.6	167	--	2.0	2	--
ASGROW/O'S GOLD RX406	20.7	20	--	133.9	154	--	7.4	6	--
PICKSEED 5575	20.7	20	21	130.0	155	133	15.2	8	8
*PIONEER 3737	20.8	20	21	161.6	158	147	2.2	3	3
CARGILL 3027	20.8	--	--	137.4	--	--	4.7	--	--
CALLAHAN 20051X	20.9	--	--	123.6	--	--	7.1	--	--
PICKSEED 5577	21.0	--	--	109.4	--	--	4.3	--	--
NORTHROP KING N3624	21.1	--	--	119.7	--	--	6.4	--	--
*FUNK G-4299	21.2	--	--	158.3	--	--	4.8	--	--
DAIRYLAND DX1095	21.2	20	--	122.3	142	--	10.6	6	--
*GLENN-GARNO EX851	21.2	--	--	147.5	--	--	4.9	--	--
PIONEER 3751	21.3	--	--	140.3	--	--	1.5	--	--
CARGILL 3327	21.3	--	--	136.1	--	--	4.8	--	--
PAYCO SX687	21.3	--	--	106.3	--	--	10.2	--	--
GRIES X550	21.4	--	--	110.7	--	--	1.4	--	--
*CARGILL 76009	21.5	--	--	154.0	--	--	3.5	--	--
PIONEER 3744	21.5	21	22	138.5	156	144	9.5	5	4
GOLDEN HARVEST H-2343	21.7	21	--	131.6	152	--	5.6	5	--
GLENN-GARNO 888	21.8	20	21	104.7	135	121	7.7	7	5
*DEKALB-PFIZER DK535	22.0	--	--	160.7	--	--	0.8	--	--
*FUNK G-4309	22.0	--	--	170.3	--	--	6.2	--	--

36

(continued below)

TABLE 18 (CONTINUED)

NORTH CENTRAL MICHIGAN  
Oceana County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
AVERAGE	21.6	21	21	130.7	150	137	6.6	5	5
RANGE	19.0 TO	19 TO	20 TO	89.4 TO	108 TO	121 TO	0.7 TO	2 TO	3 TO
	24.3	22	22	170.8	167	147	20.0	8	8
LEAST SIGNIFICANT DIFFERENCE	1.5	1.0	0.8	14.1	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 12	May 4	May 16
HARVESTED	November 1	October 20, 28	November 14
SOIL TYPE	Montcalm loamy sand & Russeau fine sand	Montcalm loamy sand & Russeau fine sand	Montcalm loamy sand & Russeau fine sand
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	22,000	22,100	21,800
ROWS	30"	30"	30"
FERTILIZER	122-84-142 + Zinc	120-76-20	214-48-14
SOIL TEST: pH	6.4	6.5	6.8
P	74 (high)	105 (high)	392 (very high)
K	188 (medium)	122 (low)	434 (very high)

FARM COOPERATOR: Arthur and Jim Ramthun, Montague

COUNTY EXTENSION DIRECTOR: Ed Strong, Hart



TABLE 18 (CONTINUED) NORTH CENTRAL MICHIGAN  
Oceana County Trial  
ZONE 3  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
JACQUES 4900	22.0	21	--	121.3	151	--	6.9	5	--
*GLENN-GARNO 900X	22.1	22	--	153.2	164	--	2.9	5	--
*CALLAHAN C728	22.1	21	--	145.4	153	--	7.0	5	--
CALLAHAN 20046X	22.2	--	--	112.6	--	--	5.7	--	--
*DEKALB-PFIZER DK524	22.5	--	--	158.4	--	--	2.2	--	--
-----									
*PICKSEED 8898	22.6	22	--	151.8	165	--	4.4	3	--
PAYCO 448	22.7	--	--	129.0	--	--	4.9	--	--
PAYCO SX686	22.7	22	--	125.6	152	--	6.0	4	--
GLENN-GARNO 955	22.7	--	--	131.3	--	--	2.1	--	--
*NORTHROP KING N4545	22.8	--	--	154.6	--	--	4.2	--	--
-----									
JACQUES 4170	23.0	--	--	129.7	--	--	2.9	--	--
*GREAT LAKES GL-482	23.0	--	--	170.8	--	--	3.4	--	--
PICKSEED EX.41-703	23.0	--	--	129.5	--	--	4.3	--	--
KING K416	23.1	21	22	141.0	145	129	5.4	5	4
*DEKALB-PFIZER DK547	23.2	--	--	149.2	--	--	0.7	--	--
-----									
GLENN-GARNO 931X	23.2	--	--	120.5	--	--	8.4	--	--
GRIES X580	23.3	22	--	142.0	160	--	7.4	4	--
*KING K5574	23.3	--	--	158.9	--	--	6.8	--	--
PIONEER 3585	23.6	--	--	127.8	--	--	4.2	--	--
AMCORN PSX5555	23.6	--	--	144.0	--	--	2.8	--	--
-----									
*KING K448	23.7	--	--	149.6	--	--	4.9	--	--
*PICKSEED 8877	24.3	--	--	147.4	--	--	3.5	--	--

(continued top right)

TABLE 19 NORTHERN MICHIGAN  
Grand Traverse County Trial  
ZONE 4  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
PICKSEED 2600	20.6	20	--	42.6	81	--	8.3	6	--
CALLAHAN 20050X	20.7	--	--	47.8	--	--	5.6	--	--
PAYCO 248	20.8	--	--	41.8	--	--	8.1	--	--
GLENN-GARNO 831X	20.8	--	--	65.0	--	--	7.4	--	--
KING K237	21.3	22	--	60.4	79	--	2.9	3	--
-----									
CARGILL 2227	21.3	--	--	56.7	--	--	7.2	--	--
PICKSEED 2700	21.4	21	22	52.4	93	100	4.3	3	2
DAIRYLAND DX1181	21.6	--	--	46.7	--	--	6.9	--	--
GREAT LAKES GL-220	21.9	--	--	54.5	--	--	7.9	--	--
GREAT LAKES GL-320	22.4	--	--	64.7	--	--	9.2	--	--
-----									
CARGILL 809	22.5	22	22	53.1	90	103	3.8	2	4
*FUNK G-4018	22.7	--	--	77.2	--	--	5.7	--	--
KING K2204	22.7	24	24	45.0	74	97	4.3	3	2
*PICKSEED 4533	22.7	--	--	73.9	--	--	2.2	--	--
BETAGOLD ERIKA	22.9	24	--	52.4	96	--	3.8	2	--
-----									
GOLDEN HARVEST EX920	22.9	--	--	48.9	--	--	13.3	--	--
PAYCO 408	23.1	--	--	56.4	--	--	5.8	--	--
BETAGOLD GRETCHEN	23.3	--	--	51.2	--	--	8.0	--	--
*GREAT LAKES GL-365	23.6	--	--	69.1	--	--	2.3	--	--
*DAIRYLAND DX1186	23.6	--	--	69.9	--	--	3.0	--	--
-----									
GLEN-GARNO 852X	23.6	--	--	55.9	--	--	5.4	--	--
NORTHROP KING 1194	23.8	24	24	53.3	90	107	1.4	1	1
BETAGOLD GRETTEL	23.8	24	--	57.0	81	--	3.8	3	--
GOLDEN HARVEST H-2250	23.8	23	--	46.1	78	--	3.0	4	--
*JACQUES 4170	24.0	--	--	71.4	--	--	3.0	--	--
-----									
FUNK G-4027	24.1	--	--	66.2	--	--	5.0	--	--
CARGILL SX123	24.1	23	--	59.3	87	--	5.0	5	--
*GLENN-GARNO 853X	24.1	--	--	70.2	--	--	4.6	--	--
DAIRYLAND DX1095	24.4	--	--	56.3	--	--	5.9	--	--
*GLENN-GARNO 900	24.4	25	25	78.2	96	114	1.4	1	1
-----									
CARGILL 3477	24.5	--	--	60.9	--	--	3.6	--	--
*FUNK 1040X	24.6	--	--	72.0	--	--	2.9	--	--
*NORTHROP KING N3624	24.6	--	--	74.0	--	--	1.4	--	--
KING K228	24.6	--	--	57.5	--	--	3.5	--	--
CARGILL 3027	24.7	--	--	48.5	--	--	0.8	--	--
-----									
DAIRYLAND DX1080	24.8	23	--	51.8	67	--	3.8	2	--
CUSTOM FARM SEED W1351	24.9	--	--	42.0	--	--	2.2	--	--
NORTHROP KING PX9214	25.3	25	25	59.1	91	109	3.1	3	2
AMCORN PSX3333	25.3	--	--	52.1	--	--	4.2	--	--
GREAT LAKES GL-420	25.4	--	--	66.8	--	--	4.5	--	--

