

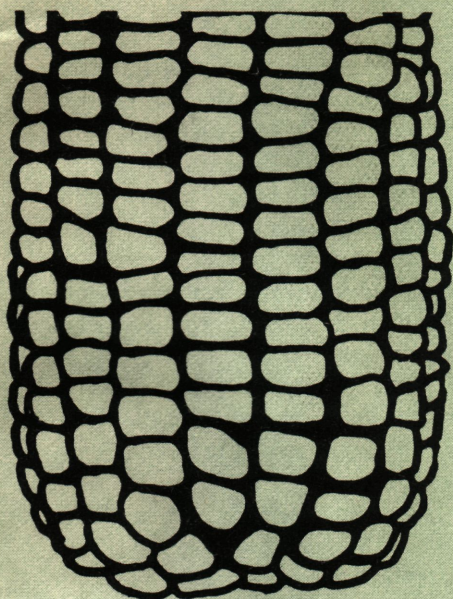
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Michigan Corn Production Hybrids Compared
Michigan State University Extension Service
E.C. Rossman, Keith Dysinger, Mervin Chamberlain, R.H. Leep, Crop Science
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Michigan Corn Production

HYBRIDS COMPARED 1985

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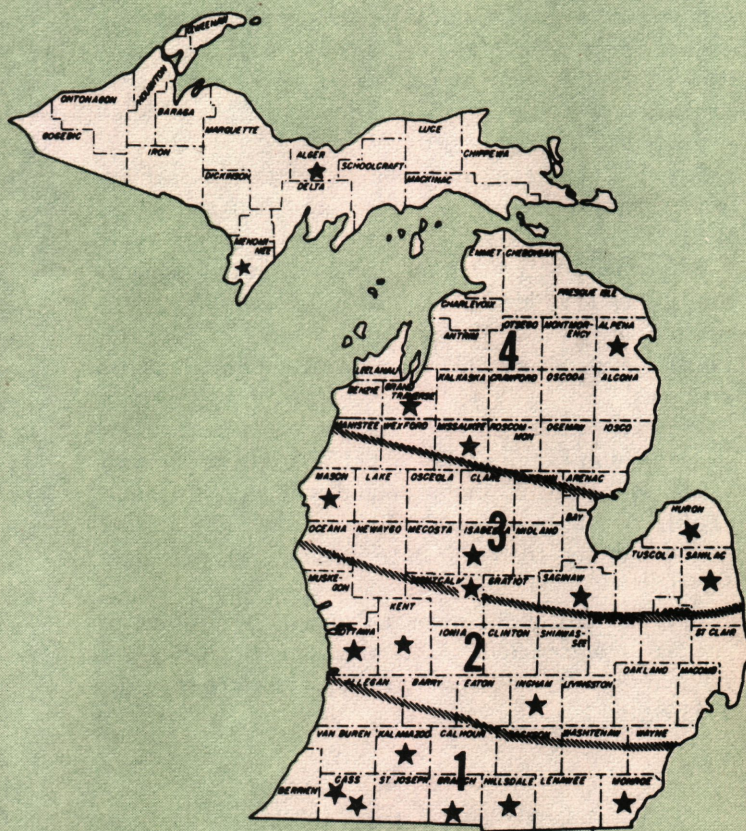
By: E. C. Rossman, Keith Dysinger, Mervin Chamberlain, and R. H. Leep.

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

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

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

The highest yielding hybrids in the 1984 trials produced 28 bushels more corn per acre than the average of the 390 hybrids tested and 59 bushels more than the lowest tested (TABLE A). At the 19 testing locations the yields were 145 for the highest, 117 for the average and 85 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 13 percent for hybrids with the highest amount of stalk lodging, 4 percent for the average and 0.2 percent for the lowest.



Corn Maturity Zones and Locations (*) of Trials

Entries

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

Table 27 presents an index of all hybrids entered in the 1984 trials. At 19 locations, 390 hybrids were tested as 2,115 entries. Company names used in association with hybrid numbers refer to the brand; the number is the hybrid designation.

Single-cross hybrids are indicated with (2X), three-way hybrids with (3X), double-cross hybrids with (4X), modified single-cross hybrids with (MSX) and special cross hybrids with (Sp) following the hybrid name and number in the index, TABLE 27.

Methods

Scientific procedures are followed in conducting these trials to give all hybrids equal opportunity to demonstrate their capabilities. The best way to compare a group of corn hybrids is to grow them all in the same field with the same fertilizer, population, date of planting, etc.

Seed for all entries was submitted by seed companies. Equal numbers of seeds were counted for each plot of all hybrids. Each hybrid was replicated several times in the field. Plots were planted with a standard two-row corn planter adapter for small plots.

From seed packaging through harvest and data processing, each hybrid was identified only by a code number to reduce the chance of personal bias by anyone working in the field or with the data. The code was deciphered after the data had been processed.

Strands and lodging were counted before harvest. Plots were harvested mechanically for both grain and silage yields.

Silage yields were taken on all hybrids in the Ingham, Sanilac, Huron, Missaukee, Alpena, Menominee, and Alger County trials (Tables 10,12,15,20,22,24,26). The Sanilac County silage trial was on a different farm than the grain trial.

Irrigated and non-irrigated comparisons were made in the Montcalm County trial (TABLE 17). There were two locations in Cass County—upland soil with irrigation (TABLE 5) and muck soil (TABLE 6). The Hillsdale and Mason County trials (TABLES 2 and 18) were also irrigated.

The Ottawa County trial was damaged by flooding in late May. Stands were not acceptable for research data and the trial was not harvested. TABLE 8 is repeated from the 1983 edition.

Growing Conditions

Planting of all trials was completed between April 28 and May 24. Heavy rains in late May and early June resulted in near maximum to surplus soil moisture condi-

tions. Below normal rainfall during much of June, July and August caused crop stress at most locations except northern Michigan and the "thumb" area. Adequate to surplus soil moisture supplies during the early part of the growing season delayed the stress of inadequate rainfall. The crop was 50% silked on July 29 compared to 40% in 1983, 80% in 1982 and 54% for the 5-year average.

Scattered showers in early September gave some relief to generally dry conditions that had persisted in most areas during much of the summer. Soil moisture supplies returned to adequate to surplus by mid-September. Corn was 60% dented by September 9 compared to 65% in 1983 and 61% for the 5-year average.

Corn was estimated at 85% mature on September 30 compared to 90% in 1983 and 72% for the 5-year average. Some killing frosts occurred in early October but most hybrids had matured.

Dry-down of corn was slow due to cloudy, wet and foggy weather. Moisture content of grain still averaged 26% statewide in early November.

Total corn acreage was 3,000,000 with 2,600,000 harvested for grain and 400,000 for silage. The Michigan Crop Reporting Service estimates a state average yield of 85 bushels per acre, lowest since 1978, compared to 92 in 1983 and 109 in 1982. Total grain production is estimated at 221 million bushels.

Plant Population Trials

Five adapted hybrids at four plant populations (15,700 to 27,000 plants per acre at harvest) were grown at each of 16 locations (TABLE B). Hybrid $\times$ population interactions were not significant, so only the averages are reported.

The 23,300 average harvest population produced significantly higher yields at 6 of the 16 locations, averaging 162 to 186 bushels per acre. These increases were 9,7,15,8,8 and 11 bushels per acre above yields at 19,400 population. Four of these six locations were irrigated. At two other locations, the increases were small (3 bushels) and not significant. Yields decreased (1-21 bushels) at 8 locations when harvest populations increased from 19,400 to 23,000.

Average yields were 125, 135, 134 and 127 bushels per acre for the four populations averaged for all locations. Moisture content of grain averaged 1-2 percent higher for the highest population. There was a marked trend toward increased stalk lodging as plant population was increased.

How to Use This Bulletin

One-, two- and three-year averages are presented for all hybrids tested during 1984, 1983, and 1982.

One-year data are less reliable than two- or three-year averages and should be interpreted with more caution. Confidence in corn performance data increases with the number of years and locations of testing. Two or more

years' results are more desirable than one year of testing.

The tables tell you three things about the hybrids tested:

1. Average moisture content at harvest.
2. Average yield (in bushels) of shelled corn at 15.5% moisture.
3. Average percentage of stalk lodging (plants broken below the ear at harvest).

Hybrids are recorded in the tables in order of their approximate maturity (early to late) based on moisture content at harvest.

Moisture content was determined from shelled grain samples at all locations harvested for grain and from chopped silage (fodder plus grain) in the silage trials.

Stalk breakage is caused by corn borers and/or stalk rot diseases.

Two or more plots of the same hybrid in the same field may produce somewhat different results due to uncontrolled variability in the soil and other environmental factors. Replication and randomization of the entries are two methods used to reduce these errors. Since these methods do not eliminate all of these effects, differences necessary for statistical significance have been calculated for yield and moisture content.

When comparing any two hybrids, the difference between them should not be considered significant unless it exceeds the value listed at "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 1984."

Agronomic information for each trial is given at the bottom of the table. Fertilizer amounts are total pounds per acre of nitrogen, P_2O_3 and K_2O applied during the season.

How to Choose a Hybrid

Adaptation-The map on the cover shows the location of the trials and divides Michigan into four maturity zones. A map can show maturity zones only in a general way. Local variations in weather, soil type and fertility, time of planting and other conditions all affect adaptation. Corn hybrids are often adapted to more than one zone.

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

Planting Rate-High plant populations (20,000, or more, per acre) should be considered only for soils consistently

producing more than 100 bushels per acre. Rainfall deficiencies with high plant populations usually result in no increase in yield, and frequently a decrease, compared to 18,000 to 19,000 plants per acre. Lodging and harvest losses are often greater at higher populations.

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

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

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

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

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

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

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

You can get some degree of "crop insurance" by choosing two or three hybrids which differ slightly in their maturity. If one hybrid runs into unfavorable weather at

a critical stage of growth, another may be affected less and come through with a good crop.

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

To Reduce Stalk Lodging

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

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

The most effective practice to reduce losses from stalk rot is to harvest as soon as possible after maturity. Stalk breakage continues to increase rapidly in warm, damp

weather when harvest is delayed. Early-maturing hybrids that mature in September will have more stalk breakage than late-maturing hybrids harvested in November and December. There may be little or no advantage to planting early maturing hybrids if harvest is delayed.

To avoid problems, the best combination is to choose high yielding, early maturing hybrids, plant early and harvest early.

To Avoid Moldy Corn in 1985

The following recommendations will help avoid moldy corn in 1985:

1. Plant early.
2. Plant early to medium-early maturing hybrids.
3. Harvest early—during October. Weather problems and harvest losses increase with later harvest.
4. Plan for adequate artificial drying. Drying in the field and in the crib is slow and undependable in Michigan. Ready access to drying facilities will permit more timely harvest with less harvest loss and more corn profits.

Seed Supplies for 1985

Production of hybrid seed corn in 1984 was considerably better than in 1983. Milder temperatures and more timely rains in most seed production areas resulted in high quality seed. Supplies of most hybrids should be adequate for 1985 planting.

TABLE A

AVERAGE, HIGHEST AND LOWEST MOISTURE CONTENT
GRAIN YIELD, AND STALK LODGING AT 19 LOCATIONS
IN 1984

LOCATION-COUNTY	NO. OF HYBRIDS	BUSHEL PER ACRE			% MOISTURE			% STALK LODGING		
		AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST	AVERAGE	HIGHEST	LOWEST
MONROE	128	129.1	156.1	101.6	28.5	34.5	23.3	3.4	10.4	0.0
HILLSDALE-IRRIGATED	123	140.4	179.3	98.8	28.4	32.3	23.1	2.6	8.5	0.0
BRANCH	127	143.4	174.8	105.8	26.2	30.2	21.7	0.4	6.3	0.0
KALAMAZOO	126	68.1	95.3	41.5	28.3	32.8	23.0	4.4	16.7	0.0
CASS-UPLAND IRRIGATED	125	160.4	195.2	112.0	26.7	30.6	21.3	2.1	6.9	0.0
CASS-MUCK SOIL	65	128.5	148.1	106.7	24.4	28.5	21.6	2.8	9.5	0.0
KENT	88	83.9	108.7	61.6	22.4	26.0	19.6	8.9	25.4	0.0
INGHAM	125	120.4	145.7	91.5	29.1	35.5	23.6	4.0	14.7	0.0
SANILAC	104	142.9	179.5	106.9	31.1	35.6	24.0	0.8	5.2	0.0
SAGINAW	115	145.8	176.4	106.9	27.1	32.2	20.4	3.5	11.5	0.0
HURON	103	134.3	161.2	98.1	28.7	33.9	24.3	2.0	11.9	0.0
ISABELLA	53	92.5	119.6	65.9	24.1	28.1	20.4	1.2	5.5	0.0
MONTCALM-IRRIGATED	62	152.3	186.5	114.4	26.7	31.6	23.3	2.7	7.4	0.0
MONTCALM-NOT IRRIGATED	62	68.6	87.2	43.2	26.7	31.6	23.3	5.3	12.6	0.0
MASON-IRRIGATED	37	124.8	150.3	90.7	24.4	28.5	20.5	1.4	8.0	0.0
GRAND TRAVERSE	40	96.2	123.0	69.6	24.6	28.7	21.4	12.3	44.4	2.8
ALPENA	48	105.4	129.5	76.3	29.6	34.5	24.1	1.0	5.9	0.0
MENOMINEE	28	116.5	146.0	85.9	27.9	31.4	22.6	6.7	16.5	1.5
ALGER	16	66.8	88.7	48.2	41.2	46.9	32.5	----	----	----
AVERAGE		116.9	144.8	85.4	27.7	32.3	22.8	3.6	12.6	0.2

TABLE B

AVERAGE GRAIN YIELD, % MOISTURE AND % STALK LODGING AT FOUR
HARVEST PLANT POPULATIONS FOR 16 LOCATIONS IN 1984

LOCATION-COUNTY	BUSHEL PER ACRE				% MOISTURE IN GRAIN				% STALK LODGING			
	15,700	19,400	23,300	27,000	15,700	19,400	23,300	27,000	15,700	19,400	23,300	27,000
MONROE	134	146	143	138	29	29	30	29	1	2	2	6
HILLSDALE-IRRIGATED	149	163	172	166	26	27	27	29	1	3	5	8
BRANCH	141	160	167	165	25	26	28	27	2	2	4	7
KALAMAZOO	84	86	74	66	25	27	27	29	3	4	8	11
CASS-UPLAND-IRRIGATED	155	171	186	183	25	26	27	27	1	2	4	8
CASS-MUCK SOIL	132	140	139	129	25	25	26	27	2	3	5	10
KENT	90	94	85	79	24	24	24	26	6	6	10	15
INGHAM	128	132	123	118	28	30	31	31	3	5	6	10
SANILAC	149	164	172	156	29	30	32	31	0	2	2	6
SAGINAW	146	154	162	151	28	28	28	30	1	3	7	9
HURON	140	151	154	140	28	29	30	32	2	2	5	10
ISABELLA	96	102	81	77	24	24	24	23	0	2	4	7
MONTCALM-IRRIGATED	160	168	179	176	26	26	27	27	1	3	3	6
MONTCALM-NOT IRRIGATED	76	78	71	63	25	27	27	27	3	6	10	15
MASON-IRRIGATED	122	135	138	132	24	25	26	26	2	3	7	8
GRAND TRAVERSE	94	112	102	94	25	25	25	26	5	8	11	14
AVERAGE	125	135	134	127	26	27	27	28	2	4	6	10