(continued next page)



TABLE 19 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Grand Traverse County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
*GREAT LAKES 82351	25.4	25	25	74.8	104	118	0.7	1	2
*GLENN-GARNO EX851	25.4	--	--	74.0	--	--	2.2	--	--
SUPER CROST 1637	25.5	--	--	52.3	--	--	7.6	--	--
*CUSTOM FARM SEED W4052	25.9	--	--	72.8	--	--	3.6	--	--
*GLENN-GARNO 888	26.6	26	25	69.8	88	102	2.2	1	3
*GLENN-GARNO 900X	26.8	29	--	74.2	94	--	2.2	2	--
*GLENN-GARNO 931X	27.2	--	--	80.5	--	--	1.6	--	--
PAYCO 448	27.4	--	--	55.1	--	--	7.7	--	--
FUNK G-4211	28.0	--	--	56.4	--	--	1.5	--	--
*MAUMEE VALLEY 265	28.0	--	--	71.5	--	--	1.5	--	--
*GLENN-GARNO 955	30.6	--	--	68.2	--	--	0.7	--	--
AVERAGE	24.0	24	24	60.1	87	106	4.5	3	2
RANGE	20.6	20	22	41.8	67	97	0.7	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	30.6	29	25	80.5	104	118	13.3	6	4
LEAST SIGNIFICANT DIFFERENCE	1.8	1.3	1.0	7.7	8	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

	1988	1987	1986
PLANTED	May 3	May 8	May 6
HARVESTED	October 31	October 28	November 4
SOIL TYPE	Coventry-Newaygo loam	Coventry-Newaygo loam	Coventry-Newaygo loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,600	21,900	21,400
ROWS	30"	30"	30"
FERTILIZER	75-40-75	132-38-38	123-45-75
SOIL TEST: pH	6.8	6.9	6.8
P	546 (very high)	350 (very high)	334 (very high)
K	476 (very high)	257 (high)	503 (very high)

FARM COOPERATOR: George Svec, Buckley

COUNTY AGRICULTURAL AGENT: Steve Fouch, Traverse City

TABLE 20 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Missaukee County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			TONS PER ACRE		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
AVERAGE	37.7	35.5	32.4	7.2	9.6	13.7	2.7	3.3	4.1
RANGE	29.1	29.5	30.0	4.2	6.9	11.6	1.6	2.3	3.7
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	46.7	38.3	34.5	10.6	12.7	16.2	3.8	4.0	4.2
LEAST SIGNIFICANT DIFFERENCE	3.5	2.9	2.5	3.4	2.8	2.4	0.7	0.6	0.6

	1988	1987	1986
PLANTED	May 12	May 8	May 9
HARVESTED	September 9	September 10	September 30
SOIL TYPE	Marlette Sandy Loam	Marlette Sandy Loam	Marlette Sandy Loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	20,400	20,600	20,100
ROWS	28"	28"	28"
FERTILIZER	59-30-132	131-51-146	108-31-136
SOIL TEST: pH	6.5	6.5	5.8
P	167 (very high)	98 (high)	91 (high)
K	352 (very high)	122 (low)	497 (very high)

FARM COOPERATOR: Doug Nielsen and George McGloughlin, Lake City

COUNTY EXTENSION DIRECTOR: Carl Stephens, Lake City



TABLE 20

NORTHERN MICHIGAN  
Missaukee County Trial-Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 4

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE					
				GREEN WEIGHT			DRY WEIGHT		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
PAYCO 248	46.7	--	--	7.4	--	--	3.3	--	--
GOLDEN HARVEST H-2250	42.6	37.1	--	5.4	9.1	--	2.3	3.2	--
FUNK G-4027	42.4	--	--	7.4	--	--	3.1	--	--
KING K2204	42.0	34.4	30.0	5.7	12.7	16.2	2.4	3.8	4.2
DAIRYLAND DX1080	41.7	36.0	--	6.2	8.6	--	2.7	3.0	--
KING K237	41.1	37.6	--	5.7	9.6	--	2.4	3.5	--
PAYCO 408	40.6	--	--	8.1	--	--	3.3	--	--
GLENN-GARNO 852X	40.6	--	--	8.8	--	--	3.8	--	--
PIONEER 3803	40.3	38.3	34.5	7.6	9.9	12.7	3.1	3.8	4.2
PIONEER 3779	39.7	35.3	31.4	8.8	11.8	14.3	3.5	4.0	4.2
AMCORN PSX 3333	39.1	--	--	7.8	--	--	3.0	--	--
CARGILL 3027	39.0	--	--	8.8	--	--	3.4	--	--
PAYCO 448	39.0	--	--	7.2	--	--	2.8	--	--
PIONEER 3949	38.6	36.8	33.6	5.7	8.5	11.6	2.2	3.1	3.7
GLENN-GARNO EX80	38.5	--	--	8.2	--	--	3.2	--	--
GOLDEN HARVEST EX920	38.4	--	--	4.2	--	--	1.6	--	--
PIONEER 3902	38.2	35.0	--	4.5	6.9	--	1.7	2.3	--
DAIRYLAND DX1181	37.8	--	--	5.2	--	--	2.0	--	--
DAIRYLAND DX1084	37.3	34.9	--	5.6	8.6	--	2.1	2.9	--
CARGILL 76009	36.5	--	--	9.6	--	--	3.5	--	--
GLENN-GARNO 853X	36.2	--	--	9.6	--	--	3.5	--	--
DAIRYLAND DX1186	35.1	--	--	5.6	--	--	1.9	--	--
KING K228	34.3	--	--	8.8	--	--	2.9	--	--
PICKSEED 4533	34.2	--	--	5.7	--	--	2.0	--	--
PIONEER 3751	32.5	--	--	8.8	--	--	2.8	--	--
PICKSEED 2700	31.9	29.5	--	7.1	10.1	--	2.2	2.9	--
CARGILL 842	29.8	--	--	10.6	--	--	3.2	--	--
PICKSEED 2600	29.1	--	--	7.2	--	--	2.0	--	--
GLENN-GARNO 831X	29.1	--	--	7.8	--	--	2.2	--	--