TABLE 1 SOUTHERN MICHIGAN
MONROE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	YR	YR	1984	YR	YR	1984	YR	YR
RUPP XR1520	23.3	--	--	127.7	--	--	3.6	--	--
PAYCO SX620	23.8	21	--	128.4	114	--	6.5	7	--
NORTH COAST NC2050	24.3	--	--	129.0	--	--	5.8	--	--
LOWE 117	24.3	22	21	101.7	111	106	5.5	7	6
PRO-SEED HYLAND HL-2455	24.6	--	--	101.6	--	--	3.6	--	--
PRO-SEED HYLAND LG18	24.7	--	--	120.1	--	--	10.4	--	--
CROW'S 199	24.8	22	23	137.2	133	122	3.7	3	3
PRO-SEED HYLAND LG22	25.0	--	--	130.7	--	--	2.7	--	--
DEKALB-PFIZER EXP348	25.3	--	--	113.4	--	--	2.2	--	--
MFI 1855	25.4	23	--	105.6	122	--	3.0	7	--
KING K4464	25.6	24	--	124.9	115	--	2.2	2	--
*PIONEER 3707	25.8	24	23	141.5	138	133	0.7	1	1
RUPP XR1591	25.8	--	--	136.5	--	--	6.9	--	--
NORTH COAST NC2100	26.0	--	--	117.5	--	--	5.9	--	--
LAND O'LAKES LOL-1071	26.0	--	--	108.3	--	--	0.7	--	--
CALLAHAN C744	26.1	--	--	115.3	--	--	7.8	--	--
*PRO-SEED HYLAND HL-2454	26.3	22	--	140.8	125	--	3.2	6	--
CALLAHAN X17985	26.3	--	--	129.8	--	--	3.7	--	--
DEKALB-PFIZER DK505	26.5	--	--	127.2	--	--	2.3	--	--
VORIS V2471	26.5	--	--	132.8	--	--	3.7	--	--
LOWE 237	26.6	--	--	136.3	--	--	4.4	--	--
FARMERS FCC251	26.6	25	--	128.8	133	--	2.8	6	--
*DEKALB-PFIZER DK484	26.7	23	--	141.9	123	--	4.3	6	--
*PIONEER 3737	26.7	--	--	156.1	--	--	6.0	--	--
*PAYMASTER 2990	26.7	--	--	148.3	--	--	2.9	--	--
PIONEER 3747	26.8	24	23	137.7	139	135	6.8	5	4
SELECT 3720	26.8	--	--	107.7	--	--	2.4	--	--
*CARGILL 889	26.9	--	--	155.7	--	--	1.4	--	--
RUPP XR1601	26.9	--	--	124.3	--	--	4.5	--	--
JACQUES 5400	27.0	--	--	119.9	--	--	5.0	--	--
ANDERSONS PSX-100	27.0	--	--	119.5	--	--	5.4	--	--
BECK'S 49X	27.0	24	--	127.0	142	--	3.8	2	--
CARGILL 861	27.1	24	24	136.5	123	123	5.0	6	6
*GREAT LAKES 83452	27.2	--	--	146.3	--	--	0.0	--	--
FUNK G-4323	27.3	24	25	130.8	125	121	3.7	3	3
DAIRYLAND DX1012	27.3	26	26	114.0	124	127	0.0	1	3
CROW'S 431	27.3	25	--	118.0	129	--	1.4	1	--
*PAYCO SX700	27.3	--	--	142.0	--	--	5.2	--	--
BO-JAC 381	27.4	24	--	117.7	119	--	5.3	6	--
*PIONEER 3540	27.5	--	--	142.0	--	--	2.1	--	--
RENK RK66	27.5	--	--	137.0	--	--	6.3	--	--
BECK'S 51X	27.5	--	--	135.5	--	--	1.5	--	--
MFI 2000	27.5	--	--	113.1	--	--	2.5	--	--
KING K4474	27.6	24	--	132.3	138	--	8.0	6	--
*LAND O'LAKES LOL-1061	27.6	--	--	144.8	--	--	4.4	--	--
*STAUFFER SEEDS S5260	27.7	--	--	141.2	--	--	5.2	--	--
JACQUES 7700	27.7	24	--	130.1	133	--	5.1	4	--
PRO-SEED HYLAND HL-2803	27.7	--	--	132.5	--	--	2.3	--	--
*GOLDEN HARVEST H-2480	27.7	26	--	143.3	137	--	3.3	2	--
STAUFFER SEEDS S5650	27.8	24	25	135.8	134	128	1.4	3	4
*RUPP XR1690	27.8	25	25	149.3	137	130	2.1	3	4
MFI 1812	27.8	25	--	120.5	128	--	4.5	5	--
MFI 1833	27.8	24	--	123.7	129	--	4.0	3	--
LEADER LSX530	27.9	--	--	120.3	--	--	1.5	--	--
*RENK RK60	28.0	--	--	140.7	--	--	2.8	--	--
ANDERSONS PSX-105	28.0	24	--	123.0	138	--	0.7	2	--
O'S GOLD 2545	28.0	--	--	136.1	--	--	0.0	--	--
DEKALB-PFIZER DK556	28.2	25	--	132.4	127	--	5.0	5	--
FUNK G-4342	28.2	25	25	131.9	129	122	4.0	3	5
CALLAHAN C766	28.2	--	--	108.4	--	--	4.0	--	--
NORTH COAST NC2310	28.3	--	--	133.4	--	--	4.1	--	--
RUPP XR1625	28.3	24	25	116.2	129	124	3.0	4	4
*CALLAHAN X18457	28.4	--	--	144.9	--	--	2.9	--	--
*GREAT LAKES GL-547	28.6	25	--	149.4	140	--	2.8	4	--
LEADER SX490	28.7	--	--	117.2	--	--	5.4	--	--
LEADER LSX525	28.7	--	--	122.4	--	--	5.7	--	--
NORTH COAST NC2205	28.7	--	--	123.5	--	--	1.5	--	--
RENK RK64	28.7	--	--	127.6	--	--	5.8	--	--
SUPER CROST 4304	28.8	--	--	124.7	--	--	4.6	--	--
PAYCO SX860	28.8	26	27	120.2	131	125	2.3	2	3
FARMERS FCC2244	28.8	25	25	124.4	128	125	0.7	5	7
STAUFFER SEEDS S5750	28.9	--	--	127.1	--	--	1.5	--	--
PRO-SEED HYLAND HL-2730	28.9	--	--	130.6	--	--	5.5	--	--
RUPP XR1707	28.9	--	--	108.8	--	--	4.0	--	--
GOLDEN HARVEST H-2448	28.9	25	26	128.1	141	135	4.4	3	4
*GREAT LAKES 5922	28.9	26	27	147.3	144	141	0.0	2	3
STAUFFER SEEDS S5722WX	29.2	--	--	123.3	--	--	6.2	--	--
PAYMASTER 4660	29.2	25	25	121.8	125	125	2.3	2	2
*DEKALB-PFIZER T1000	29.2	26	--	141.9	135	--	5.7	5	--
NORTH COAST NC2320	29.3	--	--	135.4	--	--	3.1	--	--

TABLE 1 (CONTINUED) SOUTHERN MICHIGAN
MONROE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	YR	YR	1984	YR	YR	1984	YR	YR
SELECT 3222-S	29.3	26	--	122.0	136	--	2.9	4	--
CROW'S 444	29.3	--	--	122.4	--	--	3.8	--	--
*FUNK G-4438	29.4	27	27	150.0	144	134	3.0	5	6
*GARNO S-102	29.4	26	27	142.2	139	136	0.7	2	1
GREAT LAKES GL-579	29.4	--	--	133.1	--	--	2.5	--	--
DAIRYLAND DX1107	29.4	--	--	126.7	--	--	1.7	--	--
DAIRYLAND DX1008	29.4	26	26	136.6	134	128	2.2	3	4
DEKALB-PFIZER DK587	29.7	--	--	128.6	--	--	3.8	--	--
GRIES X490	29.7	--	--	115.1	--	--	4.1	--	--
*RUPP XR1780	29.7	27	28	144.4	142	131	2.9	5	4
RUPP XR1639	29.7	26	26	133.6	135	134	3.8	4	4
NATIONAL NA-1006	29.8	--	--	130.3	--	--	2.2	--	--
SUPER CROST 5438	29.9	--	--	128.7	--	--	1.4	--	--
*SELECT 4144	29.9	--	--	155.0	--	--	3.6	--	--
ANDERSONS PSX-110	29.9	--	--	130.2	--	--	3.7	--	--
*FUNK G-4514	30.1	--	--	149.2	--	--	0.7	--	--
BO-JAC 603	30.1	--	--	128.8	--	--	1.4	--	--
SELECT 4800	30.1	28	28	122.5	129	122	3.0	3	3
O'S GOLD 6882	30.1	27	28	122.2	128	120	3.6	8	7
BECK'S 60X	30.1	27	--	133.5	143	--	0.8	3	--
MFI 1976	30.1	27	--	124.9	136	--	2.3	2	--
STAUFFER SEEDS S5340	30.2	26	--	130.7	136	--	4.3	5	--
LEADER LX575	30.2	27	28	120.0	136	129	4.5	4	7
*RENK RK75	30.2	--	--	142.6	--	--	3.1	--	--
*VORIS V2491	30.2	28	28	153.4	142	129	3.5	4	4
DAIRYLAND DX1017	30.3	27	29	126.3	140	130	1.6	1	1
CROW'S 488	30.3	--	--	136.5	--	--	1.4	--	--
STAUFFER SEEDS S6707WX	30.5	--	--	131.8	--	--	4.7	--	--
STAUFFER SEEDS S6389	30.5	--	--	130.9	--	--	2.9	--	--
*NORTH COAST NC2340	30.5	--	--	149.4	--	--	2.1	--	--
ASGROW RX777	30.5	27	27	116.7	135	134	2.3	4	6
GOLDEN HARVEST H-2500	30.5	28	29	117.1	136	129	3.0	2	3
SUPER CROST 4337	30.7	27	--	133.5	137	--	1.5	2	--
BO-JAC 3910	30.8	--	--	118.6	--	--	3.2	--	--
NORTH COAST NC2415	30.9	--	--	110.6	--	--	1.4	--	--
PAYCO SX900	30.9	28	29	116.0	132	131	1.5	3	4
NORTH COAST NC2412	31.0	--	--	127.5	--	--	3.8	--	--
RENK RK76	31.0	--	--	112.2	--	--	3.8	--	--
SELECT 5177	31.3	--	--	123.3	--	--	0.0	--	--
FUNK G-4435	31.8	28	28	122.5	125	123	2.9	6	4
*GOLDEN HARVEST H-2535	31.8	28	28	147.0	153	141	2.3	2	3
CARGILL 921	31.9	28	28	125.5	138	129	3.0	3	4
*MFI 1900	31.9	28	--	142.3	134	--	2.2	1	--
DEKALB-PFIZER T1100	32.2	28	27	125.9	129	124	4.3	3	3
STAUFFER SEEDS S7759	32.6	--	--	119.9	--	--	1.5	--	--
CROW'S 525	32.7	--	--	104.5	--	--	1.5	--	--
*FUNK 4029X	32.8	--	--	141.2	--	--	4.8	--	--
BO-JAC 6071	34.5	--	--	120.6	--	--	0.0	--	--
AVERAGE	28.5	25	26	129.1	132	128	3.4	4	4
RANGE	23.3	21	21	101.6	111	106	0.0	1	1
	T0	T0	T0	T0	T0	T0	T0	T0	T0
	34.5	28	29	156.1	153	141	10.4	7	7
LEAST SIGNIFICANT DIFFERENCE	1.8	1.1	0.8	11.4	7	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 11	May 27	April 29
HARVESTED	November 7	October 19	October 19
SOIL TYPE	Griffin sandy loam	Griffin sandy loam	Powama clay loam
PREVIOUS CROP	Corn	Wheat	Alfalfa
POPULATION	21,500	21,700	20,200
ROWS	30"	30"	30"
FERTILIZER	176-104-160	168-104-164	165-101-71
SOIL TEST: pH	6.2	6.9	6.6
p	164 (very high)	295 (very high)	361 (very high)
k	424 (very high)	295 (high)	237 (high)

FARM COOPERATOR: Orville Montri, La Salle

COUNTY EXTENSION DIRECTOR: Paul Nevel, Monroe

TABLE 2

SOUTHERN MICHIGAN
HILLSDALE COUNTY TRIAL - IRRIGATED
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
NORTH COAST NC-2050	23.1	--	--	109.3	--	--	5.5	--	--
RUPP XR1520	23.3	--	--	109.4	--	--	5.5	--	--
LOWE 137	23.4	--	--	98.8	--	--	3.0	--	--
CROW'S 181	24.1	--	--	123.9	--	--	1.5	--	--
RUPP XR1591	24.2	21	19	131.2	125	127	8.5	5	7
GREAT LAKES GL-487	24.4	22	--	137.7	135	--	0.0	1	--
PAYCO SX620	24.4	21	--	123.3	122	--	4.0	3	--
PIONEER 3737	25.4	--	--	136.3	--	--	3.1	--	--
PRO-SEED HYLAND HL-2454	25.5	--	--	131.2	--	--	1.5	--	--
DEKALB-PFIZER DK505	25.6	--	--	136.8	--	--	5.0	--	--
PIONEER 3707	25.6	23	22	135.7	142	156	3.0	2	1
GOLDEN GRAIN 560	25.6	--	--	112.2	--	--	5.1	--	--
RUPP XR1601	25.6	--	--	137.0	--	--	2.9	--	--
JACQUES 5400	25.7	--	--	129.6	--	--	6.2	--	--
PARKER 31	25.7	--	--	126.6	--	--	7.1	--	--
CROW'S 199	25.7	22	--	135.5	135	--	2.4	2	--
DEKALB-PFIZER DK484	25.8	22	--	133.0	133	--	4.2	3	--
*FUNK G-4342	25.8	23	22	156.8	135	139	3.5	3	4
NORTH COAST NC-2100	25.8	--	--	141.8	--	--	2.2	--	--
MFI 2000	25.8	--	--	120.6	--	--	1.5	--	--
KING K4474	25.9	22	--	141.7	132	--	3.1	4	--
LOWE 117	26.0	23	20	110.9	109	117	0.0	2	2
DEKALB-PFIZER T950	26.1	23	--	127.3	122	--	2.9	4	--
NORTHUP KING PX9405	26.4	24	--	139.4	132	--	5.2	5	--
AGRIPRO HP-277	26.4	--	--	133.6	--	--	1.5	--	--
AGRIPRO HP-360	26.4	--	--	120.0	--	--	1.4	--	--
CARGILL 861	26.4	23	21	107.6	119	134	7.8	5	4
BO-JAC 14	26.5	22	--	118.8	126	--	5.1	3	--
PRIDE 5523	26.6	--	--	124.5	--	--	3.7	--	--
DEKALB-PFIZER EXP348	26.7	--	--	153.1	--	--	0.0	--	--
WOLVERINE W174A	26.7	24	22	133.5	121	135	3.3	3	2
NORTH COAST NC-2310	26.7	--	--	139.0	--	--	1.5	--	--
*STAUFFER SEEDS S5340	26.9	25	--	156.0	147	--	2.1	2	--
LEADER SX490	26.9	--	--	146.3	--	--	2.9	--	--
NORTHUP KING PX9410	26.9	--	--	136.4	--	--	0.0	--	--
CROW'S 431	27.0	24	--	144.7	140	--	1.5	1	--
FARMER'S FCC224A	27.0	--	--	151.2	--	--	4.8	--	--
P-A-G SX239	27.1	24	--	120.8	112	--	4.3	4	--
KING K4464	27.1	24	--	129.3	118	--	0.7	1	--
*P-A-G SX267	27.2	--	--	166.6	--	--	0.0	--	--
GOLDEN HARVEST H-2448	27.2	25	23	126.3	128	136	2.1	2	1
MFI 1833	27.2	24	--	122.2	121	--	4.1	4	--
STAUFFER SEEDS S5650	27.3	24	22	139.7	139	146	5.9	3	3
WOLVERINE X1110	27.4	--	--	122.5	--	--	2.4	--	--
PIONEER 3744	27.4	23	21	145.7	140	146	0.0	1	3
DEKALB-PFIZER T1000	27.4	24	--	147.8	135	--	3.6	3	--
PRO-SEED HYLAND HL-2803	27.7	--	--	153.7	--	--	0.7	--	--
MFI 1812	27.7	23	--	147.5	140	--	2.4	3	--
RUPP XR1639	27.8	25	23	132.9	140	147	1.6	1	2
ANDERSONS PSX-105	27.8	24	--	137.4	130	--	3.5	2	--
*PIONEER 3540	27.9	--	--	155.6	--	--	3.4	--	--
FARMER'S FCC251	27.9	--	--	146.4	--	--	2.1	--	--
*FUNK 4029A	28.1	--	--	175.3	--	--	0.7	--	--
*PIONEER 3572	28.1	25	23	165.7	155	156	1.6	1	2
*BECK'S 51K	28.1	--	--	156.1	--	--	3.4	--	--
BECK'S 40XT	28.1	--	--	131.1	--	--	2.1	--	--
BO-JAC 381	28.2	25	--	140.8	145	--	2.8	3	--
*LAND O'LAKES LOL-1061	28.3	--	--	156.6	--	--	2.2	--	--
*LEADER LSX525	28.5	--	--	171.5	--	--	2.1	--	--
LEADER LSX530	28.5	--	--	153.3	--	--	3.1	--	--
GREAT LAKES GL-547	28.5	24	--	151.7	133	--	2.1	3	--
CARGILL 874	28.5	--	--	145.8	--	--	3.5	--	--
ANDERSONS PSX-100	28.5	--	--	123.6	--	--	5.6	--	--
PAYCO SX860	28.5	26	24	144.5	133	138	1.5	3	3
AGRIPRO AP-391	28.6	--	--	142.4	--	--	1.5	--	--
BAYLESS SX434H	28.6	--	--	136.1	--	--	2.2	--	--
NORTH COAST NC-2320	28.7	--	--	132.3	--	--	2.2	--	--
GRIES X490	28.8	--	--	139.5	--	--	1.4	--	--
NORTHUP KING PX39	28.8	25	--	145.1	128	--	2.3	2	--
GOLDEN GRAIN 2775	28.9	--	--	128.9	--	--	0.0	--	--
*JACQUES 7700	29.0	25	--	155.4	145	--	1.4	2	--
*GREAT LAKES 5922	29.0	25	24	179.3	159	165	0.0	0	1
PRO-SEED HYLAND HL-2730	29.1	--	--	133.0	--	--	2.3	--	--
DAIRYLAND DX1105	29.1	25	24	140.0	132	146	5.5	3	3
RUPP XR1625	29.2	25	23	123.4	126	139	0.8	1	2
GOLDEN HARVEST H-2480	29.2	25	--	149.5	135	--	2.1	2	--
LEADER SX555	29.3	27	25	141.3	125	128	1.4	1	3
BO-JAC 3910	29.3	--	--	141.3	--	--	1.4	--	--
RUPP XR1707	29.3	--	--	121.9	--	--	2.2	--	--
*FUNK 3026X	29.5	--	--	161.5	--	--	2.9	--	--