(continued top right)

TABLE 21

NORTHERN MICHIGAN  
Alpena County Trial--Grain  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
PICKSEED 2700	22.2	21	22	61.4	99	92	2.2	4	3
KING K237	22.5	22	--	68.8	105	--	6.3	3	--
KING K228	22.6	--	--	82.9	--	--	3.0	--	--
PICKSEED 2600	22.6	21	--	64.2	89	--	10.4	5	--
PIONEER 3949	22.9	--	--	65.0	--	--	4.4	--	--
DAIRYLAND DX1186	23.1	--	--	86.9	--	--	2.3	--	--
GOLDEN HARVEST H-2250	23.3	22	--	85.4	102	--	0.0	1	--
JACQUES 3110	23.4	22	--	69.4	97	--	2.3	3	--
CARGILL SX123	23.4	--	--	82.1	--	--	2.2	--	--
DAIRYLAND DX1080	23.6	22	--	98.6	113	--	6.5	4	--
DAIRYLAND DX1084	23.6	22	--	86.1	94	--	2.5	1	--
KING K2204	23.8	24	25	101.7	125	107	2.9	2	2
FUNK G-4027	23.9	--	--	91.4	--	--	2.1	--	--
ASGROW/O'S GOLD RX337	23.9	--	--	94.0	--	--	3.0	--	--
NORTHROP KING 1194	24.0	23	23	90.0	125	110	2.1	1	1
ASGROW/O'S GOLD RX406	24.0	24	--	87.9	111	--	1.4	2	--
*CARGILL 3477	24.0	--	--	113.3	--	--	3.5	--	--
*GLENN-GARNO 831X	24.0	--	--	116.5	--	--	2.1	--	--
GLENN-GARNO 852X	24.0	--	--	92.7	--	--	0.7	--	--
*PIONEER 3779	24.1	23	25	108.0	136	113	1.4	1	1
CARGILL 3027	24.1	--	--	91.5	--	--	2.1	--	--
PIONEER 3803	24.2	24	25	102.1	129	112	2.9	2	2
GLENN-GARNO 853X	24.2	--	--	78.7	--	--	2.8	--	--
PIONEER 3902	24.3	23	--	67.2	105	--	1.5	2	--
*PIONEER 3751	24.4	--	--	122.6	--	--	0.0	--	--
GLENN-GARNO 888	24.4	24	24	97.1	128	109	1.4	1	1
*GREAT LAKES GL-420	24.6	--	--	109.9	--	--	2.2	--	--
GOLDEN HARVEST EX920	24.8	--	--	62.5	--	--	2.3	--	--
NORTHROP KING PX9214	24.9	24	25	98.7	121	111	2.9	1	2
*GLENN-GARNO EX851	24.9	--	--	120.2	--	--	0.0	--	--
DAIRYLAND DX1095	25.1	--	--	91.5	--	--	0.7	--	--
*GLENN-GARNO 900	25.3	25	28	108.1	120	106	2.4	3	2
JACQUES 4170	25.9	--	--	101.2	--	--	1.5	--	--
DAIRYLAND DX1096	26.1	26	28	91.9	128	114	0.7	0	0
*GLENN-GARNO 955	26.8	--	--	113.9	--	--	1.4	--	--
*GLENN-GARNO 931X	27.1	--	--	109.1	--	--	4.3	--	--
*GLENN-GARNO 900X	27.4	26	--	107.3	130	--	6.4	4	--
CARGILL 842	27.8	--	--	84.7	--	--	3.0	--	--
*CARGILL SX269	31.1	--	--	105.0	--	--	0.7	--	--

(continued next page)



TABLE 21 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Alpena County Trial--Grain  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2	3	1988	2	3	1988	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
AVERAGE	24.7	23	25	92.3	114	108	2.4	2	2
RANGE	22.2	21	22	61.4	89	92	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	31.1	26	28	122.6	136	114	10.4	5	3
LEAST SIGNIFICANT DIFFERENCE	1.9	1.5	1.2	11.2	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988

40

	1988	1987	1986
PLANTED	May 6	May 9	May 6
HARVESTED	October 31	October 27	November 24
SOIL TYPE			
PREVIOUS CROP	Dry Beans	Dry Beans	Dry Beans
POPULATION	20,000	19,600	19,900
ROWS	30"	30"	30"
FERTILIZER	100-72-72	121-84-84	112-48-168
SOIL TEST: pH	7.1	6.5	5.8
P	128 (very high)	162 (very high)	125 (very high)
K	271 (high)	138 (low)	333 (very high)

FARM COOPERATOR: Allen Schiellard, Hubbard Lake

COUNTY EXTENSION DIRECTOR: Jack Middleton, Alpena

TABLE 22 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Alpena County Trial--Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	1988	2	3	1988	2	3	1988	2	3	1988	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR	YR	YR	YR
AVERAGE	34.0	31.5	31.6	12.9	14.8	14.3	4.4	4.6	4.4			
RANGE	27.8	27.6	29.4	8.3	11.3	12.7	3.3	3.8	4.0			
	TO	TO	TO	TO	TO	TO	TO	TO	TO			
	40.6	35.7	34.4	18.1	17.6	16.2	5.4	5.3	4.7			
LEAST SIGNIFICANT DIFFERENCE	2.9	2.4	2.0	2.6	2.2	1.9	0.6	0.4	0.4			

	1988	1987	1986
PLANTED	May 6	May 9	May 6
HARVESTED	September 9	September 10	October 10
SOIL TYPE			
PREVIOUS CROP	Dry Beans	Dry Beans	Dry Beans
POPULATION	20,400	20,300	19,900
ROWS	30"	30"	30"
FERTILIZER	100-72-72	121-84-84	112-48-168
SOIL TEST: pH	7.1	6.5	5.8
P	128 (very high)	162 (very high)	125 (very high)
K	271 (high)	138 (low)	333 (very high)

FARM COOPERATOR: Allen Schiellard, Hubbard Lake

COUNTY EXTENSION DIRECTOR: Jack Middleton, Alpena



TABLE 22

NORTHERN MICHIGAN  
Alpena County Trial--Silage  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1987, 1986

ZONE 4

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
GOLDEN HARVEST EX920	40.6	--	--	8.3	--	--	3.4	--	--
ASGROW/O'S GOLD RX337	38.7	--	--	11.1	--	--	4.3	--	--
GLENN-GARNO EX851	38.1	--	--	13.0	--	--	5.0	--	--
PIONEER 3902	38.0	35.5	--	11.8	14.3	--	4.4	5.0	--
CARGILL SX123	37.7	--	--	9.4	--	--	3.6	--	--
GLENN-GARNO 852X	37.7	--	--	11.3	--	--	4.3	--	--
JACQUES 3110	37.1	35.7	--	13.8	14.2	--	5.2	5.1	--
GREAT LAKES GL-420	36.8	--	--	13.9	--	--	5.1	--	--
KING K237	36.7	33.7	--	12.0	14.7	--	4.4	4.8	--
DAIRYLAND DX1080	36.4	32.8	--	12.1	13.7	--	4.4	4.4	--
KING K2204	36.3	31.7	--	11.8	15.5	--	4.3	4.8	--
JACQUES 4170	35.7	--	--	12.7	--	--	4.5	--	--
GLENN-GARNO 853X	35.7	--	--	10.2	--	--	3.8	--	--
GOLDEN HARVEST H-2250	35.6	33.7	--	11.9	11.3	--	4.2	3.8	--
GLENN-GARNO 831X	35.1	--	--	15.2	--	--	5.3	--	--
CARGILL 3027	34.7	--	--	12.4	--	--	4.3	--	--
PIONEER 3949	34.0	32.0	34.4	13.0	14.1	12.8	4.3	4.4	4.3
PICKSEED 2700	33.6	31.5	33.0	10.2	13.4	12.7	3.4	4.1	4.1
FUNK G-4027	33.5	--	--	12.9	--	--	4.3	--	--
PIONEER 3751	33.4	--	--	16.2	--	--	5.4	--	--
KING K228	33.3	--	--	12.4	--	--	4.1	--	--
ASGROW/O'S GOLD RX406	33.2	32.0	--	13.2	14.6	--	4.3	4.6	--
DAIRYLAND DX1084	33.2	30.3	--	11.7	14.7	--	3.9	4.3	--
GLENN-GARNO 888	33.1	30.7	32.5	12.4	15.3	14.2	4.1	4.6	4.5
PIONEER 3803	33.0	30.2	31.0	14.8	15.9	14.4	4.8	4.7	4.3
CARGILL 3477	33.0	--	--	14.0	--	--	4.5	--	--
GLENN-GARNO 955	32.8	--	--	15.5	--	--	5.1	--	--
PIONEER 3779	32.5	29.7	29.4	14.9	16.8	16.2	4.8	4.9	4.7
PICKSEED 2600	32.5	32.6	--	10.1	12.8	--	3.3	4.2	--
NORTHROP KING 1194	32.4	29.9	32.5	14.1	16.2	14.7	4.6	4.8	4.6
CARGILL 842	32.0	--	--	14.6	--	--	4.7	--	--
GLENN-GARNO 900X	31.8	30.5	--	14.8	17.6	--	4.7	5.3	--
GLENN-GARNO 900	31.3	30.3	31.5	12.6	15.7	14.3	3.9	4.7	4.4
DAIRYLAND DX1095	31.2	--	--	12.0	--	--	3.8	--	--
DAIRYLAND DX1096	31.2	29.0	30.2	13.5	15.7	15.5	4.2	4.5	4.6
GLENN-GARNO 931X	29.9	--	--	14.1	--	--	4.2	--	--
DAIRYLAND DX1186	29.4	--	--	11.9	--	--	3.5	--	--
CARGILL SX269	28.6	--	--	18.1	--	--	5.2	--	--
NORTHROP KING PX9214	27.8	27.6	29.6	13.2	14.3	13.7	3.7	4.0	4.0

(continued top right)

TABLE 23

NORTHERN MICHIGAN  
Menominee County Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1986, 1985 \*\*

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2 YR	3 YR	1988	2 YR	3 YR	1988	2 YR	3 YR
	GOLDEN HARVEST EX920	20.6	--	--	79.3	--	--	26.4	--
PICKSEED 2600	20.7	--	--	117.7	--	--	1.4	--	--
PIONEER 3902	21.8	--	--	106.9	--	--	0.7	--	--
JACQUES 2750	21.9	--	--	106.5	--	--	0.8	--	--
NORTHROP KING PX9151	21.9	25	25	124.6	142	142	0.0	8	6
NORTHROP KING PX9060	21.9	24	--	89.8	113	--	0.0	8	--
CODON 2020	22.2	--	--	112.9	--	--	0.8	--	--
PIONEER 3949	22.4	--	--	116.8	--	--	4.4	--	--
KING K127	22.4	--	--	101.2	--	--	0.8	--	--
LAND O LAKES 809	22.6	25	--	113.0	139	--	2.8	17	--
PICKSEED 2700	22.8	--	--	121.8	--	--	3.0	--	--
OLDS L-1080B	22.9	--	--	96.4	--	--	3.4	--	--
LAND O LAKES 232	22.9	--	--	111.1	--	--	0.0	--	--
*KING K228	22.9	--	--	134.6	--	--	0.0	--	--
JUNG 2350	23.0	26	27	113.8	130	129	0.8	7	5
JUNG 2230	23.1	--	--	102.9	--	--	3.0	--	--
GLENN-GARNO 831X	23.2	--	--	115.9	--	--	8.6	--	--
GARST 8882	23.3	--	--	103.0	--	--	0.0	--	--
JACQUES 3110	23.4	--	--	99.5	--	--	3.8	--	--
FUNK G-4018	23.8	--	--	117.6	--	--	1.5	--	--
CODON 2121	24.1	--	--	113.0	--	--	1.5	--	--
GOLDEN HARVEST H-2250	24.1	--	--	122.8	--	--	2.4	--	--
*LAND O LAKES 629	24.3	29	--	140.9	151	--	2.9	11	--
GARST 8939	24.3	--	--	105.7	--	--	0.8	--	--
GLENN-GARNO 852X	24.7	--	--	123.7	--	--	0.8	--	--
FUNK G-4027	24.8	--	--	126.0	--	--	0.7	--	--
NORTHROP KING PX9903	24.8	--	--	97.3	--	--	2.2	--	--
OLDS L-1090E	24.9	30	--	121.2	129	--	0.0	4	--
*JUNG 2395	25.1	29	30	129.7	145	138	1.6	10	8
JUNG 9001	25.3	--	--	113.6	--	--	1.9	--	--
GLENN-GARNO 853X	25.6	--	--	114.4	--	--	0.7	--	--
PIONEER 3901	25.9	30	32	118.5	135	137	0.8	5	5
*GARST 8808	26.0	--	--	130.3	--	--	0.7	--	--
*GLENN-GARNO 888	26.5	28	--	147.2	148	--	1.5	7	--
GLENN-GARNO 900	26.6	--	--	125.9	--	--	0.7	--	--
*GREAT LAKES GL-420	27.0	--	--	139.2	--	--	0.0	--	--
*GLENN-GARNO EX851	27.0	--	--	138.0	--	--	0.8	--	--
*GLENN-GARNO 900X	27.4	--	--	145.4	--	--	2.2	--	--
*JUNG 7006	29.6	--	--	131.9	--	--	1.4	--	--
*GLENN-GARNO 955	30.6	--	--	151.7	--	--	0.7	--	--