TABLE 2 (CONTINUED)

SOUTHERN MICHIGAN
HILLSDALE COUNTY TRIAL - IRRIGATED
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
FUNK G-4323	29.6	26	23	140.0	126	134	2.4	2	1
CARGILL 889	29.6	--	--	143.2	--	--	2.1	--	--
AGRIPRO HP-401	29.7	--	--	130.3	--	--	2.8	--	--
KING K5511	29.9	25	23	131.6	123	134	2.3	1	2
LOWE 237	29.9	25	23	137.5	138	136	6.5	6	6
DAIRYLAND DX1107	29.9	--	--	132.0	--	--	2.2	--	--
CROW'S 444	29.9	--	--	144.9	--	--	2.1	--	--
MFI 1776	29.9	24	--	145.4	135	--	2.1	1	--
*MFI 1900	30.0	26	--	157.5	136	--	0.0	0	--
*GARNO S-102	30.1	26	24	169.9	153	160	0.7	0	1
NORTHUP KING PX9455	30.1	25	--	126.4	117	--	4.3	4	--
NORTH COAST NC-2340	30.1	--	--	154.2	--	--	1.6	--	--
*RUPP XR1690	30.1	25	23	157.5	140	144	2.9	3	4
DEKALB-PFIZER DK556	30.3	25	--	122.7	115	--	1.4	4	--
*GOLDEN HARVEST H-2572	30.3	--	--	156.8	--	--	3.5	--	--
LAND O'LAKES LOL-1071	30.3	--	--	126.2	--	--	4.2	--	--
NORTH COAST NC-2205	30.4	--	--	128.6	--	--	2.2	--	--
DEKALB-PFIZER DK587	30.7	--	--	129.9	--	--	0.8	--	--
*FUNK G-4438	30.7	27	25	155.1	149	155	1.4	1	2
*BO-JAC 601	30.7	--	--	170.5	--	--	0.0	--	--
*SUPER-CROST 5438	30.8	28	--	173.6	157	--	0.8	0	--
AGRIPRO AP-510	30.9	--	--	127.7	--	--	4.2	--	--
DAIRYLAND DX1012	30.9	28	--	125.5	125	--	1.5	2	--
O'S GOLD 2545	31.0	--	--	142.4	--	--	2.1	--	--
*MFI 1984	31.0	--	--	155.8	--	--	0.0	--	--
*STAUFFER SEEDS S7759	31.1	--	--	166.7	--	--	0.0	--	--
*PAYCO SX900	31.1	29	27	173.6	148	156	2.3	2	2
*PAYCO SX700	31.1	--	--	166.6	--	--	5.1	--	--
CROW'S 488	31.2	--	--	132.3	--	--	0.8	--	--
CROW'S 525	31.2	--	--	139.3	--	--	1.6	--	--
DAIRYLAND DX1017	31.3	29	28	134.6	127	144	0.8	1	2
*ANDERSON PSX-110	31.3	--	--	161.3	--	--	4.9	--	--
*MFI 1976	31.3	27	--	162.7	137	--	3.0	3	--
RUPP XR1780	31.4	27	25	127.5	127	139	2.1	2	2
AGRIPRO HP-470	31.5	--	--	151.0	--	--	2.8	--	--
*DEKALB-PFIZER T1100	31.5	28	25	161.2	141	147	2.1	1	1
*O'S GOLD 6882	31.6	27	25	166.7	149	148	1.5	2	3
*BO-JAC 6071	31.7	--	--	168.2	--	--	0.7	--	--
*CARGILL 921	31.7	28	26	160.5	144	148	2.1	1	5
LEADER SX575	31.8	--	--	132.3	--	--	3.6	--	--
BECK'S 63X	31.8	--	--	149.7	--	--	0.7	--	--
CROW'S 666	32.0	--	--	130.3	--	--	3.8	--	--
*PRIDE 6692	32.3	--	--	155.1	--	--	2.9	--	--
AVERAGE	28.4	25	23	140.4	134	143	2.6	2	3
RANGE	23.1	21	19	98.8	109	117	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	32.3	29	28	179.3	159	165	8.5	6	7

LEAST SIGNIFICANT
DIFFERENCE

1.8 1.2 0.7 14.5 9 6 -- -- --

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 10	May 18	May 3
HARVESTED	October 17	October 19	October 19
SOIL TYPE	Hillsdale-Riddles sandy loam	Sibewa-Matherton loam	Sibewa-Matherton loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,200	21,700	21,900
ROWS	30"	30"	30"
FERTILIZER	162-52-262	195-100-103	185-60-180
SOIL TEST: pH	6.6	6.1	6.5
	240 (very high)	66 (medium high)	56 (medium)
	295 (high)	227 (high)	233 (high)
IRRIGATION	11 Inches		

FARM COOPERATORS: Richard Godfrey, Jonesville (1984);
Don and Ed Marshall, Litchfield (1983-1982)

EXTENSION FIELD CROPS AGENT: Natalie Rector, Marshall (1984);

COUNTY EXTENSION DIRECTOR: Jim Pelham, Hillsdale (1983, 1982)

TABLE 3

SOUTHERN MICHIGAN
BRANCH COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
PIONEER 3737	21.7	--	--	145.7	--	--	1.4	--	--
LOWE 117	21.7	--	--	127.8	--	--	2.9	--	--
RUPP XR1601	22.5	--	--	129.3	--	--	3.3	--	--
PIONEER 3744	22.6	21	21	140.4	145	150	2.0	1	1
RUPP XR1520	22.9	--	--	118.0	--	--	2.2	--	--
LOWE 137	23.1	--	--	106.5	--	--	0.0	--	--
PAYCO SX620	23.2	20	--	140.0	127	--	2.8	2	--
DEKALB-PFIZER EXP348	23.3	--	--	137.9	--	--	2.2	--	--
PARKER 31	23.3	--	--	142.1	--	--	4.9	--	--
PRO-SEED HYLAND LG22	23.6	--	--	143.2	--	--	2.2	--	--
RUPP XR1591	23.6	21	21	146.1	145	149	2.9	3	2
PRO-SEED HYLAND HL-2455	23.7	--	--	120.9	--	--	4.5	--	--
*PIONEER 3707	23.8	21	21	158.0	154	163	0.0	0	0
NORTHUP KING PX9410	24.4	--	--	142.5	--	--	0.0	--	--
RENK RK60	24.5	22	--	154.2	154	--	0.0	1	--
JACQUES 5400	24.6	--	--	137.8	--	--	1.5	--	--
MFI 1855	24.6	21	--	154.6	142	--	1.4	3	--
KING K4474	24.8	21	--	129.7	127	--	1.5	3	--
CARGILL 861	24.8	21	21	140.4	137	146	1.4	1	3
AGRI PRO HP-277	24.9	--	--	126.7	--	--	1.4	--	--
MFI 1812	24.9	22	--	128.5	126	--	0.0	1	--
*GREAT LAKES 83452	25.1	--	--	159.8	--	--	0.0	--	--
*P-A-G SX267	25.1	--	--	157.9	--	--	2.1	--	--
AGRI PRO HP-360	25.1	--	--	139.3	--	--	2.9	--	--
P-A-G SX239	25.2	22	--	151.5	135	--	3.5	3	--
AGRI PRO HP-401	25.2	--	--	148.1	--	--	2.3	--	--
PRO-SEED HYLAND HL-2803	25.2	--	--	156.2	--	--	2.8	--	--
LAND O'LAKES LOL-1061	25.4	--	--	147.9	--	--	2.3	--	--
STAUFFER SEEDS S5650	25.5	23	22	137.2	139	150	1.5	1	2
*PIONEER 3540	25.5	--	--	159.1	--	--	0.0	--	--
PARKER 32	25.5	--	--	141.2	--	--	1.4	--	--
PAYCO SX700	25.6	--	--	134.4	--	--	0.8	--	--
GOLDEN HARVEST H-2572	25.6	--	--	145.2	--	--	1.4	--	--
MFI 1833	25.6	22	--	122.3	124	--	0.0	2	--
FUNK G-4342	25.7	23	23	145.9	143	152	4.3	4	4
NORTHUP KING PX9405	25.7	--	--	133.9	--	--	0.7	--	--
*NORTHUP KING PX39	25.7	22	21	162.9	156	165	0.7	2	1
PRIDE 5523	25.7	--	--	126.7	--	--	2.9	--	--
SELECT 3720	25.7	--	--	143.9	--	--	1.4	--	--
CARGILL 874	25.7	--	--	155.3	--	--	2.1	--	--
LAND O'LAKES LOL-1071	25.7	--	--	119.1	--	--	3.5	--	--
CUSTOM CFS 5801	25.7	23	--	137.9	143	--	0.0	1	--
GREAT LAKES GL-547	25.8	23	--	196.9	154	--	2.8	2	--
AGRI PRO AP-391	25.8	--	--	135.5	--	--	1.4	--	--
PRO-SEED HYLAND HL-2730	25.8	--	--	135.7	--	--	0.7	--	--
*O'S GOLD 2450	25.8	23	--	165.6	152	--	0.0	2	--
*STAUFFER SEEDS S5340	25.9	23	--	174.8	163	--	3.6	2	--
STAUFFER SEEDS S5750	25.9	--	--	137.7	--	--	1.7	--	--
*FUNK G-4323	25.9	22	21	159.1	154	166	0.8	0	1
*GREAT LAKES GL-579	25.9	--	--	163.1	--	--	2.1	--	--
NORTHUP KING PX9455	25.9	23	--	135.1	130	--	0.0	1	--
GOLDEN GRAIN 252	25.9	--	--	105.8	--	--	1.4	--	--
*CARGILL 889	25.9	--	--	159.3	--	--	5.1	--	--
*RUPP XR1639	25.9	23	23	160.8	144	158	0.0	1	1
*DEKALB-PFIZER XL-55A	26.0	24	22	164.4	160	170	0.0	2	4
LEADER LSX530	26.0	--	--	143.9	--	--	0.0	--	--
DEKALB-PFIZER DK484	26.1	22	--	123.3	122	--	1.4	2	--
LEADER LSX490	26.1	23	22	129.0	139	143	0.0	1	2
DAIRYLAND DX1008	26.1	23	--	144.6	140	--	0.0	1	--
*RUPP XR1690	26.1	23	22	157.3	148	154	0.7	1	2
BO-JAC 3910	26.2	--	--	128.6	--	--	1.1	--	--
BECK'S 511X	26.2	--	--	151.6	--	--	1.5	--	--
*FUNK 3026X	26.4	--	--	159.5	--	--	0.0	--	--
DEKALB-PFIZER T1000	26.4	23	--	145.9	140	--	2.1	2	--
FARMERS FCC224A	26.4	23	22	134.3	136	146	6.3	5	6
KING K4464	26.5	23	--	137.4	124	--	0.0	0	--
LOWE 237	26.5	--	--	147.3	--	--	2.0	--	--
PAYCO SX872	26.5	23	--	136.2	137	--	2.2	1	--
FARMERS FCC251	26.5	24	--	150.1	148	--	2.1	2	--
*RENK RK64	26.6	--	--	164.5	--	--	2.3	--	--
RUPP XR1707	26.6	--	--	125.5	--	--	0.0	--	--
LEADER LSX525	26.7	--	--	153.3	--	--	1.4	--	--
*BO-JAC 432	26.8	24	23	170.5	161	164	2.9	2	2
PAYMASTER 4660	26.8	--	--	137.0	--	--	0.0	--	--
STAUFFER SEEDS S6389	26.9	--	--	154.0	--	--	0.7	--	--
*SELECT 3300	26.9	24	23	161.1	151	159	1.5	1	1
*SELECT 5040	26.9	--	--	158.1	--	--	1.4	--	--
DAIRYLAND DX1107	26.9	--	--	143.4	--	--	0.0	--	--
PAYMASTER 4790	27.0	24	23	150.1	146	160	5.6	3	3
GOLDEN HARVEST H-2448	27.0	23	22	132.0	141	154	3.1	4	3

TABLE 3 (CONTINUED)

SOUTHERN MICHIGAN
BRANCH COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
KING K5511	27.1	23	22	135.4	133	145	2.9	3	3
PAYCO SX822	27.1	--	--	131.0	--	--	0.0	--	--
*RENK RK75	27.2	24	24	166.1	157	160	2.1	2	2
GOLDEN GRAIN 2570	27.3	--	--	139.3	--	--	2.1	--	--
GOLDEN HARVEST H-2480	27.3	23	--	149.3	137	--	1.4	2	--
RUPP XR1780	27.4	25	24	140.6	142	161	1.5	2	2
PAYCO SX860	27.4	25	24	154.9	147	165	1.4	1	2
MFI 1900	27.5	25	--	130.0	121	--	2.1	3	--
*GARNO S-102	27.6	24	23	162.4	160	170	0.0	0	1
*P-A-G SX275	27.6	24	--	165.4	153	--	2.8	2	--
SELECT 4700	27.6	24	22	152.0	153	162	1.5	3	2
FUNK G-4438	27.7	24	24	135.0	143	160	3.1	2	3
*SELECT 4800	27.7	25	24	170.7	168	175	2.8	3	3
*GREAT LAKES 5922	27.7	24	23	167.2	163	173	0.0	0	2
*BO-JAC 452	27.8	--	--	162.2	--	--	2.9	--	--
CARGILL 921	27.8	25	24	153.6	141	152	1.5	2	2
RENK RK66	27.8	24	23	153.8	150	158	0.7	1	2
CUSTOM CFS W651	27.8	--	--	142.3	--	--	3.6	--	--
MFI 1984	27.8	--	--	159.7	--	--	0.7	--	--
AGRI PRO AP-510	27.9	--	--	151.4	--	--	0.0	--	--
ASGROW RX777	28.0	25	24	143.0	151	166	0.7	2	1
CARGILL 891	28.0	24	--	138.2	143	--	0.0	1	--
RUPP XR1625	28.0	24	23	156.1	142	146	0.8	2	2
BECK'S 49X	28.0	25	--	136.6	143	--	4.4	3	--
*BECK'S 63X	28.0	--	--	165.4	--	--	0.0	--	--
AGRI PRO HP-470	28.1	--	--	149.1	--	--	2.1	--	--
RENK RK76	28.1	26	--	148.1	145	--	1.4	2	--
*SUPER CROST 4304	28.2	--	--	174.8	--	--	1.4	--	--
JACQUES 7700	28.3	--	--	127.9	--	--	1.4	--	--
*DEKALB-PFIZER T1100	28.4	25	24	159.2	154	163	0.0	1	1
PRIDE 6692	28.5	--	--	127.8	--	--	3.7	--	--
DAIRYLAND DX1012	28.5	26	--	155.1	150	--	0.0	1	--
*O'S GOLD 6882	28.5	25	24	163.8	155	168	0.7	1	1
DEKALB-PFIZER DK587	28.6	--	--	137.5	--	--	0.0	--	--
SUPER CROST 5438	28.6	26	--	146.5	154	--	0.7	1	--
*LEADER SX575	28.6	--	--	158.0	--	--	2.8	--	--
MFI 1976	28.7	--	--	126.9	--	--	6.0	--	--
*LYNKS LX4315	28.9	26	24	159.8	156	169	0.8	2	2
*PAYCO SX900	29.0	27	26	158.8	154	176	1.4	1	1
GOLDEN HARVEST H-2535	29.0	26	--	145.7	148	--	0.0	1	--
*CROW'S 666	29.3	--	--	166.6	--	--	0.0	--	--
BO-JAC 6071	29.5	--	--	129.6	--	--	2.9	--	--
*BO-JAC 603	29.6	--	--	167.9	--	--	2.0	--	--
*DAIRYLAND DX1017	29.7	27	26	158.5	163	180	0.0	1	1
*BECK'S 65X	29.7	27	--	162.0	157	--	0.0	1	--
ANDERSONS PSX-105	29.8	24	--	125.7	129	--	0.0	0	--
SUPER CROST 4337	30.2	27	25	142.0	145	153	0.0	1	1
AVERAGE	26.2	24	23	143.4	145	160	0.4	2	2
RANGE	21.7	20	21	105.8	121	143	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	30.2	27	26	174.8	168	180	6.3	5	6
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	0.8	13.7	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 12	May 18	April 30
HARVESTED	October 18	October 18	October 20
SOIL TYPE	Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,700	21,400	21,200
ROWS	30"	30"	30"
FERTILIZER	174-83-0	175-64-0	177-69-60
SOIL TEST: pH	6.5	6.3	6.8
p	261 (very high)	185 (very high)	264 (very high)
k	211 (medium high)	227 (high)	276 (high)