(continued next page)



TABLE 23 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Menominee Copunty Trial  
ONE, TWO, THREE YEAR AVERAGES - 1988, 1986, 1985 \*\*

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1988	2	3	1988	2	3	1988	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
AVERAGE	24.2	27	29	115.6	137	137	2.1	9	6
RANGE	20.6	24	25	79.3	113	129	0.0	4	5
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	30.6	30	32	151.7	151	142	26.4	17	8
LEAST SIGNIFICANT DIFFERENCE	2.0	1.7	1.5	12.3	9	7	--	--	--

\*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1988  
\*\*NO 1987 DATA

TABLE 24 (CONTINUED) NORTHERN MICHIGAN ZONE 4  
Alger County Trial--Silage  
ONE, TWO YEAR AVERAGES - 1988 AND 1986 \*

HYBRID (BRAND-VARIETY)	% DRY MATTER		TONS PER ACRE		GREEN WEIGHT		DRY WEIGHT	
	1988	2	1988	2	1988	2	1988	2
	YR	YR	YR	YR	YR	YR	YR	YR
AVERAGE	38.5	33.1	16.6	12.5	6.3	4.2		
RANGE	32.8	31.7	10.5	10.4	4.2	3.6		
	TO	TO	TO	TO	TO	TO		
	44.0	34.6	20.3	14.4	7.4	4.6		
LEAST SIGNIFICANT DIFFERENCE	3.4	3.0	3.1	2.7	1.2	0.7		

\* no data for 1987

42

	1988	1987	1986
PLANTED	May 5	May 7	May 9
HARVESTED	October 17	October 23	October 28
SOIL TYPE	Onaway loam	Onaway loam	Emmet sandy loam
PREVIOUS CROP	Hay	Alfalfa	Corn
POPULATION	21,200	19,100	23,200
ROWS	32"	32"	30"
FERTILIZER	90-92-106	139-48-48, Manure	130-25-80
SOIL TEST: pH	6.2		7.1
P	46 (medium)		90 (high)
K	195 (medium)		240 (high)

FARM COOPERATOR: Steve Berzsenyi, Stephenson (1988);  
Harry Mientz, Jr., Stephenson (1986);  
Strefling Farms (1985)

COUNTY EXTENSION DIRECTOR: Don Pelligrini, Stephenson

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

	1988	1987	1986
PLANTED	May 24	May 14	May 14
HARVESTED	October 21	October 9	October 1
SOIL TYPE	Trenary Sandy Loam	Trenary Sandy Loam	Chathan Loam
PREVIOUS CROP	Fallow	Sod	Corn
POPULATION	17,500	17,400	17,900
ROWS	30"	30"	30"
FERTILIZER	70-70-70	68-68-68	130-25-80
SOIL TEST: pH	6.8		7.2
P	56 (medium)		100 (high)
K	176 (medium)		180 (medium)

FARM COOPERATOR: Mark Nachtman, Trenary

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



TABLE 24

NORTHERN MICHIGAN  
Alger County Trial--Silage  
ONE, TWO YEAR AVERAGES - 1988 AND 1986 \*

ZONE 4

HYBRID (BRAND-VARIETY)	TONS PER ACRE					
	% DRY MATTER		GREEN WEIGHT		DRY WEIGHT	
	1988	2 YR	1988	2 YR	1988	2 YR
PICKSEED 2477	44.0	--	10.5	--	4.6	--
PICKSEED 2444	42.7	--	11.4	--	4.9	--
GOLDEN HARVEST EX920	42.5	--	15.5	--	6.6	--
PIONEER 3902	40.6	--	15.9	--	6.5	--
KING K228	40.4	--	17.2	--	7.0	--
KING K127	39.9	33.1	13.6	12.8	5.5	4.3
GLENN-GARNO 853X	39.5	--	18.2	--	7.2	--
PIONEER 3949	39.4	31.7	14.4	14.4	5.7	4.6
GOLDEN HARVEST H-2250	39.4	--	16.9	--	6.7	--
GLENN-GARNO EX80	39.2	--	17.1	--	6.7	--
GLENN-GARNO 931X	39.2	--	18.8	--	7.4	--
GLENN-GARNO 831X	39.1	--	18.7	--	7.3	--
PIONEER 3969	38.6	34.6	10.8	10.4	4.2	3.6
ADOUR 3012	38.6	--	17.9	--	6.9	--
GLENN-GARNO 852X	36.5	--	17.6	--	6.4	--
GLENN-GARNO 888	36.3	--	19.3	--	7.0	--
FUNK G-4018	35.8	--	19.6	--	7.0	--
GLENN-GARNO 955	35.6	--	17.8	--	6.4	--
FUNK G-4010	35.4	--	17.6	--	6.2	--
GLENN-GARNO 900X	34.1	--	20.1	--	6.8	--
GLENN-GARNO 900	32.8	--	20.3	--	6.6	--

(continued top right)

TABLE 25

Index for 351 hybrids from 47 seed companies entered as 2,072 entries in the 1988 Michigan Corn Performance Trails. Numbers within parentheses refer to table numbers in which the hybrid appears. Company names used in association with hybrid numbers refer to the brand and the numbers are the variety (hybrid) designation.

AgriPro, Mitchell, IN 47446

AgriPro AP175 (6,7,8,11,12)  
AgriPro AP364 (1,2,4,7,8,9,10,11,12,13)  
AgriPro AP510 (2,3,4,5,9,10)  
AgriPro AP525 (1,2,3,4,5,6,7,8,9,10,  
11,12)

AgriPro AP595 (1,5)  
AgriPro 680 (1,3,6,7,8,9,10,13)  
AgriPro 710A (3,5,9,10,11,12)

Amcorn Hybrids, Inc., Bradley, MI 49311

Amcorn PSX3333 (6,13,14,15,16,17,18,19,  
20,21)  
Amcorn PSX5555 (7,8,9,10,11,12,13,14,15,  
16,17,18)

Amcorn PSX9009 (1,2,3,4,5,7,8,9,10,  
11,12)  
Amcorn PSX9012 (1,2,3,4,5)

The Andersons, Maumee, OH 43537

Andersons PSX85 (14,15,16,17)  
Andersons PSX93 (16)  
Andersons PSX99 (7,8,14,15,16,17)  
Andersons PSX100 (8,11,12,13)  
Andersons PSX103 (2,3,6,7,9,10,11,12,  
14,15)

Andersons QSX105 (1,5)  
Andersons PSX106 (1,2,3,4,5,6,9,10,  
11,12,13)  
Andersons PSX107 (3,4,5,9,10,13)  
Andersons PSX108 (1,3,4,5)

Asgrow Seed Co., Kalamazoo, MI 49001

Asgrow/O's Gold RX337 (11,12,14,15,16,  
18,21,22)  
Asgrow/O's Gold RX406 (7,8,9,10,11,12,  
13,14,15,16,17,18,21,22)  
Asgrow/O's Gold RX498 (6,7,9,10,14,15,17)  
Asgrow/O's Gold RX578 (1,2,3,4,5,6,7,8,9,  
10,13,17)

Asgrow/O's Gold RX626 (1,2,3,4,5,6,7,  
8,9,10,13,17)  
Asgrow/O's Gold RX746 (1,2,3,4,5)  
Asgrow/O's Gold RX759 (1,2,3,4,5,)

Beck's Hybrids, Atlanta, IN 46031

Beck's 39X (1)  
Beck's 49X (3)  
Beck's 52X (3)  
Beck's 53X (6)  
Beck's 54XA (4,5)

Beck's 62XA (1,2,6)  
Beck's 63X (3,5)  
Beck's 64XA (1,2,3,4,5)  
Beck's 65X (3,5)  
Beck's EX0095 (1,2,4,5)

Betagold, Shakopee, MN 55379

Betagold Erika (16,19)  
Betagold Gretchen (19)  
Betagold Gretel (19)  
Betagold Hanna (2,5,9,10)  
Betagold Heidi (9,10)

Betagold Ingrid (11,12,13,14,15,16)  
Betagold Karla (7,8,11,12,13,14,15)  
Betagold Kristine (8,11,12,13)  
Betagold Maria (2,5,9,10)

(continued next page)



Callahan Seeds, Westfield, IN 46074

Callahan C728 (11,12,18)  
Callahan C743 (11,12,17)  
Callahan C754 (9,10)  
Callahan C765 (1,2,3,13)  
Callahan C771 (1,2,3)  
Callahan 19929X (6,9,10,11,12,13,16,17)

Cargill Seeds, Minneapolis, MN 55440

Cargill SX123 (19,21,22)  
Cargill SX269 (3,4,5,8,9,10,11,12,14,15,21,22)  
Cargill 809 (19)  
Cargill 842 (9,10,20,21,22)  
Cargill 859 (6,17)  
Cargill 2227 (18,19)  
Cargill 3027 (6,14,15,16,17,18,19,20,21,22)  
Cargill 3327 (6,11,12,16,17,18)  
Cargill 3477 (13,14,15,16,18,19,21,22)

Codon, Inc., Elkhorn, WI 53121

Codon 2020 (24)

Countrymark, Inc., Columbus, OH 43216

Countrymark C343X (1,2,3,4,8,9,10,11,12,14,15,17)  
Countrymark C565X (1,2,3,4,8,9,10,11,12,14,15)

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

Crow's 175 (1,3,4,9,10,13)  
Crow's 195 (1,3,4,9,10,13)  
Crow's 210 (1,2,4,6,7)

Custom Farm Seed, Momence, IL 60954

Custom Farm Seed W1351 (19)

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

Dairyland DX1014 (1,2,3,4,5)  
Dairyland DX1015 (1,2,3,4,5,9,10)  
Dairyland DX1017 (1,2,3,4,5,9,10)  
Dairyland DX1080 (18,19,20,21,22)  
Dairyland DX1084 (20,21,22)  
Dairyland DX1087 (13,14,15,16,17)  
Dairyland DX1095 (6,7,8,11,12,13,14,15,16,17,18,19,21,22)  
Dairyland DX1096 (7,8,13,21,22)  
Dairyland DX1097 (11,12,13,14,15,16,17)  
Dairyland DX1101 (4,7,8,11,12,13,14,15,16,17)  
Dairyland DX1103 (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)

Callahan 20041X (1,2,3,5,9,10,13)  
Callahan 20046X (11,12,16,17,18)  
Callahan 20050X (18,19)  
Callahan 20051X (16,18)  
Callahan 20775X (5,6,9,10,13)

Cargill 4227 (6,7,8,9,10,11,12,14,15,16,17)  
Cargill 5157 (6,8,9,10,11,12,13,14,15)  
Cargill 5927 (2,4,7)  
Cargill 6127 (1,2,3,4,5,7,8,9,10,13)  
Cargill 6227 (1,2,3,4,5,7,13)  
Cargill 6927 (1,2,3,4,5)  
Cargill 7993 (1,2,3,5)  
Cargill 76009 (16,18,20)

Codon 2121 (24)

Countrymark C660X (1,2,3,4,8,9,10,11,12,14,15)

Crow's 442 (1,4,8)  
Crow's 482 (1,2,4,5)  
Crow's 488 (1,3,5,6)

Custom Farm Seed W4052 (19)

Dairyland DX1104 (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16)  
Dairyland DX1106 (1,2,3,4,5,6,7,8,9,10,13,14,15,17)  
Dairyland DX1107 (1,2,3,4,5,6,7,8,9,10,13,14,15,17)  
Dairyland DX1181 (18,19,20)  
Dairyland DX1186 (18,19,20,21,22)  
Dairyland DX1190 (13,14,15,16,17)  
Dairyland DX1194 (7,8,11,12,13,14,15,16)

(continued below)

Great Lakes Hybrids, Inc, Ovid, MI 48866

Great Lakes GL-220 (19)  
Great Lakes GL-320 (19)  
Great Lakes GL-365 (19)  
Great Lakes GL-420 (11,12,13,14,15,16,17,18,19,21,22,23)  
Great Lakes GL-482 (5,6,7,8,9,10,11,12,13,14,15,16,17,18)  
Great Lakes GL-509 (1,2,3,4,5,6,7,11,12,13,14,15,16,17)

Gries Seed Farms, Inc., Fremont, OH 43420

Gries X305 (1,2,3,4,7,8,9,10,11,12,13,14,15,16,18)  
Gries X550 (1,2,3,4,7,8,9,10,11,12,13,14,15,16,18)

Heritage Seed, Inc., Portland, MI 48875

Heritage Banker Spanker (1)  
Heritage Easy Money (13)

Jacques Seed Co., Prescott, WI 54021

Jacques 2750 (23)  
Jacques 3110 (21,22,23)  
Jacques 4170 (11,12,16,17,18,19,21,22)  
Jacques 4900 (6,7,11,12,14,15,16,18)  
Jacques 5700 (9,10,14,15,17)

Jung Farms, Inc., Randolph, WI 53957

Jung 2230 (23)  
Jung 2350 (23)  
Jung 2395 (23)

King Grain Co., Chatham, Ontario, Canada N7M5L6

King K127 (23,24)  
King K228 (19,20,21,22,23,24)  
King K237 (19,20,21,22)  
King K416 (7,8,9,10,11,12,13,14,15,16,17,18)  
King K448 (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)

Leader Seeds, Inc., Celina, OH 45822

Leader SX482 (2)  
Leader SX502 (2)

Maumee Valley Seeds, Inc., Woodbury, IN 46797

Maumee Valley 265 (19)  
Maumee Valley MV-509 (7,11,12,13,14,15)  
Maumee Valley MV-611 (1,3,6,7,11,12,13,14,15)  
Maumee Valley MV-630 (1,3,6,7,9,10,11,12,13,14,15)  
Maumee Valley MV-762 (1,3,5,6,7,9,10,11,12,13,14,15)