FARM COOPERATORS: David La Bar, Union City (1984);
George Matthews, Union City (1983, 1982)

COUNTY EXTENSION DIRECTOR: Ray Fast, Coldwater

TABLE 4

SOUTHERN MICHIGAN
KALAMAZOO COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
SELECT 2440	23.0	22	--	43.7	67	--	3.8	3	--
RUPP XR1520	23.6	--	--	47.5	--	--	11.4	--	--
PAYCO SX620	23.6	22	--	45.2	58	--	6.3	6	--
LOWE 117	23.7	22	--	57.1	61	--	3.7	4	--
KING K4474	24.1	23	--	73.9	84	--	7.4	7	--
DEKALB-PFIZER EXP348	25.1	--	--	65.0	--	--	2.9	--	--
ANDERSONS PSX-93	25.3	--	--	76.3	--	--	2.3	--	--
CROW'S 181	25.5	--	--	47.6	--	--	4.7	--	--
LOWE 137	25.7	--	--	53.0	--	--	2.3	--	--
RUPP XR1591	25.7	23	21	49.8	62	88	8.7	6	5
DEKALB-PFIZER T950	25.8	23	--	56.8	64	--	8.2	8	--
CROW'S 199	25.8	23	21	60.2	72	89	2.2	2	3
ASGROW RX532	26.0	24	--	47.6	63	--	5.4	4	--
KING K4422	26.0	24	22	61.0	71	86	5.5	4	3
*PIONEER 3707	26.2	24	22	79.3	102	116	7.9	5	6
RUPP XR1601	26.2	--	--	66.8	--	--	5.2	--	--
PAYCO SX700	26.2	--	--	50.9	--	--	2.3	--	--
LAND O'LAKES LOL-1061	26.2	--	--	52.9	--	--	8.5	--	--
PIONEER 3747	26.3	24	--	67.5	84	--	3.6	3	--
*AGRIPRO HP-277	26.3	--	--	78.7	--	--	5.6	--	--
FUNK G-4342	26.4	24	23	61.7	70	95	3.8	3	5
PIONEER 3737	26.4	--	--	75.0	--	--	14.0	--	--
PAYMASTER 2990	26.4	25	23	51.7	74	96	9.5	8	8
PRIDE 5523	26.5	--	--	46.6	--	--	8.8	--	--
STAUFFER SEEDS S4402	26.6	24	21	50.1	62	89	15.7	11	7
NORTHROP KING PX9405	26.6	25	--	60.9	69	--	4.3	6	--
KING K4464	26.7	25	--	53.1	65	--	9.2	7	--
*MFI 1833	26.7	25	--	86.5	96	--	3.2	5	--
AGRIPRO HP-360	26.8	--	--	41.5	--	--	16.7	--	--
DEKALB-PFIZER T1000	26.8	25	--	62.9	72	--	6.4	8	--
P-A-G SX193	26.9	--	--	42.8	--	--	7.6	--	--
*PIONEER 3540	26.9	--	--	79.2	--	--	2.3	--	--
CARGILL 861	27.0	24	22	76.2	72	91	1.5	5	6
MFI 1812	27.0	25	--	47.5	67	--	2.2	5	--
PAYMASTER 2890	27.2	--	--	57.4	--	--	5.7	--	--
STAUFFER SEEDS S5340	27.3	26	--	68.9	81	--	7.6	6	--
DEKALB-PFIZER DK484	27.3	24	--	58.7	68	--	7.0	6	--
PIONEER 3572	27.3	25	23	70.9	96	117	3.1	2	3
STAUFFER SEEDS S5650	27.4	26	24	59.5	76	99	6.3	6	6
NORTHROP KING PX9455	27.6	25	--	62.9	74	--	3.3	2	--
BO-JAC 3910	27.6	--	--	69.0	--	--	1.6	--	--
*CARGILL 889	27.6	--	--	89.3	--	--	8.2	--	--
STAUFFER SEEDS S5722WX	27.7	--	--	70.0	--	--	8.9	--	--
*NATIONAL NA-1006	27.7	--	--	80.7	--	--	2.2	--	--
STAUFFER SEEDS S5750	27.8	--	--	74.5	--	--	2.2	--	--
*P-A-G SX267	27.8	--	--	84.0	--	--	4.4	--	--
*SELECT 3720	27.8	--	--	89.4	--	--	7.5	--	--
*SELECT 3300	27.8	26	24	91.2	96	109	6.0	5	4
CARGILL 867	27.8	26	--	49.8	69	--	5.3	4	--
ANDERSONS PSX-100	27.8	--	--	49.7	--	--	4.7	--	--
*GREAT LAKES GL-579	28.0	--	--	85.3	--	--	5.6	--	--
GOLDEN HARVEST H-2445	28.0	--	--	64.9	--	--	7.8	--	--
FUNK G-4323	28.1	25	23	58.3	72	99	0.8	2	2
LOWE 237	28.1	--	--	60.7	--	--	6.1	--	--
STAUFFER SEEDS S5260	28.2	--	--	62.7	--	--	2.3	--	--
*DEKALB-PFIZER XL-55A	28.2	27	24	82.7	96	120	0.7	2	3
*JACQUES 7700	28.2	--	--	78.5	--	--	4.6	--	--
AGRIPRO AP-391	28.2	--	--	67.8	--	--	4.3	--	--
RUPP XR1625	28.2	26	24	63.6	77	101	2.2	2	4
P-A-G SX239	28.4	26	--	67.5	82	--	6.5	6	--
O'S GOLD 1170A	28.4	26	24	57.9	76	98	5.2	4	4
*GOLDEN HARVEST H-2448	28.5	26	24	91.0	101	115	2.9	2	4
BECK'S 60X	28.5	27	25	54.3	88	103	2.2	5	5
GOLDEN GRAIN 2570	28.6	--	--	75.9	--	--	3.1	--	--
FARMERS FCC224A	28.6	--	--	53.5	--	--	1.5	--	--
GRIES X490	28.7	--	--	63.7	--	--	3.1	--	--
PAYCO SX872	28.7	27	--	56.3	72	--	4.3	5	--
DEKALB-PFIZER DK505	28.8	--	--	58.4	--	--	5.3	--	--
RUPP XR1707	28.8	--	--	65.1	--	--	5.2	--	--
ANDERSONS PSX-105	28.8	27	--	75.1	78	--	0.7	3	--
*CROW'S 431	28.8	26	--	78.6	93	--	3.8	2	--
LAND O'LAKES LOL-1071	28.8	--	--	74.1	--	--	0.8	--	--
MFI 1776	28.8	--	--	62.6	--	--	3.0	--	--
*FUNK 3026X	28.9	--	--	95.3	--	--	1.5	--	--
*RUPP XR1639	28.9	26	24	84.8	94	109	8.8	7	7
CROW'S 444	28.9	26	24	72.2	90	109	3.7	2	4
VORIS V2471	28.9	--	--	68.2	--	--	4.5	--	--
FARMERS FCC251	28.9	--	--	71.7	--	--	3.7	--	--
*BECK'S 49X	28.9	--	--	91.0	--	--	0.0	--	--
GREAT LAKES 5922	28.9	27	25	76.8	99	116	2.5	2	2

TABLE 4 (CONTINUED)

SOUTHERN MICHIGAN
KALAMAZOO COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
DAIRYLAND DX1107	29.0	--	--	65.8	--	--	3.3	--	--
CARNO S-102	29.1	27	25	77.4	97	116	0.8	1	2
*NORTHROP KING PX9410	29.1	--	--	56.5	--	--	2.5	--	--
DAIRYLAND DX1105	29.1	27	24	52.0	74	100	5.7	4	5
STAUFFER SEEDS S6389	29.3	--	--	59.3	--	--	6.6	--	--
CARGILL 921	29.3	28	--	60.5	80	--	2.3	2	--
*DAIRYLAND DX1017	29.3	28	--	92.7	112	--	0.8	2	--
*BECK'S 63X	29.4	--	--	89.0	--	--	2.3	--	--
AGRIPRO HP-A01	29.6	--	--	69.6	--	--	0.7	--	--
AGRIPRO HP-A70	29.6	--	--	52.4	--	--	3.8	--	--
BO-JAC 381	29.6	27	--	70.9	87	--	5.3	5	--
*GOLDEN HARVEST H-2572	29.6	--	--	93.0	--	--	5.5	--	--
*VORIS V2451	29.7	26	--	83.0	89	--	1.5	3	--
*NORTHROP KING PX39	29.8	27	24	79.7	92	118	1.6	2	3
*AGRIPRO AP-510	29.8	--	--	78.4	--	--	1.5	--	--
*BO-JAC 601	29.8	28	--	90.5	111	--	0.7	3	--
*CUSTOM CFS 5801	29.8	--	--	80.6	--	--	5.9	--	--
SUPER CROST 4304	29.9	--	--	62.2	--	--	3.1	--	--
DAIRYLAND DX1012	29.9	30	27	63.8	82	98	2.4	5	6
*RUPP XR1690	29.9	--	--	94.1	--	--	9.0	--	--
ANDERSONS PSX-110	29.9	--	--	84.3	--	--	0.8	--	--
*DEKALB-PFIZER DK587	30.0	--	--	81.1	--	--	4.2	--	--
BECK'S 65X	30.0	29	--	56.7	88	--	1.5	2	--
PAYCO SX822	30.1	--	--	58.5	--	--	0.8	--	--
GOLDEN GRAIN 2775	30.3	--	--	77.2	--	--	3.8	--	--
PAYCO SX900	30.3	29	27	64.8	98	119	3.6	3	3
CUSTOM CFS W7651	30.3	--	--	49.0	--	--	3.7	--	--
*SELECT 5040	30.4	--	--	82.2	--	--	0.8	--	--
MFI 1900	30.4	29	--	67.8	87	--	2.9	3	--
PRIDE 6692	30.5	--	--	64.2	--	--	5.9	--	--
*O'S GOLD 2545	30.5	--	--	81.5	--	--	6.1	--	--
*O'S GOLD 6882	30.5	28	25	63.7	88	110	1.0	3	2
BO-JAC 6071	30.6	--	--	63.1	--	--	1.5	--	--
CROW'S 488	30.8	--	--	77.6	--	--	5.6	--	--
SUPER CROST 4337	30.9	28	--	72.8	85	--	3.0	4	--
SUPER CROST 5438	31.0	29	--	54.7	91	--	1.6	3	--
SELECT 4650	31.0	--	--	58.7	--	--	3.7	--	--
MFI 1984	31.0	--	--	62.0	--	--	1.5	--	--
RUPP XR1780	31.1	--	--	72.0	--	--	6.5	--	--
*PAYCO SX860	31.1	29	26	88.3	106	120	2.8	4	4
STAUFFER SEEDS S6707WX	31.5	--	--	53.8	--	--	3.0	--	--
GREAT LAKES GL-608	31.5	--	--	72.5	--	--	3.6	--	--
FUNK G-4438	31.7	28	26	72.4	95	114	5.0	3	3
JACQUES 7900	32.3	--	--	66.8	--	--	3.0	--	--
*DEKALB-PFIZER T1100	32.4	29	26	86.1	89	103	1.5	3	6
CROW'S 525	32.8	--	--	67.9	--	--	1.8	--	--
AVERAGE	28.3	26	24	68.1	82	105	4.4	4	4
RANGE	23.0	22	21	41.5	58	86	0.0	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	32.8	30	27	95.3	112	120	16.7	11	8
LEAST SIGNIFICANT DIFFERENCE	1.9	1.1	0.7	10.2	8	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 10	May 12	May 4
HARVESTED	October 19	October 18	October 22
SOIL TYPE	Kalamazoo loam	Kalamazoo loam	Kalamazoo loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,400	21,300	21,700
ROWS	30"	30"	30"
FERTILIZER	122-48-114	122-48-114	122-39-39
SOIL TEST: pH	5.8	5.9	5.8
p	166 (very high)	124 (very high)	67 (medium high)
k	336 (very high)	286 (high)	82 (low)

FARM COOPERATOR: Richard Van Vrancken, Climex

COUNTY AGRICULTURAL AGENT: Maurice Kaercher, Kalamazoo

TABLE 5

SOUTHERN MICHIGAN
CASS COUNTY TRIAL - IRRIGATED UPLAND SOIL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
RUPP XR1520	21.3	--	--	112.0	--	--	3.7	--	--
AGRIPRO HP-360	23.0	--	--	158.6	--	--	3.0	--	--
AGRIPRO HP-266	23.3	--	--	141.4	--	--	1.4	--	--
RUPP XR1601	23.5	--	--	142.8	--	--	1.4	--	--
RUPP XR1591	23.5	21	20	128.0	135	134	0.0	4	5
CROW'S 199	23.9	21	20	151.4	144	147	4.2	4	4
PAYCO SX700	24.0	--	--	125.3	--	--	4.4	--	--
GOLDEN HARVEST H-2424	24.0	--	--	129.2	--	--	1.4	--	--
DEKALB-PFIZER DK505	24.2	--	--	151.9	--	--	3.5	--	--
ASGROW RX532	24.2	21	--	143.2	142	--	2.1	7	--
PIONEER 3737	24.4	--	--	154.2	--	--	6.8	--	--
KING K4474	24.4	21	--	162.0	139	--	2.8	6	--
DEKALB-PFIZER DK556	24.7	22	--	151.2	149	--	2.2	3	--
ANDERSONS PSX-108	24.8	23	--	161.5	156	--	5.8	4	--
DEKALB-PFIZER DK484	24.9	22	--	156.4	157	--	4.4	4	--
PAYCO SX822	24.9	--	--	138.6	--	--	2.8	--	--
LAND O'LAKES L0L-1061	25.0	--	--	138.4	--	--	2.0	--	--
MFI 2000	25.0	--	--	129.6	--	--	0.0	--	--
P-A-G SX267	25.1	--	--	159.7	--	--	0.7	--	--
PARKER 32	25.1	22	--	145.8	139	--	1.6	8	--
MFI 1855	25.1	22	--	134.2	144	--	2.9	7	--
STAUFFER SEEDS S5722WX	25.2	--	--	150.4	--	--	2.2	--	--
*DEKALB-PFIZER XL-55A	25.2	22	22	180.8	172	179	0.7	3	4
PIONEER 3707	25.2	23	21	167.8	173	173	2.3	2	3
*PIONEER 3540	25.2	--	--	176.0	--	--	2.1	--	--
AGRIPRO HP-277	25.2	--	--	142.0	--	--	1.5	--	--
DAIRYLAND DX1006	25.2	22	--	152.6	153	--	3.5	4	--
DEKALB-PFIZER DK447	25.3	--	--	135.1	--	--	4.3	--	--
*GREAT LAKES GL-547	25.3	22	--	175.0	169	--	4.5	4	--
SUPER CROST 3030	25.5	22	22	153.7	144	152	6.1	6	5
P-A-G SX239	25.5	22	--	151.4	147	--	2.1	5	--
DEKALB-PFIZER T1000	25.5	22	21	166.5	153	147	0.7	4	8
CALLAHAN C744	25.5	22	--	142.9	139	--	1.4	4	--
FUNK G-4342	25.6	23	22	154.5	157	156	1.4	2	3
GREAT LAKES 83452	25.7	--	--	173.0	--	--	0.0	--	--
LYNKS LX4225	25.7	24	23	150.9	158	169	0.7	2	2
*PRO-SEED HYLAND HL-2803	25.8	--	--	177.6	--	--	2.7	--	--
*PRAIRIE STREAM SX350	25.8	--	--	175.4	--	--	2.1	--	--
FARMERS FCC224A	25.8	22	21	142.4	143	153	3.4	3	5
BECK'S 51X	25.9	--	--	167.7	--	--	0.7	--	--
FUNK G-4323	26.0	22	22	151.7	147	152	0.0	3	5
KING K4464	26.0	23	--	142.1	134	--	1.5	5	--
*DAIRYLAND DX1107	26.0	--	--	177.6	--	--	0.0	--	--
*PARKER 60A	26.0	24	23	185.2	167	176	2.2	2	3
*CARGILL 874	26.1	--	--	175.6	--	--	0.0	--	--
CROW'S 431	26.1	23	--	134.3	141	--	3.6	4	--
VORIS V2471	26.1	--	--	163.1	--	--	1.4	--	--
LAND O'LAKES L0L-1071	26.1	--	--	144.1	--	--	2.9	--	--
CALLAHAN X17985	26.1	--	--	154.2	--	--	4.2	--	--
BO-JAC 381	26.2	--	--	162.2	--	--	2.1	--	--
DAIRYLAND DX1008	26.2	23	22	143.2	142	148	3.7	4	4
RENK RK60	26.2	--	--	164.7	--	--	0.7	--	--
ANDERSONS PSX-105	26.2	23	--	149.9	155	--	2.9	4	--
CUSTOM CFS 5801	26.2	--	--	148.1	--	--	1.5	--	--
MFI 1812	26.2	23	--	156.4	160	--	4.1	5	--
*STAUFFER SEEDS S5340	26.3	23	--	188.5	171	--	0.0	1	--
*JACQUES 7700	26.3	--	--	176.8	--	--	0.7	--	--
GREAT LAKES GL-579	26.3	23	--	167.5	162	--	0.7	2	--
AGRIPRO AP-391	26.3	--	--	165.7	--	--	0.7	--	--
*RUPP XR1639	26.3	23	22	184.4	174	173	2.1	3	3
STAUFFER SEEDS S5650	26.4	23	22	158.7	154	163	1.5	2	1
STAUFFER SEEDS S5750	26.4	--	--	140.5	--	--	2.1	--	--
*PIONEER 3572	26.4	23	22	176.3	163	173	0.7	1	1
RENK RK64	26.5	--	--	167.7	--	--	1.4	--	--
*RENK RK75	26.6	--	--	195.2	--	--	1.4	--	--
*PAYCO SX872	26.6	23	--	177.9	157	--	2.2	3	--
*FARMERS FCC251	26.6	23	--	176.9	175	--	5.5	6	--
*FUNK 3026X	26.7	--	--	175.5	--	--	4.5	--	--
CARGILL 889	26.8	--	--	162.8	--	--	1.4	--	--
GOLDEN HARVEST H-2448	26.8	23	22	159.3	153	155	1.4	2	2
BO-JAC 3910	27.0	--	--	153.8	--	--	3.5	--	--
*SELECT 4144	27.0	--	--	175.8	--	--	1.5	--	--
CROW'S 444	27.0	24	23	157.1	157	157	0.0	2	3
*GREAT LAKES 5922	27.0	24	23	175.3	169	179	0.8	0	2
CARGILL 891	27.1	24	--	163.2	159	--	2.9	3	--
SELECT 3720	27.2	--	--	167.8	--	--	3.7	--	--
*BECK'S 63X	27.2	--	--	194.5	--	--	1.4	--	--
CALLAHAN X18457	27.2	--	--	161.3	--	--	0.7	--	--
RUPP XR1707	27.3	--	--	141.0	--	--	0.7	--	--
*CUSTOM CFS EW95013	27.3	--	--	190.9	--	--	0.7	--	--