Great Lakes GL-566 (2,4,5,7,14,15)  
Great Lakes GL-579 (1,3,7,8,9,10,11,12,13,14,15)  
Great Lakes GL-582 (1,2,3,4,5,6,7,8,9,10,13,14,15)  
Great Lakes GL-590 (1,3,4)  
Great Lakes GL-599 (1,2,14,15)  
Great Lakes 82351 (19)  
Great Lakes 86645 (16,17)

Gries X580 (1,2,3,4,7,8,9,10,11,12,13,14,15,16,18)

Heritage Green Machine (1,5,13)

Jacques 6770 (8,9,10,13)  
Jacques 7700 (1,3,4,5,7,8,13)  
Jacques 7770 (2,3)  
Jacques 7820 (1,2,4,5)

Jung 7006 (23)  
Jung 9001 (23)

King K598 (1,2,3,4,5,6)  
King K647 (1,2,3,4,5,6)  
King K2204 (19,20,21,22)  
King K4422 (7,8,9,10,11,12,13,14,15,16,17,18)  
King K5574 (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)

Leader SX574 (1,2,4)

Maumee Valley MV-812 (1,3,5,6,7,9,10,11,12,13,14,15)  
Maumee Valley MV-851 (1,3,5,6)  
Maumee Valley MV-888 (1,3,5,9,10)  
Maumee Valley MV-910 (1)

(continued below)



DeKalb-Pfizer Genetics, DeKalb, IL 60115  
DeKalb-Pfizer DK524 (1,2,3,4,5,6,7,8,9,  
10,11,12,13,14,15,16,17,18)  
DeKalb-Pfizer DK535 (1,2,5,6,7,8,9,10,  
11,12,13,14,15,16,17,18)

Dexter Creek Farms, Trenary, MI 49891  
Adour 3012 (24)

E. J. Funk & Sons, Inc., Kentland, IN 47951  
Super Crost 1637 (14,15,16,18,19)  
Super Crost 2445 (14,15,16,17)  
Super Crost 2510 (7,8,13)  
Super Crost 2989 (1,7,8,9,10,11,12,13,  
14,15)  
Super Crost 4366 (3)

Funk Seeds International, Bloomington, IL 61701  
Funk 1040X (19)  
Funk G-4010 (24)  
Funk G-4018 (19,23,24)  
Funk G-4027 (19,20,21,22,23)  
Funk G-4211 (19)  
Funk G-4234 (9,10)  
Funk G-4299 (9,10,11,12,14,15,16,18)

Garst Seed Co., London, OH 43140  
Garst 8555 (3,5)  
Garst 8708 (9,10,13)  
Garst 8808 (16,17,23)

George's Seed, Prescott, WI 54021  
George's 7092 (17)

Glenn-Garno, Inc., Stockbridge, MI 49285  
Glenn-Garno EX107X (1,2,3,4,5,6,7,8,9,  
10,11,12,13,14,15,16,17)  
Glenn-Garno 107A5X 1,2,3,4,5,6,7,8,9,  
10,11,12,13,14,15,16)  
Glenn-Garno 831X (11,12,13,14,15,16,17,  
18,19,20,21,22,23,24)  
Glenn-Garno EX851 (17,18,19,20,21,22,  
23,24)  
Glenn-Garno 852X (11,12,13,14,15,16,17,  
18,19,20,21,22,23,24)  
Glenn-Garno 853X (11,12,13,14,15,16,17,  
18,19,20,21,22,23,24)  
Glenn-Garno 888 (11,12,13,14,15,16,17,  
18,19,21,22,23,24)  
Glenn-Garno 900 (16,17,18,19,21,22,  
23,24)  
Glenn-Garno 900X (16,17,18,19,21,22,  
23,24)

DeKalb-Pfizer DK547 (1,3,4,7,8,9,10,  
11,12,13,14,15,16,17,18)  
DeKalb-Pfizer DK572 (3,5)

Super Crost 4386 (5)  
Super Crost 4877 (1,2,3,4,5)  
Super Crost EXP.8105 (11,12,17)  
Super Crost EXP.8107 (11,12,13)  
Super Crost EXP.8110 (8,9,10)

Funk G-4309 (6,9,10,11,12,14,15,16,  
17,18)  
Funk G-4326 (7,8,9,10,13,17)  
Funk G-4425 (1,2,3,4,5,6,7,8,13)  
Funk G-4485 (1,2,3,4)  
Funk G-4513 (5)

Garst 8882 (18,23)  
Garst 8939 (23)

George's 7095 (17)

Glenn-Garno 931X (9,10,11,12,13,14,  
15,16,17,18,19,21,22,23)  
Glenn-Garno 955 (16,17,18,19,21,22,  
23,24)  
Glenn-Garno 1003 (1,2,3,4,5,6,7,8,9,  
10,11,12,13,14,15,16,17)  
Glenn-Garno 1007 (1,2,3,4,5,6,7,8,9,  
10,11,12,13,14,15,16,17)  
Glenn-Garno 1008 (1,2,3,4,5,6,7,8,9,  
10,11,12,13,14,15,16,17)  
Glenn-Garno 1010 (1,2,3,4,5,6,7,8,9,  
10,11,12,13,14,15)  
Glenn-Garno 1012 (1,2,3,4,5,7,8,9,10)  
Glenn-Garno 10747X (1,2,3,4,5,6,7,8,  
9,10,11,12,13,14,15,16)

(continued top right)

McCurdy Seed Co., Fremont, IA 52561

McCurdy 4925 (1,2,3,4)  
McCurdy 5750 (2,4,5)

McCurdy 5990 (1,3)  
McCurdy 6660 (1,2,3,4,5)

Michigan Hybrid Seed Co., Mason, MI 48854

Wolverine W156 (4,7,8,13,14,15,16)  
Wolverine W163 (2,4,7,8,13,14,15,16,17)  
Wolverine X187 (13,16)

Wolverine X199 (13,16)  
Wolverine X1108 (2,4,13)

Northrup King Co., Minneapolis, MN 55440

Northrup King 1194 (19,21,22)  
Northrup King S3306 (14,15)  
Northrup King N3624 (16,17,18,19)  
Northrup King N4350 (7,16,17)  
Northrup King N4545 (7,8,9,10,11,12,13,  
14,15,16,17,18)  
Northrup King S4590 (6,11,12,13,14,15)  
Northrup King S5340 (8,11,12,13,14,15)  
Northrup King S5987WX (4,9,10,14,15)  
Northrup King N6321 (1,2,3,4,9,10,14,15)  
Northrup King N6348 (1,6,9,10,13)

Northrup King N6873 (5)  
Northrup King 7705 (1,3,5)  
Northrup King S7751 (2)  
Northrup King PX9060 (23)  
Northrup King PX9151 (23)  
Northrup King PX9214 (16,19,21,22)  
Northrup King PX9292 (7)  
Northrup King PX9540 3,5)  
Northrup King PX9903 (23)