TABLE 5 (CONTINUED)

SOUTHERN MICHIGAN
CASS COUNTY TRIAL - IRRIGATED UPLAND SOIL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 1

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
BECK'S 49X	27.3	23	22	143.0	154	164	2.1	2	2
FUNK 4029X	27.4	--	--	152.9	--	--	3.7	--	--
AGRIPRO HP-401	27.4	--	--	157.7	--	--	2.1	--	--
RUPP XR1690	27.4	24	22	150.4	142	151	2.8	3	3
PAYMASTER 4790	27.5	24	22	167.0	158	164	0.0	2	2
RUPP XR1625	27.5	--	--	163.4	--	--	0.0	--	--
BO-JAC 601	27.6	25	--	169.7	175	--	0.7	1	--
*OIS GOLD 2545	27.7	--	--	179.2	--	--	2.2	--	--
P-A-G SX275	27.8	24	--	164.3	164	--	3.5	4	--
AGRIPRO HP-470	27.8	--	--	163.9	--	--	2.8	--	--
DEKALB-PFIZER DK587	27.9	--	--	160.6	--	--	3.0	--	--
*AGRIPRO AP-510	27.9	--	--	187.7	--	--	1.5	--	--
SELECT 4700	28.0	24	23	145.0	147	154	2.1	5	6
MFI 1976	28.1	25	--	149.6	146	--	3.7	5	--
*FUNK G-4438	28.2	25	24	175.3	172	176	2.8	3	4
*CARGILL 921	28.2	25	24	175.9	172	179	0.0	2	4
PRAIRIE STREAM SX578	28.3	--	--	145.9	--	--	5.2	--	--
*RENK RK76	28.3	--	--	175.2	--	--	0.7	--	--
VORIS V2401	28.3	25	24	161.2	151	162	6.5	4	3
SUPER CROST 4304	28.4	--	--	159.7	--	--	5.8	--	--
SELECT 4800	28.4	25	24	164.7	160	172	1.4	3	2
*CUSTOM CFS W7651	28.5	--	--	176.0	--	--	4.8	--	--
FUNK G-4435	28.6	25	24	150.5	161	170	3.7	3	3
DAIRYLAND DX1012	28.6	--	--	165.4	--	--	1.4	--	--
*RUPP XR1780	28.6	25	24	175.5	162	162	3.4	4	3
*BECK'S 60X	28.6	25	24	177.1	171	171	3.4	2	4
*BO-JAC 6071	28.7	--	--	191.0	--	--	0.0	--	--
*CROW'S 666	28.7	--	--	183.3	--	--	3.6	--	--
GARNO S-1020	28.8	--	--	159.6	--	--	0.0	--	--
BO-JAC 452	28.9	25	24	169.2	172	176	3.4	3	3
ANDERSONS PSX-110	28.9	--	--	166.6	--	--	2.1	--	--
*LEADER SX575	29.0	25	24	175.2	163	167	1.4	2	2
*BECK'S 65X	29.1	26	25	186.6	182	193	1.5	1	1
STAUFFER SEEDS S6595	29.2	--	--	156.4	--	--	4.5	--	--
*SELECT 5188	29.3	26	25	187.5	172	185	0.0	1	2
STAUFFER SEEDS S6707WX	29.4	--	--	154.9	--	--	2.1	--	--
CALLAHAN C766	29.4	25	--	166.8	169	--	3.5	3	--
FUNK G-4514	29.5	--	--	148.5	--	--	1.4	--	--
GREAT LAKES GL-608	29.5	--	--	157.2	--	--	6.9	--	--
CARGILL 937	29.5	--	--	165.2	--	--	2.2	--	--
*DEKALB-PFIZER T1100	29.5	25	25	183.4	164	164	4.1	5	3
PAYCO SX900	29.8	26	25	167.2	167	180	2.9	2	1
PAYCO SX860	30.0	26	25	163.7	158	171	2.1	3	3
OIS GOLD 6882	30.2	26	24	143.0	155	167	3.5	4	4
*JACQUES 7900	30.6	--	--	174.9	--	--	0.8	--	--
AVERAGE	26.7	23	23	160.4	157	165	2.1	3	3
RANGE	21.3	21	20	112.0	134	134	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	30.6	26	25	195.2	182	193	6.9	8	8

LEAST SIGNIFICANT

DIFFERENCE

1.9 1.0 0.8

14.2

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*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 12	May 12	May 11
HARVESTED	October 20	October 17	October 25
SOIL TYPE	Oshkemo sandy loam	Oshkemo sandy loam	Oshkemo sandy loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,800	23,400	23,500
ROWS	30"	30"	30"
FERTILIZER	200-40-5+Zinc	224-80-103	214-80-103+manure
IRRIGATION	8 inches	11 inches	4 inches
SOIL TEST: pH	6.2	6.4	6.8
p	189 (very high)	206 (very high)	96 (high)
k	295 (high)	396 (very high)	315 (very high)

FARM COOPERATOR: Dave Cripe, Cassopolis

COUNTY AGRICULTURAL AGENT: Wayne Hothem, Cassopolis

TABLE 6 SOUTHERN MICHIGAN
CASS COUNTY TRIAL - MUCK SOIL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
PARKER 190	21.6	--	--	117.0	--	--	4.3	--	--
LOWE 137	22.0	--	--	119.3	--	--	0.0	--	--
RUPP XR1601	22.5	--	--	122.7	--	--	3.5	--	--
ANDERSONS PSX-93	22.7	20	--	129.8	105	--	0.0	1	--
GOLDEN HARVEST H-2300	22.8	21	24	122.9	105	94	1.4	3	3
PAYCO SX620	22.9	21	--	132.4	109	--	2.1	2	--
FUNK G-4256	23.1	22	24	116.3	99	103	2.6	5	6
GOLDEN HARVEST EX706	23.1	--	--	117.0	--	--	2.1	--	--
FUNK 2011X	23.2	--	--	131.2	--	--	3.4	--	--
P-A-G SX180	23.3	--	--	123.4	--	--	3.4	--	--
DAIRYLAND DX1001	23.3	--	--	119.8	--	--	6.4	--	--
RENN RK17	23.3	--	--	118.6	--	--	0.7	--	--
KING K4422	23.4	22	--	136.3	119	--	1.4	2	--
*LYNKS LX4075	23.4	22	24	143.7	121	119	2.2	3	3
AGRIPRO HP-266	23.6	--	--	130.9	--	--	4.2	--	--
RENN RK19	23.7	--	--	124.2	--	--	2.1	--	--
*DEKALB-PFIZER T950	23.7	22	--	139.9	123	--	8.3	7	--
DEKALB-PFIZER XL25A	23.8	23	26	136.9	110	102	4.8	3	2
ASGROW RX480	23.8	--	--	110.8	--	--	5.2	--	--
*GREAT LAKES GL-487	24.0	--	--	141.2	--	--	1.4	--	--
*PIONEER 3737	24.0	--	--	139.8	--	--	2.7	--	--
RUPP XR1520	24.0	--	--	122.8	--	--	3.4	--	--
GOLDEN HARVEST EX638	24.0	--	--	116.8	--	--	2.0	--	--
P-A-G SX193	24.1	23	--	128.9	108	--	4.1	5	--
*KING K4423	24.1	22	--	147.4	118	--	3.6	3	--
RUPP XR1591	24.1	--	--	137.2	--	--	2.9	--	--
DEKALB-PFIZER DK505	24.2	--	--	132.6	--	--	1.4	--	--
AGRIPRO HP-277	24.2	--	--	122.2	--	--	2.1	--	--
PIONEER 3744	24.3	--	--	130.9	--	--	1.5	--	--
ASGROW RX532	24.3	23	--	116.4	105	--	7.5	5	--
GOLDEN GRAIN 252	24.3	--	--	106.7	--	--	4.4	--	--
DAIRYLAND DX1107	24.3	--	--	120.5	--	--	5.0	--	--
*PAYCO SX872	24.3	23	--	139.9	117	--	2.8	3	--
KING K4474	24.4	--	--	134.9	--	--	5.1	--	--
*RUPP XR1639	24.4	23	26	143.7	122	111	1.4	1	1
DEKALB-PFIZER DK447	24.5	--	--	136.4	--	--	4.9	--	--
*DEKALB-PFIZER DK484	24.5	22	--	142.8	118	--	2.9	3	--
PAYCO SX700	24.5	--	--	133.1	--	--	4.8	--	--
GRIBS X490	24.6	--	--	135.2	--	--	2.1	--	--
VORIS V2471	24.7	--	--	120.0	--	--	0.8	--	--
*DAIRYLAND DX1006	24.8	24	26	140.4	119	105	5.2	5	4
VORIS V2451	24.8	23	--	133.8	122	--	1.4	2	--
*PIONEER 3540	24.9	--	--	140.8	--	--	1.4	--	--
PAYCO SX822	24.9	--	--	119.1	--	--	5.0	--	--
PIONEER 3707	25.1	23	25	132.8	112	108	4.3	3	2
AGRIPRO HP-360	25.1	--	--	112.2	--	--	2.1	--	--
GOLDEN HARVEST H-2480	25.3	24	27	135.6	114	103	0.7	2	2
GOLDEN GRAIN 2570	25.4	--	--	121.0	--	--	4.4	--	--
LAND O' LAKES LOL-1071	25.4	--	--	109.2	--	--	0.0	--	--
DEKALB-PFIZER T1000	25.6	24	--	133.9	109	--	2.1	4	--
ANDERSONS PSX-100	25.7	--	--	116.9	--	--	0.7	--	--
*FUNK G-4342	25.8	23	26	147.9	129	120	1.4	2	2
*RUPP XR1625	25.8	--	--	142.2	--	--	0.7	--	--
ANDERSONS PSX-105	25.8	24	--	123.7	98	--	4.7	3	--
LAND O' LAKES LOL-1061	25.8	--	--	120.3	--	--	1.4	--	--
KING K4464	26.0	24	--	116.5	93	--	0.7	2	--
RUPP XR1707	26.1	--	--	113.2	--	--	4.5	--	--
*BECK'S 40X	26.1	24	--	148.1	121	--	2.1	1	--
BECK'S 40X	26.2	--	--	134.3	--	--	9.5	--	--
RUPP XR1690	26.3	24	27	132.8	119	109	0.0	1	1
GREAT LAKES 5922	26.3	25	28	137.4	121	117	0.7	1	2
AGRIPRO AP-391	26.5	--	--	135.7	--	--	3.0	--	--
DEKALB-PFIZER T1100	27.2	26	--	130.3	113	--	3.5	3	--
BECK'S 60X	28.4	--	--	131.8	--	--	0.7	--	--
RUPP XR1780	28.5	27	29	131.2	101	98	4.1	5	3

TABLE 6 (CONTINUED) SOUTHERN MICHIGAN
CASS COUNTY TRIAL - MUCK SOIL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
AVERAGE	24.4	23	26	128.5	113	107	2.8	3	3
RANGE	21.6	20	24	106.7	93	94	0.0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.5	27	29	148.1	129	120	9.5	7	6
LEAST SIGNIFICANT DIFFERENCE	1.8	1.0	0.8	11.2	8	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 12	May 26	June 9
HARVESTED	October 22	October 17	November 8
SOIL TYPE	Palms muck	Palms muck	Houghton muck
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,500	21,200	21,800
ROWS	38"	38"	30"
FERTILIZER	143-40-80	146-60-60	105-15-30
SOIL TEST: p	6.2	6.1	5.2
p	122 (very high)	80 (high)	60 (medium high)
k	587 (very high)	455 (very high)	455 (very high)

FARM COOPERATOR: Warren Wooden, Cassopolis (1984, 1983)
Oliver, Russel and Roger Anderson, Cassopolis (1982)

COUNTY AGRICULTURAL AGENT: Wayne Nothem, Cassopolis

TABLE 7 SOUTH CENTRAL MICHIGAN
KENT COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
STANTON SX90	19.6	21	--	73.5	90	--	10.5	10	--
CROW'S 181	19.7	--	--	86.7	--	--	7.0	--	--
DAIRYLAND DX1097	19.8	--	--	65.5	--	--	7.8	--	--
PAYCO SX599	19.8	21	21	69.7	85	103	8.0	10	8
PRIDE 3344	20.0	--	--	70.3	--	--	9.9	--	--
RUPP XR1520	20.0	--	--	71.5	--	--	16.8	--	--
*RUPP XR1601	20.1	--	--	94.9	--	--	2.9	--	--
STANTON SX95	20.2	21	21	76.5	93	115	2.9	6	4
FUNK 2011X	20.4	--	--	79.6	--	--	11.1	--	--
ANDERSONS PSX-93	20.5	21	--	64.8	85	--	2.1	2	--
DEKALB-PFIZER DK447	20.6	--	--	66.2	--	--	13.9	--	--
WOLVERINE W166	20.6	22	21	85.1	103	123	21.8	15	12
GREAT LAKES GL-422	20.7	21	21	89.9	108	129	2.3	6	5
NORTHROP KING PX9353	20.7	22	--	89.6	121	--	5.8	8	--
*PIONEER 3707	20.7	--	--	99.9	--	--	8.7	--	--
DAIRYLAND DX1001	20.7	--	--	68.7	--	--	17.5	--	--
DAIRYLAND DX1096	20.7	22	21	76.2	106	122	3.4	4	5
PAYCO SX620	20.7	21	--	88.8	97	--	1.4	5	--
STAUFFER SEEDS S3306	21.1	21	--	80.4	106	--	3.8	5	--
GARNO S-90	21.1	--	--	83.9	--	--	9.7	--	--
WOLVERINE X1102	21.2	--	--	67.1	--	--	19.1	--	--
FUNK G-4256	21.3	22	21	69.5	93	114	24.8	17	13
GOLDEN GRAIN 460	21.4	--	--	61.6	--	--	23.2	--	--
DEKALB-PFIZER T950	21.4	22	22	71.7	98	112	16.7	15	11
*STAUFFER SEEDS S4402	21.6	22	22	98.4	121	134	7.2	11	8
WOLVERINE X199	21.6	--	--	80.8	--	--	8.6	--	--
PIONEER 3737	21.6	--	--	76.4	--	--	6.5	--	--
KING K4474	21.6	--	--	75.8	--	--	17.4	--	--
KING K4422	21.7	23	--	87.5	109	--	6.1	5	--
DAIRYLAND DX1003	21.7	23	22	68.9	101	112	12.9	11	8
*DEKALB-PFIZER EXP348	21.8	--	--	98.6	--	--	11.0	--	--
*GREAT LAKES GL-466	21.8	22	21	99.5	119	130	6.3	10	10
GREAT LAKES GL-487	21.8	23	--	88.6	117	--	6.3	10	--
*PIONEER 3744	21.8	23	23	96.6	123	139	2.9	3	2
*RUPP XR1591	21.8	23	23	103.6	122	133	10.1	12	9
FUNK G-4342	21.9	24	23	79.0	121	140	12.1	8	7
*DEKALB-PFIZER DK484	22.0	23	--	103.6	124	--	10.3	11	--
P-A-G SX193	22.0	23	--	76.4	100	--	6.9	6	--
DEKALB-PFIZER DK505	22.1	--	--	84.4	--	--	13.0	--	--
*DEKALB-PFIZER XL-25A	22.1	24	23	99.4	133	145	4.2	8	6