Olds Seed Co., Madison, WI 53707

Olds L-1080B (23)

Olds L-1090E (23)

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

Parker 52A (6)  
Parker 63 (2,5)

Parker 400 (2,5)

Payco Seeds, Dassel, MN 55325

Payco 248 (19,20)  
Payco 408 (18,19,20)  
Payco 448 (8,13,16,18,19,20)  
Payco 648 (1,2,3,4,5,6,7,13,16)  
Payco SX686 (13,16,18)

Payco SX687 (1,2,3,4,5,6,7,8,13,  
16,18)  
Payco 748 (1,2,3,4,5,6,13)  
Payco SX872 (1,2,3,4,5,6,13)

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

Pickseed 2444 (24)  
Pickseed 2477 (24)  
Pickseed 2600 (19,20,21,22,23)  
Pickseed 2700 (19,20,21,22,23)  
Pickseed 4533 (19,20)

Pickseed 5575 (11,12,13,17,18)  
Pickseed 5577 (11,12,13,16,17,18)  
Pickseed 8877 (11,12,13,16,17,18)  
Pickseed 8898 (16,17,18)  
Pickseed 41-703 (11,12,13,16,17,18)

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

Pioneer 3352 (1,2,3,4,5)  
Pioneer 3374 (5)  
Pioneer 3379 (1,2,3,4,5)  
Pioneer 3475 (1,2,3,4,5,6,7,8,9,10,11,  
12,13,14,15,16,17)  
Pioneer 3540 (5,6)  
Pioneer 3585 (1,2,3,4,6,7,8,9,10,11,12,  
13,14,15,16,17,18)  
Pioneer 3704 (7,8,9,10)  
Pioneer 3737 (4,6,7,9,10,11,12,13,14,  
15,16,17,18)  
Pioneer 3744 (8,11,12,13,16,17,18)

Pioneer 3751 (1,2,3,6,7,9,10,11,12,  
13,14,15,16,17,18,20,21,22)  
Pioneer 3772 (8,11,12,13,14,15,16)  
Pioneer 3779 (11,12,14,15,18,20,21,  
22)  
Pioneer 3790 (11,12)  
Pioneer 3803 (20,21,22)  
Pioneer 3901 (23)  
Pioneer 3902 (20,21,22,23,24)  
Pioneer 3949 (20,21,22,23,24)  
Pioneer 3969 (24)

(continued next page)



Prairie Stream Farms, Inc., Frankport, IN 46041

Prairie Stream SX502 (5)

Prairie Stream M4400 (5)

Pro-Seed, Inc., Blissfield, MI 49228

Pro-Seed 83091 (16)

Pro-Seed 83092 (16)

Pro-Seed 83096 (1,9,10)

Pro-Seed 83105 (1,13)

Pro-Seed 83106 (1)

Pro-Seed 83108 (1)

Pro-Seed 84112 (1)

Renk Seed Co., Sun Prairie, WI 53590

Renk RK19 (9,10,11,12,13)

Renk RK64 (1,2,3,4,5,7,8,9,10,11,  
12,13,14,15,17)

Renk RK68 (13,14,15)

Renk RK76 (1,2,3,4,5,14,15)

Renk R129 (14,15)

Renk R138 (13,14,15,16)

Renk R148 (9,10,11,12,13,14,15)

Renk RK505 (13,14,15,16)

Renk RK627 (1,2,3,4,5,7,8,9,10,11,  
12,13,14,15,17)

Renk RK721 (1,3,4)

Renk RK803 (2,4)

Rupp Seeds, Inc., Wauseon, OH 43567

Rupp XR1527 (9,10,11,12,13,16)

Rupp XR1557 (9,10,13,16)

Rupp XR1639 (1,13)

Rupp XR1739 (1,2,3,5,9,10,11,12,13)

Rupp XR1827 (3)

Seedex, Inc., Noblesville, IN 46060

Seedex 995 (2,8,13)

Seedex 1060 (2,8,13)

Seedex 1085 (2,8,13)

**46** Seedtec International, Carrollton, IL 62016

Seedtec ST-6800 (1,4)

Seedtec ST-7446 (1,4)

Seedtec ST-7500 (1)

Select Seed Hybrids, Camden, IN 46917

Select 2626 (13)

Select 2772 (13)

Select 3100 (13)

Select 3720 (1,6,13)

Select 4144 (1,3,6)

Select 4701 (1,3)

Select 4850 (1,3)

Select 4905 (6)

Select 4972 (3,6)

Select 4988 (1,3,6)

Select 5015 (3,6)

Select 5040 (1,3,6)

Select 5188 (3,6)

Sommer Bros. Seed Co., Pekin, IL 61554

Golden Harvest EX480 (1,2,4,5)

Golden Harvest EX920 (19,20,21,22,23,24)

Golden Harvest H-2250 (19,20,21,22,23,24)

Golden Harvest H-2343 (8,11,12,14,15,  
16,18)

Golden Harvest H-2344 (8,11,12,14,15,  
16,18)

Golden Harvest H-2404 (7,9,10,13,17)

Golden Harvest H-2410 (7,9,10,13,17)

Golden Harvest H-2438 (7,9,10,13,17)

Golden Harvest H-2465 (4,5,6,8,9,  
10,13)

Golden Harvest H-2525 (1,2,4,5,6)

Golden Harvest H-2532 (1,2,3,4,5,9,  
10,11,12)

Golden Harvest H-2572 (1,2,3,4,5)

Stephenson Marketing, Stephenson, MI 53121

Stephenson 232 (23)

Stephenson 629 (23)

Stephenson 809 (23)

(continued below)



Terra International, Champaign, IL 61820

Terra TR32 (1,3,4,11,12,13,14,15)

Terra TR59 (11,12,14,15)

Terra TR164E (1,3,4,11,12,13,14,15)

Terra TR880 (11,12,13,14,15)

Terra TR975 (1,3,4,11,12,13,14,15)

Terra TR1040 (1,3,4,11,12,13,14,15)

Terra TR1060 (1,3,4)

Terra TR1110 (1,3,4)

Terra TR1120 (1,3,4)

Terra TR1125 (1,3,4)

Trelay, Inc., Livingston, WI 53554

Trelay 5808 (11,12)

Trelay 8007 (1)



**E** MSU is an Affirmative Action/Equal Opportunity Institution. Cooperative Extension Service Programs are open to all without regard to race, color, national origin, sex or handicap. ■ Issued in furtherance of Cooperative Extension work in agriculture and home economics, acts of May 8, and June 30, 1914, in cooperation with the U.S. Department of Agriculture. W.J. Moline, Director Cooperative Extension Service, Michigan State University, East Lansing, MI 48824. ■ This information is for educational purposes only. Reference to commercial products or trade names does not imply endorsement by the Cooperative Extension Service or bias against those not mentioned. This bulletin becomes public property upon publication with credit to MSU. Reprinting cannot be used to endorse or advertise a commercial product or company.

5.5M-1:89-TCM-GV. Revision, destroy previous editions. Price 80¢, *for sale only*

**File 22.1** (Field Crops—Corn)