TABLE 7 (CONTINUED)

SOUTH CENTRAL MICHIGAN
KENT COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
GREAT LAKES GL-490	22.1	--	--	88.3	--	--	7.5	--	--
*JACQUES 5400	22.2	--	--	102.8	--	--	4.3	--	--
*PRIDE 4422	22.2	--	--	108.7	--	--	0.0	--	--
DEKALB-PFIZER T1000	22.3	24	23	84.6	114	133	11.1	11	8
STAUFFER SEEDS 54880	22.4	--	--	74.0	--	--	4.3	--	--
DAIRYLAND DX1006	22.5	24	23	77.5	114	128	16.5	12	8
*CUSTOM CFS E95011	22.5	--	--	101.6	--	--	8.3	--	--
NORTHROP KING PX9405	22.7	24	--	73.6	109	--	25.4	19	--
RUPP XR1639	22.7	--	--	92.4	--	--	7.1	--	--
*CUSTOM CFS 5801	22.7	24	--	97.9	127	--	7.3	9	--
JACQUES JX167	22.8	--	--	91.8	--	--	1.6	--	--
GREAT LAKES GL-516	22.8	--	--	92.7	--	--	9.2	--	--
GREAT LAKES GL-510	22.8	--	--	75.6	--	--	5.6	--	--
ANDERSONS PSX-100	22.8	--	--	90.2	--	--	5.9	--	--
*STAUFFER SEEDS 55340	22.9	24	--	99.8	121	--	4.2	5	--
SUPER CROST 2410	22.9	24	23	91.3	127	137	10.8	12	8
DAIRYLAND DX1105	22.9	24	24	79.0	109	120	16.7	14	10
LAND O'LAKES LOL-1071	22.9	--	--	87.8	--	--	5.8	--	--
*LAND O'LAKES LOL-1061	23.0	--	--	95.8	--	--	12.0	--	--
NATIONAL NA-1006	23.2	--	--	86.7	--	--	10.2	--	--
NORTHROP KING PX9410	23.2	--	--	79.5	--	--	4.9	--	--
DAIRYLAND DX1107	23.2	--	--	83.9	--	--	2.9	--	--
DAIRYLAND DX1008	23.2	25	24	91.7	127	135	8.5	6	5
O'S GOLD 1170A	23.2	24	24	85.2	120	139	0.0	2	--
FUNK G-4323	23.3	24	23	76.7	113	129	12.8	10	7
SUPER CROST 2989	23.3	--	--	82.3	--	--	3.9	--	--
*GREAT LAKES GL-547	23.3	24	--	104.9	129	--	5.2	5	--
GREAT LAKES GL-579	23.4	--	--	92.3	--	--	7.6	--	--
P-A-G SX239	23.4	25	--	78.6	123	--	14.6	12	--
KING K4464	23.4	24	--	82.1	104	--	6.2	6	--
*RUPP XR1625	23.5	24	23	104.6	130	145	9.1	6	4
RUPP XR1690	23.5	--	--	83.2	--	--	5.6	--	--
*PAYCO SX872	23.7	24	--	106.2	128	--	6.3	7	--
*GOLDEN HARVEST H-2480	23.7	--	--	105.7	--	--	4.4	--	--
*FUNK 3026X	23.9	--	--	93.8	--	--	12.6	--	--
PAYCO SX860	23.9	26	25	74.0	123	143	11.4	14	10
STAUFFER SEEDS S5650	24.1	25	24	86.8	121	129	4.2	5	3
KING K5511	24.2	24	23	77.1	110	123	4.8	4	3
GOLDEN GRAIN 560	24.3	--	--	64.1	--	--	17.5	--	--
STANTON SX100	24.4	24	24	83.7	106	130	12.9	11	8
CUSTOM CFS EW95013	24.4	--	--	76.3	--	--	19.3	--	--
ANDERSONS PSX-105	24.8	25	--	70.7	112	--	7.6	7	--
RUPP XR1780	24.9	--	--	84.5	--	--	4.4	--	--
*GREAT LAKES 5922	24.9	25	24	101.5	127	141	4.5	3	3
RUPP XR1707	25.2	--	--	89.9	--	--	4.5	--	--
*O'S GOLD 6880	25.2	26	24	106.0	121	135	9.2	12	9
*GOLDEN HARVEST H-2572	25.2	--	--	104.0	--	--	0.0	--	--
ANDERSONS PSX-110	26.0	--	--	67.9	--	--	11.7	--	--
AVERAGE	22.4	23	23	83.9	113	129	8.9	9	7
RANGE	19.6	21	21	61.6	85	103	0.0	2	2
	26.0	26	25	108.7	133	145	25.4	19	13
LEAST SIGNIFICANT DIFFERENCE	1.4	0.9	0.7	9.1	8	5	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 8	May 16	May 6
HARVESTED	October 29	October 26	October 26
SOIL TYPE	Belville loam	Belville loam	Belville loam
PREVIOUS CROP	Corn	Corn	Wheat
POPULATION	21,700	21,500	21,600
ROWS	30"	30"	30"
FERTILIZER	141-57-60, boron	73-91-150, manure, boron	114-53-96
SOIL TEST: pH	6.0	5.8	6.6
p	77 (high)	92 (high)	67 (medium high)
k	265 (high)	269 (high)	184 (medium)

FARM COOPERATOR: Gerald Kayser, Caledonia

COUNTY AGRICULTURAL AGENT: Jeff Wendorf, Grand Rapids

TABLE 8

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

ZONE 2

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

TABLE 6 (continued)

SOUTH CENTRAL MICHIGAN
Ottawa County Trial

ZONE 2

AVERAGE	27.5	27	26	86.7	117	118	2.8	4	8
RANGE	23.1	23	23	62.9	98	104	0.0	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	31.7	30	28	116.6	134	129	7.9	8	15
LEAST SIGNIFICANT DIFFERENCE	1.7	1.2	1.0	9.4	8	5	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1983.

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

Farm Cooperator: Gerald Geurink, Allendale

County Extension Director: Lawrence Stebbins, Grand Haven

**No 1984 data. Plots damaged by flooding in late May.

TABLE 9

SOUTH CENTRAL MICHIGAN
INGHAM COUNTY TRIAL - GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1984	YR	YR	1984	YR	YR	1984	YR	YR
PRO-SEED HYLAND HL-2414	23.6	--	--	92.5	--	--	8.9	--	--
LOWE 17	24.0	--	--	112.7	--	--	2.3	--	--
PAYCO SX599	24.3	24	23	100.6	96	101	2.4	3	2
PRO-SEED HYLAND HL-2454	24.4	--	--	106.5	--	--	1.6	--	--
RUPP XR1601	24.4	--	--	103.2	--	--	0.8	--	--
CALLAHAN C728	24.5	24	--	128.7	117	--	0.7	1	--
STANTON SX90	24.6	25	--	98.9	88	--	2.1	4	--
SELECT 2440	25.0	25	--	127.2	115	--	2.8	3	--
DAIRYLAND DX1001	25.1	--	--	102.7	--	--	3.4	--	--
CARGILL 829	25.2	--	--	113.3	--	--	2.1	--	--
KKALB-PFIZER T950	25.3	26	25	111.4	103	111	2.8	4	3
STAUFFER SEEDS S4402	25.5	25	24	98.1	97	109	12.8	11	7
RUPP XR1520	25.5	--	--	115.9	--	--	8.8	--	--
STANTON SX95	25.6	24	--	107.1	99	--	2.2	3	--
PAYCO SX620	25.8	25	--	121.2	112	--	2.7	3	--
CALLAHAN X18176	25.9	25	--	109.7	103	--	7.1	5	--
STAUFFER SEEDS S3306	26.0	--	--	112.1	--	--	5.8	--	--
*PIONEER 3744	26.0	26	25	131.7	128	137	7.6	7	5
PIONEER 3737	26.0	--	--	119.3	--	--	14.7	--	--
DAIRYLAND DX1003	26.0	26	25	114.9	94	106	4.3	4	3
ANDERSONS PSX-93	26.0	25	--	115.1	97	--	2.3	4	--
FUNK G-4256	26.1	26	25	115.6	101	109	8.3	6	4
GREAT LAKES GL-422	26.1	25	24	115.8	113	125	10.1	7	5
*ASGROW RX532	26.1	26	--	133.3	115	--	2.2	4	--
WOLVERINE W174A	26.2	27	26	105.7	102	115	0.0	1	1
PRO-SEED HYLAND HL-2444	26.4	--	--	91.5	--	--	1.4	--	--
*DEKALB-PFIZER DK484	26.7	25	--	136.1	125	--	6.2	6	--
RUPP XR1591	27.0	25	--	115.3	110	--	10.8	9	--
DEKALB-PFIZER EXP348	27.1	--	--	112.2	--	--	1.4	--	--
GREAT LAKES GL-490	27.1	--	--	121.3	--	--	6.3	--	--
*SELECT 3100	27.1	25	--	145.4	122	--	6.3	6	--
SUPER CROST 2288	27.2	--	--	102.6	--	--	10.2	--	--
NORTHROP KING PX9353	27.2	26	--	112.1	102	--	3.0	2	--
DEKALB-PFIZER XL-25A	27.4	27	26	124.3	121	125	2.2	2	1
PRIDE 4422	27.4	--	--	124.3	--	--	7.3	--	--
RENK RK19	27.4	--	--	129.4	--	--	1.5	--	--
*GREAT LAKES GL-487	27.7	--	--	132.4	--	--	1.5	--	--
AGRIPRO HP-266	27.7	--	--	128.6	--	--	4.5	--	--
*CARGILL 861	27.7	28	--	131.6	114	--	3.0	6	--
DAIRYLAND DX1006	27.7	28	27	116.5	107	118	9.2	9	7
STANTON SX100	27.7	28	--	127.4	107	--	6.6	6	--
FUNK 2011X	27.8	--	--	112.9	--	--	2.4	--	--
FUNK 3012X	27.8	--	--	111.3	--	--	4.9	--	--
*PIONEER 3707	27.9	27	26	145.7	131	141	0.0	1	1
SUPER CROST 2410	28.0	27	27	110.3	104	119	11.3	7	6
GREAT LAKES GL-466	28.1	26	25	124.6	115	128	3.8	6	4
LAND O' LAKES LOL-1061	28.1	--	--	129.8	--	--	2.8	--	--
FUNK G-4342	28.2	27	26	125.4	105	120	2.2	3	3
*PAYMASTER 2990	28.3	27	26	141.9	127	134	7.9	6	4
GOLDEN HARVEST H-2424	28.3	--	--	112.3	--	--	6.3	--	--
*GREAT LAKES 83452	28.4	--	--	138.3	--	--	0.8	--	--
P-A-G SX239	28.4	27	--	102.8	90	--	5.5	6	--
AGRIPRO HP-360	28.4	--	--	116.1	--	--	4.4	--	--
*KING K4422	28.4	--	--	132.8	113	--	5.2	5	--
SELECT 3720	28.4	--	--	113.2	--	--	6.9	--	--
PRO-SEED HYLAND LG22	28.6	--	--	108.3	--	--	0.0	--	--
STAUFFER SEEDS S5340	28.7	29	--	113.1	111	--	6.9	5	--
AGRIPRO HP-277	28.7	--	--	118.0	--	--	4.4	--	--
VORIS V2471	28.8	--	--	123.1	--	--	0.0	--	--
*SUPER CROST 3030	28.9	--	--	134.8	--	--	1.4	--	--
AGRIPRO AP-391	28.9	--	--	116.9	--	--	0.0	--	--
*KING K4474	28.9	27	--	133.4	118	--	5.3	5	--
*GARNO S-100X	29.0	--	--	134.5	--	--	2.2	--	--
ANDERSONS PSX-100	29.0	--	--	127.7	--	--	5.5	--	--
JACQUES 5400	29.1	--	--	117.2	--	--	9.8	--	--
*STAUFFER SEEDS S5650	29.2	30	29	138.4	126	140	3.7	3	2
*WOLVERINE X1110	29.2	--	--	141.0	--	--	2.1	--	--
*GREAT LAKES 5922	29.2	29	28	140.6	134	145	1.4	3	2
NORTHROP KING PX9405	29.3	28	--	125.7	106	--	2.2	5	--
DEKALB-PFIZER T1000	29.3	29	27	127.5	120	128	6.6	8	5
PIONEER 3747	29.4	27	26	121.5	112	125	3.0	5	3
KING K5511	29.4	31	--	126.7	123	--	1.4	1	--
*DAIRYLAND DX1107	29.4	--	--	144.2	--	--	3.7	--	--
DAIRYLAND DX1008	29.4	30	28	119.4	110	125	3.7	3	2
RENK RK64	29.4	--	--	116.7	--	--	4.3	--	--
SUPER CROST 2989	29.5	--	--	114.5	--	--	5.2	--	--
JACQUES 7700	29.5	31	--	113.8	109	--	3.8	3	--
PAYMASTER 2890	29.5	--	--	122.3	--	--	5.7	--	--
*FUNK G-4323	29.6	29	28	139.2	127	135	5.8	4	3
LEADER LSX530	29.6	--	--	117.7	--	--	0.0	--	--

TABLE 9 (CONTINUED)

SOUTH CENTRAL MICHIGAN
INGHAM COUNTY TRIAL - GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 2

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2 YR	3 YR	1984	2 YR	3 YR	1984	2 YR	3 YR
*CARDINAL SX112	29.7	--	--	141.0	--	--	4.4	--	--
CARGILL 867	29.7	31	--	120.5	110	--	9.8	5	--
RENK RK25	29.7	--	--	116.9	--	--	2.2	--	--
AGRIPRO HP-401	29.8	--	--	129.8	--	--	4.4	--	--
RP-A-G SX267	29.9	--	--	133.9	--	--	2.8	--	--
SELECT 3300	29.9	29	--	118.0	120	--	4.6	4	--
NATIONAL NA-1006	30.0	--	--	128.9	--	--	1.4	--	--
CALLAHAN X18457	30.1	--	--	122.6	--	--	0.0	--	--
GREAT LAKES GL-547	30.2	28	--	125.4	120	--	4.3	4	--
GOLDEN HARVEST H-2448	30.3	30	30	123.1	120	124	3.7	5	3
STAUFFER SEEDS S606WX	30.5	--	--	128.3	--	--	5.2	--	--
GREAT LAKES GL-579	30.6	--	--	130.1	--	--	0.8	--	--
KING K4464	30.6	29	--	110.2	104	--	6.2	7	--
RENK RK60	30.6	29	--	137.5	125	--	2.9	4	--
RUPP XR1690	30.6	29	--	122.2	117	--	10.1	7	--
RP-A-G SX195	30.7	--	--	131.8	--	--	4.2	--	--
HUGHES M-2	30.9	--	--	109.6	--	--	1.5	--	--
LAND O' LAKES LOL-1071	30.9	--	--	106.4	--	--	1.4	--	--
FUNK 3026X	31.0	--	--	114.0	--	--	2.3	--	--
GREAT LAKES GL-510	31.0	--	--	123.7	--	--	3.3	--	--
HUGHES 5402	31.1	--	--	119.3	--	--	0.0	--	--
*PRO-SEED HYLAND HL-2750	31.1	--	--	136.7	--	--	2.9	--	--
NORTHUP KING PX9410	31.2	--	--	126.6	--	--	2.3	--	--
RENK RK66	31.2	29	28	110.9	115	130	3.0	2	2
O'S GOLD 1170A	31.2	30	29	112.3	114	127	3.8	3	3
VORIS V2451	31.3	30	--	120.0	127	--	0.7	2	--
FUNK G-4438	31.4	31	--	126.8	125	--	5.3	4	--
RUPP XR1639	31.5	29	--	120.0	118	--	7.9	6	--
STAUFFER SEEDS S5750	31.7	--	--	118.0	--	--	1.6	--	--
RUPP XR1625	32.1	--	--	117.7	--	--	3.0	--	--
FARMERS FCC251	32.2	32	--	112.0	106	--	4.3	4	--
ANDERSONS PSX-105	32.6	31	--	109.8	114	--	3.5	4	--
RENK RK76	32.9	32	--	130.7	132	--	2.9	3	--
CALLAHAN C766	33.7	33	--	118.6	121	--	2.3	3	--
FARMERS FCC224A	33.8	31	29	108.5	113	133	0.8	2	1
SUPER CROST 4304	34.1	--	--	130.9	--	--	2.1	--	--
RUPP XR1707	34.2	--	--	108.5	--	--	2.8	--	--
RUPP XR1780	34.5	--	--	128.1	--	--	5.2	--	--
O'S GOLD 6882	34.5	33	31	105.1	111	128	2.3	2	2
ANDERSONS PSX-110	34.9	--	--	111.6	--	--	0.0	--	--
O'S GOLD 2570	35.0	33	--	106.0	121	--	2.3	2	--
*GOLDEN HARVEST H-2572	35.0	--	--	136.5	--	--	0.7	--	--
GOLDEN HARVEST H-2500	35.3	34	33	115.5	117	132	3.4	3	2
LEADER 3550A	35.4	--	--	103.2	--	--	0.7	--	--
ANDERSONS SILO FILLER	35.5	--	--	97.6	--	--	0.7	--	--
AVERAGE	29.1	28	27	120.4	113	125	4.0	4	3
RANGE	23.6	24	23	91.5	88	101	0.0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	35.5	34	33	145.7	134	145	14.7	11	7
LEAST SIGNIFICANT DIFFERENCE	2.0	1.3	0.8	10.6	8	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

1984

1983

1982

PLANTED April 28 April 27 April 26
HARVESTED October 22 October 11 October 14
SOIL TYPE Capac loam Capac loam Capac loam
PREVIOUS CROP Corn Corn Corn
POPULATION 21,200 21,300 21,400
ROWS 36" 36" 36"
FERTILIZER 165-50-50 165-50-50 170-60-60
SOIL TEST: pH 6.2 5.9 6.3
p 170 (very high) 186 (very high) 83 (high)
k 224 (high) 215 (high) 210 (high)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

TABLE 10

SOUTH CENTRAL MICHIGAN
INGHAM COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 2

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			TONS PER ACRE			DRY WEIGHT		
	2	3		2	3		2	3		2	3	
	1984	YR	YR	1984	YR	YR	1984	YR	YR	1984	YR	YR
PAYCO SX620	48.7	44.1	--	11.9	12.7	--	5.8	5.6	--			
LOWE 17	47.3	--	--	9.3	--	--	4.3	--	--			
PRO-SEED HYLAND HL-2414	46.4	--	--	10.9	--	--	5.1	--	--			
SELECT 2440	43.9	45.7	--	14.8	12.8	--	6.3	5.7	--			
CALLAHAN C728	43.8	43.2	--	12.6	12.7	--	5.5	5.5	--			
GREAT LAKES GL-422	43.2	42.5	44.4	13.3	13.1	14.1	5.7	5.5	6.2			
PRO-SEED HYLAND HL-2454	42.9	--	--	14.3	--	--	6.1	--	--			
STANTON SX90	42.1	39.1	--	13.9	14.6	--	5.8	5.6	--			
DAIRYLAND DX1003	42.0	42.1	41.3	15.1	13.7	14.8	6.3	5.7	6.1			
CARGILL 829	41.8	--	--	15.1	--	--	6.3	--	--			
STANTON SX95	41.6	46.8	--	14.7	11.9	--	6.1	5.4	--			
RUPP XR1520	41.3	--	--	13.8	--	--	5.7	--	--			
RUPP XR1601	40.6	--	--	16.2	--	--	6.4	--	--			
JACQUES 5400	40.5	--	--	15.1	--	--	6.1	--	--			
DAIRYLAND DX1006	40.4	38.3	39.3	13.8	13.1	15.5	5.6	5.0	6.2			
ASGROW RX532	39.4	38.1	--	16.0	14.0	--	6.3	5.3	--			
FUNK 2011X	39.3	--	--	16.3	--	--	6.4	--	--			
GREAT LAKES GL-487	39.3	--	--	16.6	--	--	6.5	--	--			
DAIRYLAND DX1001	39.2	--	--	14.0	--	--	5.5	--	--			
PRO-SEED HYLAND HL-2444	39.1	--	--	15.1	--	--	5.9	--	--			
AGRIPRO HP-266	38.9	--	--	15.4	--	--	6.0	--	--			
STAUFFER SEEDS S3306	38.8	--	--	17.3	--	--	6.7	--	--			
P-A-G SX239	38.8	37.6	--	16.7	15.0	--	6.4	5.6	--			
PIONEER 3737	38.8	--	--	17.2	--	--	6.7	--	--			
SUPER CROST 2410	38.7	38.5	39.1	16.3	15.5	16.5	6.3	6.0	6.5			
CALLAHAN X18176	38.7	40.6	--	14.8	14.0	--	5.7	5.6	--			
KING K4474	38.6	38.2	--	18.0	15.8	--	6.9	6.0	--			
RUPP XR1591	38.6	38.7	--	14.9	15.1	--	5.7	5.8	--			
STAUFFER SEEDS S4402	38.4	39.1	39.9	16.8	15.5	17.2	6.5	6.0	6.9			
GREAT LAKES GL-466	38.3	38.8	38.8	13.1	13.4	15.9	5.0	5.2	6.1			
PIONEER 3747	38.3	38.0	38.1	17.5	16.2	17.8	6.7	6.2	6.8			
KING K4422	38.3	38.0	--	14.8	14.9	--	5.6	5.6	--			
PIONEER 3744	38.0	36.5	37.2	16.1	16.3	17.9	6.1	5.9	6.7			
PAYMASTER 2990	38.0	38.3	37.4	17.9	16.9	18.1	6.8	6.5	6.7			
GOLDEN HARVEST H-2424	38.0	--	--	14.9	--	--	5.7	--	--			
PRIDE 4422	37.9	--	--	18.5	--	--	7.0	--	--			
AGRIPRO HP-277	37.8	--	--	15.7	--	--	6.0	--	--			
KING K5511	37.8	37.0	--	17.2	15.9	--	6.5	5.9	--			
SELECT 3100	37.8	38.0	--	16.7	15.6	--	6.3	5.9	--			
CARGILL 861	37.8	37.5	--	16.3	15.4	--	6.2	5.8	--			
PAYCO SX599	37.6	37.3	40.5	16.9	14.6	15.0	6.4	5.4	6.1			
DEKALB-PFIZER T950	37.5	38.0	38.0	14.0	14.5	16.5	5.3	5.5	6.2			
PAYMASTER 2890	37.3	--	--	17.4	--	--	6.5	--	--			
FUNK G-4342	37.2	39.6	39.3	15.1	13.8	16.6	5.6	5.4	6.4			
ANDERSONS PSX-100	37.2	--	--	14.8	--	--	5.5	--	--			
WOLVERINE W174A	36.9	35.6	35.5	14.0	14.8	17.1	5.2	5.3	6.1			
ANDERSONS PSX-93	36.9	38.7	--	14.5	12.9	--	5.4	5.0	--			
HUGHES M-2	36.7	--	--	15.9	--	--	5.8	--	--			
GARNO S-100X	36.5	--	--	18.0	--	--	6.6	--	--			
GREAT LAKES GL-510	36.4	--	--	17.7	--	--	6.4	--	--			
NORTHUP KING PX9410	36.4	--	--	15.6	--	--	5.7	--	--			
STAUFFER SEEDS S5750	36.3	--	--	15.9	--	--	5.8	--	--			
GREAT LAKES GL-490	36.1	--	--	18.6	--	--	6.7	--	--			
STANTON SX100	36.1	35.8	--	14.0	13.5	--	5.0	4.8	--			
RENK RK19	36.0	--	--	16.4	--	--	5.9	--	--			
DEKALB-PFIZER T1000	36.0	36.2	35.8	16.7	15.5	16.8	6.0	5.6	6.0			
DEKALB-PFIZER EXP348	35.7	--	--	18.6	--	--	6.7	--	--			
FUNK 3012X	35.7	--	--	17.3	--	--	6.1	--	--			
WOLVERINE X1110	35.7	--	--	19.0	--	--	6.8	--	--			
LAND O' LAKES LOL-1061	35.5	--	--	17.1	--	--	6.1	--	--			
NORTHUP KING PX9353	35.4	36.4	--	17.2	15.8	--	6.0	5.7	--			
P-A-G SX195	35.4	--	--	16.1	--	--	5.7	--	--			
STAUFFER SEEDS S5340	35.3	33.8	--	16.8	15.9	--	5.9	5.4	--			
DEKALB-PFIZER XL-25A	35.3	37.0	37.3	17.8	15.5	17.6	6.3	5.7	6.5			
VORIS V2471	35.3	--	--	16.0	--	--	5.6	--	--			
PRO-SEED HYLAND LG-22	35.1	--	--	17.1	--	--	6.0	--	--			
AGRIPRO HP-360	34.9	--	--	16.7	--	--	5.8	--	--			
STAUFFER SEEDS S5650	34.8	34.9	33.7	20.4	18.9	21.8	7.1	6.6	7.2			
CARGILL 867	34.8	34.8	--	18.6	16.5	--	6.5	5.7	--			
SUPER CROST 2288	34.7	--	--	16.0	--	--	5.6	--	--			
NORTHUP KING PX9405	34.7	35.4	--	16.2	15.3	--	5.6	5.4	--			
SELECT 3720	34.6	--	--	18.9	--	--	6.5	--	--			
RENK RK25	34.6	--	--	19.1	--	--	6.6	--	--			
NATIONAL NA-1006	34.5	--	--	20.6	--	--	7.0	--	--			
SELECT 3300	34.5	34.5	--	17.4	16.0	--	6.0	5.5	--			
CALLAHAN X18457	34.4	--	--	18.5	--	--	6.4	--	--			
O'S GOLD 1170A	34.3	34.3	34.9	16.1	15.7	18.3	5.5	5.4	6.4			
GOLDEN HARVEST H-2448	34.3	35.0	33.5	17.2	16.3	19.2	5.9	5.6	6.3			
GREAT LAKES GL-579	34.2	--	--	20.5	--	--	7.0	--	--			
DAIRYLAND DX1008	34.2	33.4	32.7	16.3	16.2	19.1	5.6	5.4	6.2			

TABLE 10 (CONTINUED) SOUTH CENTRAL MICHIGAN
INGHAM COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	2 3			2 3			2 3			2 3		
	1984	YR	YR	1984	YR	YR	1984	YR	YR	1984	YR	YR
HUGHES 5404	34.1	--	--	19.1	--	--	6.5	--	--	5.3	5.0	--
KING K4464	34.1	35.1	--	15.5	14.4	--	5.3	5.0	--	5.3	5.0	--
RENK RK66	34.1	32.8	32.5	19.5	18.3	20.7	6.6	6.0	6.7	5.5	--	--
RUPP XR1707	34.1	--	--	16.1	--	--	5.5	--	--	7.1	--	--
LEADER LSX530	34.0	--	--	16.8	--	--	5.7	--	--	5.7	--	--
CARDINAL SX112	33.9	--	--	22.1	--	--	7.5	--	--	5.7	6.1	6.8
FUNK G-4323	33.9	35.1	35.2	16.9	17.4	19.3	5.4	--	--	5.4	5.7	6.2
FUNK G-4256	33.9	35.6	36.8	16.0	16.3	17.0	5.4	--	--	7.1	--	--
SUPER CROST 3030	33.9	--	--	20.9	--	--	6.9	--	--	6.9	--	--
GREAT LAKES 83452	33.9	--	--	20.4	--	--	6.9	--	--	6.9	--	--
PIONEER 3707	33.9	35.3	35.8	18.3	17.0	19.2	6.2	6.0	6.9	6.2	6.0	6.9
DAIRYLAND DX1107	33.9	--	--	19.5	--	--	6.6	--	--	6.6	--	--
FARMERS FCC251	33.9	32.9	--	21.8	19.3	--	7.4	6.4	--	7.4	6.4	--
DEKALB-PFIZER DK484	33.8	34.8	--	18.2	16.6	--	6.1	5.7	--	6.1	5.7	--
RENK RK60	33.8	34.9	--	19.1	17.3	--	6.5	6.0	--	6.5	6.0	--
RENK RK64	33.8	--	--	18.9	--	--	6.4	--	--	6.4	--	--
FUNK 3026X	33.7	--	--	16.1	--	--	5.4	--	--	5.4	--	--
GREAT LAKES GL-547	33.4	33.7	--	20.1	18.6	--	6.7	6.2	--	6.7	6.2	--
SUPER CROST 2989	33.3	--	--	18.9	--	--	6.3	--	--	6.3	--	--
ANDERSONS PSX-105	33.3	34.1	--	17.4	16.6	--	5.8	5.6	--	5.8	5.6	--
GREAT LAKES 5922	33.3	33.8	34.2	20.7	19.8	21.7	6.9	6.7	7.4	6.9	6.7	7.4
P-A-G SX267	33.1	--	--	19.6	--	--	6.5	--	--	6.5	--	--
RUPP XR1780	33.0	--	--	17.2	--	--	5.6	--	--	5.6	--	--
O'S GOLD 6882	33.0	33.1	32.8	19.4	18.3	20.8	6.4	6.1	6.8	6.4	6.1	6.8
RUPP XR1639	32.4	33.5	--	17.5	17.7	--	5.7	5.9	--	5.7	5.9	--
FUNK G-4438	32.3	33.3	--	19.5	18.9	--	6.2	6.2	--	6.2	6.2	--
RUPP XR1690	32.3	33.6	--	19.8	17.0	--	6.4	5.7	--	6.4	5.7	--
STAUFFER SEEDS S606WX	31.9	--	--	20.3	--	--	6.5	--	--	6.5	--	--
ANDERSONS PSX-110	31.8	--	--	19.2	--	--	6.1	--	--	6.1	--	--
RUPP XR1625	31.6	--	--	20.9	--	--	6.6	--	--	6.6	--	--
FARMERS FCC224A	31.4	33.2	33.9	22.3	20.3	22.2	6.9	6.6	7.5	6.9	6.6	7.5
PRO-SEED HYLAND HL-2730	31.4	--	--	17.9	--	--	5.6	--	--	5.6	--	--
LEADER 3550A	31.3	--	--	19.4	--	--	6.1	--	--	6.1	--	--
AGRIPRO AP-391	31.3	--	--	19.6	--	--	6.1	--	--	6.1	--	--
LAND O'LAKES LOL-1071	31.2	--	--	16.7	--	--	5.2	--	--	5.2	--	--
GOLDEN HARVEST H-2500	31.1	30.7	30.6	23.2	21.3	23.5	7.2	6.6	7.2	7.2	6.6	7.2
SUPER CROST 4304	31.0	--	--	17.8	--	--	5.5	--	--	5.5	--	--
JACQUES 7700	30.9	32.3	--	23.3	19.2	--	7.2	6.1	--	7.2	6.1	--
VORIS V2451	30.9	31.7	--	20.2	17.7	--	6.1	5.5	--	6.1	5.5	--
RENK RK76	30.6	30.4	--	21.3	20.8	--	6.6	6.3	--	6.6	6.3	--
O'S GOLD 2570	30.5	--	--	21.5	--	--	6.6	--	--	6.6	--	--
CALLAHAN C766	30.5	30.8	--	18.9	17.9	--	5.8	5.5	--	5.8	5.5	--
AGRIPRO HP-401	30.1	--	--	23.6	--	--	7.1	--	--	7.1	--	--
GOLDEN HARVEST H-2572	29.6	--	--	21.2	--	--	6.3	--	--	6.3	--	--
ANDERSONS SILO FILLER	29.1	--	--	17.9	--	--	5.2	--	--	5.2	--	--
AVERAGE	35.9	36.5	36.6	17.3	16.0	18.2	6.1	5.7	6.6	6.1	5.7	6.6
RANGE	29.1	30.4	30.6	9.3	11.9	14.1	4.3	4.8	6.0	4.3	4.8	6.0
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	48.7	46.8	44.4	23.6	21.3	23.5	7.5	6.7	7.5	7.5	6.7	7.5
LEAST SIGNIFICANT DIFFERENCE	3.0	2.2	1.4	2.1	1.5	1.0	0.6	0.5	0.5	0.6	0.5	0.5

	1984	1983	1982
PLANTED	April 28	April 27	April 26
HARVESTED	September 10	September 7	September 8
SOIL TYPE	Capac loam	Capac loam	Capac loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,100	21,300	23,100
ROWS	36"	36"	36"
FERTILIZER	165-50-50	165-50-50	170-60-60
SOIL TEST: pH	6.2	6.9	6.3
p	140 (very high)	186 (very high)	83 (high)
k	224 (high)	215 (high)	210 (high)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

TABLE 11 NORTH CENTRAL MICHIGAN
SANILAC COUNTY TRIAL - GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	2 3			2 3			2 3		
	1984	YR	YR	1984	YR	YR	1984	YR	YR
P-A-G SX111	24.0	23	23	118.2	121	118	0.0	1	1
CARGILL 818	24.9	--	--	126.6	--	--	1.4	--	--
CARGILL 822	25.6	--	--	124.8	--	--	2.3	--	--
ASGROW RX420	26.0	27	--	148.1	151	--	1.4	1	--
PRO-SEED HYLAND HL-2414	26.5	--	--	123.4	--	--	0.0	--	--
CARDINAL 2820	26.8	--	--	120.4	--	--	0.8	--	--
PAYCO SX599	27.2	27	26	138.0	146	148	0.0	0	0
PRO-SEED HYLAND LG18	27.3	--	--	147.5	--	--	2.2	--	--
ANDERSONS PSX-93	27.3	27	--	124.7	145	--	0.7	0	--
STANTON SX90	27.3	27	26	133.6	142	134	0.0	0	1
STAUFFER SEEDS S-2202	27.5	--	--	130.7	--	--	0.0	--	--
KING K2204	27.5	27	--	149.3	151	--	0.0	0	--
P-A-G SX157	27.8	--	--	121.3	--	--	1.4	--	--
CALLAHAN X18176	27.8	--	--	149.3	--	--	0.0	--	--
P-A-G SX155	27.9	28	--	134.9	130	--	5.2	3	--
STANTON SX95	27.9	28	28	148.9	140	133	0.0	1	1
CUSTOM CFS 3601	27.9	30	--	140.6	156	--	0.0	1	--
KING K2203	28.0	28	--	141.0	141	--	0.7	0	--
PRO-SEED HYLAND HL-2444	28.3	--	--	142.2	--	--	2.1	--	--
FUNK 2011X	28.6	--	--	142.7	--	--	0.0	--	--
*CARGILL 829	29.1	--	--	158.1	--	--	1.5	--	--
CALLAHAN X18088	29.4	--	--	106.9	--	--	1.5	--	--
PIONEER 3901	29.6	29	28	122.6	140	146	1.5	1	1
GARNO S-90	29.9	29	29	153.5	155	151	0.0	0	1
LAND O'LAKES LOL-1096	29.9	--	--	149.1	--	--	2.1	--	--
NORTHROP KING PX9290	30.1	--	--	140.5	--	--	0.7	--	--
FUNK G-4256	30.2	30	30	128.1	134	134	0.0	1	1
DAIRYLAND DX1097	30.3	--	--	133.7	--	--	2.2	--	--
GREAT LAKES GL-422	30.4	29	--	153.2	151	--	1.5	1	--
*PIONEER 3744	30.4	31	31	157.7	170	161	0.0	0	0
*PAYCO SX620	30.4	29	--	156.7	157	--	0.0	0	--
JACQUES EXP. 3091	30.5	--	--	135.2	--	--	0.7	--	--
PAYCO SX431	30.5	29	27	119.7	122	128	0.0	1	2
NORTHROP KING PX9242	30.6	--	--	141.6	--	--	0.0	--	--
GOLDEN HARVEST HL-2300	30.6	30	29	125.3	138	140	0.0	0	0
*JACQUES JX97	30.7	31	30	157.3	163	160	3.1	2	2
*STANTON SX100	30.7	31	31	157.7	143	149	1.5	1	1
CALLAHAN C728	30.8	--	--	145.0	--	--	1.4	--	--
*CARDINAL 3222	30.9	--	--	158.3	--	--	0.7	--	--
GREAT LAKES GL-466	30.9	31	31	150.6	152	155	2.9	1	1
DEKALB-PFIZER XL-25A	31.0	31	30	137.7	155	150	1.5	1	1
*DAIRYLAND DX1096	31.1	29	30	159.5	159	153	0.0	0	0
RENK RK17	31.2	30	--	127.4	154	--	3.1	2	--
PIONEER 3737	31.3	--	--	142.2	--	--	2.3	--	--
PRO-SEED HYLAND HL-2455	31.3	--	--	134.2	--	--	0.0	--	--
DAIRYLAND DX1003	31.3	31	31	122.1	140	139	0.0	0	0
P-A-G SX180	31.4	--	--	133.1	--	--	0.7	--	--
*PIONEER 3747	31.4	31	--	164.2	168	--	1.4	1	--
P-A-G SX179	31.5	31	--	139.8	145	--	0.7	1	--
SUPER CROST 1940	31.6	32	31	126.7	141	147	0.0	0	0
KING K4423	31.6	31	--	146.6	152	--	0.0	0	--
*STAUFFER SEEDS S3306	31.7	--	--	158.3	--	--	2.2	--	--
STAUFFER SEEDS S4402	31.7	31	30	143.6	151	144	2.1	1	1
NATIONAL NA-1098	31.7	--	--	152.3	--	--	0.0	--	--
O'S GOLD 2330	31.8	--	--	136.4	--	--	0.7	--	--
*GOLDEN HARVEST EX706	31.8	--	--	163.3	--	--	0.0	--	--
*STAUFFER SEEDS S5340	31.9	--	--	177.3	--	--	1.4	--	--
GREAT LAKES GL-487	31.9	31	--	151.8	172	--	0.0	1	--
VORIS V2471	31.9	--	--	144.6	--	--	0.0	--	--
P-A-G SX175	32.1	--	--	140.0	--	--	0.7	--	--
ASGROW RX480	32.1	--	--	130.9	--	--	0.0	--	--
DAIRYLAND DX1001	32.1	--	--	131.6	--	--	0.7	--	--
DEKALB-PFIZER T950	32.1	32	31	136.8	156	151	0.0	0	0
STAUFFER SEEDS S3406WX	32.2	31	31	152.6	149	149	0.0	0	0
DEKALB-PFIZER DK484	32.2	32	--	139.5	158	--	0.0	0	--
*KING K4422	32.2	32	--	179.5	178	--	0.7	1	--
RENK RK25	32.2	--	--	147.6	--	--	0.7	--	--
RENK RK19	32.3	--	--	141.7	--	--	0.8	--	--
CALLAHAN C738	32.4	--	--	135.5	--	--	2.3	--	--
SUPER CROST 2410	32.5	33	33	132.0	154	155	0.7	1	0
FUNK 3026X	32.6	--	--	149.3	--	--	0.0	--	--
ASGROW RX532	32.6	32	--	134.6	148	--	0.7	--	--
RENK RK60	32.6	33	--	134.7	161	--	0.0	0	--
RENK RK64	32.6	--	--	152.2	--	--	0.0	--	--
*GARNO S-100X	32.7	--	--	166.1	--	--	1.4	--	--
GREAT LAKES GL-490	32.7	--	--	148.2	--	--	0.0	--	--
PRIDE 4422	32.7	--	--	147.1	--	--	0.8	--	--
O'S GOLD 2389	32.7	--	--	139.5	--	--	0.7	--	--
GREAT LAKES GL-579	32.8	--	--	146.0	--	--	0.7	--	--
*SUPER CROST 2989	32.9	--	--	168.3	--	--	0.0	--	--

TABLE 11 (CONTINUED)

NORTH CENTRAL MICHIGAN
SANILAC COUNTY TRIAL - GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
GREAT LAKES GL-510	32.9	--	--	147.9	--	--	0.0	--	--
NORTHROP KING PX9353	32.9	32	--	140.6	156	--	1.4	1	--
DAIRYLAND DX1006	32.9	33	33	151.4	158	152	0.0	1	1
*ANDERSONS PSX-105	33.0	33	--	174.2	174	--	0.0	0	--
CARDINAL 3422	33.2	--	--	134.4	--	--	0.7	--	--
*FUNK G-4342	33.2	32	32	162.0	170	166	0.8	1	1
*SUPER CROST 2288	33.2	--	--	157.3	--	--	0.7	--	--
*DEKALB-PFIZER T1000	33.2	33	33	156.9	158	153	0.7	0	1
GRIES X490	33.3	--	--	134.0	--	--	0.0	--	--
ANDERSONS PSX-100	33.3	--	--	134.1	--	--	0.7	--	--
KING K5511	33.4	--	--	151.1	--	--	0.0	--	--
*GREAT LAKES GL-516	33.5	--	--	157.6	--	--	0.7	--	--
DAIRYLAND DX1105	33.5	34	34	131.7	142	135	0.0	0	1
FUNK G-4323	33.6	33	33	145.7	151	149	0.7	0	0
GREAT LAKES GL-547	33.6	33	--	145.0	167	--	1.4	1	--
GREAT LAKES 5922	33.6	33	33	152.1	168	166	0.0	0	0
STAUFFER SEEDS S5650	33.7	33	33	135.8	151	151	1.4	1	0
*FUNK 3012X	33.8	--	--	160.5	--	--	0.7	--	--
RENK RK66	34.5	34	34	148.5	168	161	0.7	0	1
GOLDEN HARVEST H-2572	34.5	--	--	141.1	--	--	0.7	--	--
CARDINAL SX112	34.6	--	--	139.4	--	--	0.0	--	--
*VORIS V2451	34.6	34	--	157.9	168	--	1.4	1	--
CUSTOM EW95013	35.3	--	--	148.6	--	--	1.4	--	--
ANDERSONS SILO FILLER	35.6	--	--	143.0	--	--	2.1	--	--
AVERAGE	31.1	31	30	142.9	152	148	0.8	1	1
RANGE	24.0	23	23	106.9	121	118	0.0	0	0
	70	70	70	70	70	70	70	70	70
	35.6	34	34	179.5	178	166	5.2	3	2
LEAST SIGNIFICANT DIFFERENCE	2.1	1.6	0.9	13.0	9	7	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 9	May 17	May 12
HARVESTED	October 23	October 20	October 27
SOIL TYPE	Parkhill loam	Parkhill loam	Parkhill loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,200	21,100	20,700
ROWS	30"	30"	30"
FERTILIZER	145-65-185	155-91-181	204-75-166 + manure
SOIL TEST: pH	6.2	6.5	6.8
p	144 (very high)	128 (very high)	70 (medium high)
k	286 (very high)	194 (medium)	729 (low)

FARM COOPERATOR: Ray Orchard, Applegate

COUNTY EXTENSION DIRECTOR: Rex Sieting, Sandusky

TABLE 12

NORTH CENTRAL MICHIGAN
SANILAC COUNTY TRIAL-SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			TONS PER ACRE			DRY WEIGHT		
	1984	2	3	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR	YR	YR	YR
PAYCO SX431	44.9	40.0	39.4	13.2	12.4	12.0	5.9	5.0	4.7			
STANTON SX90	44.7	39.4	36.7	11.9	13.6	15.0	5.3	5.3	5.4			
P-A-G SX157	42.6	--	--	13.1	--	--	5.6	--	--			
STAUFFER SEEDS S-2202	40.4	--	--	13.2	--	--	5.3	--	--			
CALLAHAN X18088	39.5	--	--	11.2	--	--	4.5	--	--			
P-A-G SX111	39.3	37.3	41.0	14.2	14.2	12.7	5.6	5.3	5.1			
JACQUES EXP. 3091	39.2	--	--	14.2	--	--	5.6	--	--			
GREAT LAKES GL-422	39.1	35.5	--	14.6	16.1	--	5.7	5.6	--			
P-A-G SX179	38.8	33.7	--	16.7	18.9	--	6.5	6.2	--			
KING K2204	38.8	36.7	--	12.6	14.5	--	4.9	5.2	--			
CALLAHAN C728	38.8	--	--	14.8	--	--	5.8	--	--			
KING K2203	38.6	35.6	--	14.1	15.5	--	5.4	5.4	--			
PRO-SEED HYLAND HL-2444	38.6	--	--	10.7	--	--	4.1	--	--			
CUSTOM CFS 3601	38.5	33.8	--	15.3	16.8	--	5.9	5.6	--			
DEKALB-PFIZER S3306	38.3	--	--	16.6	--	--	6.3	--	--			
RENK RK17	38.1	36.2	--	15.4	15.3	--	5.9	5.5	--			
P-A-G SX155	37.6	37.6	--	13.4	12.9	--	5.0	4.8	--			
DAIRYLAND DX1003	36.9	34.2	34.7	16.7	17.7	18.1	6.2	6.0	6.3			
PRO-SEED HYLAND HL-2455	36.7	--	--	14.0	--	--	5.1	--	--			
DEKALB-PFIZER T950	36.7	34.2	32.7	17.8	19.4	19.1	6.5	6.5	6.2			
O'S GOLD 2330	36.6	33.5	32.3	17.1	18.7	19.3	6.2	6.2	6.1			
PAYCO SX620	36.4	34.1	--	15.5	16.5	--	5.5	5.5	--			
GOLDEN HARVEST H-2300	36.4	34.0	33.8	18.0	18.6	19.5	6.5	6.3	6.5			
KING K4423	36.3	33.3	--	18.6	18.7	--	6.8	6.2	--			
STANTON SX95	36.3	35.1	34.6	15.7	16.9	17.6	5.7	5.9	6.0			
LAND O'LAKES LOL-1096	36.3	--	--	17.9	--	--	6.5	--	--			
CALLAHAN C738	36.3	--	--	13.4	--	--	4.9	--	--			
PIONEER 3901	35.7	33.6	33.4	16.0	19.7	19.7	5.7	6.5	6.5			
GARNO S-90	35.1	34.0	34.6	15.7	16.6	17.6	5.3	5.5	6.0			
CALLAHAN X18176	35.1	--	--	12.7	--	--	4.5	--	--			
FUNK 3012X	34.8	--	--	15.9	--	--	5.5	--	--			
NORTHROP KING PX9290	34.8	--	--	16.5	--	--	5.7	--	--			
CARGILL 822	34.8	--	--	12.8	--	--	4.5	--	--			
SUPER CROST 1940	34.7	32.0	33.2	16.7	19.3	19.7	5.8	6.1	6.5			
ASGROW RX420	34.7	32.0	--	16.0	15.5	--	5.5	4.8	--			
DEKALB-PFIZER DK484	34.6	33.6	--	17.3	18.3	--	6.0	6.1	--			
PRO-SEED HYLAND HL-2414	34.6	--	--	13.4	--	--	4.6	--	--			
CARGILL 829	34.6	--	--	16.2	--	--	5.6	--	--			
STAUFFER SEEDS S4402	34.5	33.1	32.9	17.3	19.0	20.9	6.0	6.3	6.9			
CARDINAL 3222	34.4	--	--	19.1	--	--	6.6	--	--			
JACQUES JX97	34.4	32.7	33.2	17.9	18.3	18.1	6.2	6.0	6.0			
CARDINAL 2880	34.1	--	--	16.7	--	--	5.7	--	--			
ANDERSONS PSX-93	34.1	33.9	--	17.0	17.0	--	5.8	5.7	--			
GREAT LAKES GL-466	34.0	32.9	32.7	17.1	18.1	20.4	5.8	5.9	6.6			
NORTHROP KING PX9353	33.8	30.7	--	17.9	20.3	--	6.0	6.1	--			
NORTHROP KING PX9242	33.8	--	--	13.9	--	--	4.7	--	--			
DAIRYLAND DX1097	33.8	--	--	16.2	--	--	5.5	--	--			
DAIRYLAND DX1096	33.7	32.7	32.1	14.5	18.1	18.3	4.9	5.9	5.9			
NATIONAL NA-1098	33.6	--	--	15.4	--	--	5.2	--	--			
DAIRYLAND DX1001	33.4	--	--	16.6	--	--	5.6	--	--			
P-A-G SX175	33.3	--	--	19.3	--	--	6.4	--	--			
O'S GOLD 2389	33.2	--	--	17.1	--	--	5.7	--	--			
SUPER CROST 2288	33.0	--	--	20.1	--	--	6.7	--	--			
GARNO S-100X	33.0	--	--	20.0	--	--	6.6	--	--			
PIONEER 3744	33.0	30.2	29.5	16.7	19.1	20.2	5.5	5.7	5.9			
RENK RK19	33.0	--	--	17.0	--	--	5.6	--	--			
PIONEER 3737	32.9	--	--	18.8	--	--	6.2	--	--			
GREAT LAKES GL-487	32.7	31.6	--	16.2	17.4	--	5.3	5.5	--			
DAIRYLAND DX1006	32.7	31.2	30.6	19.4	18.3	18.6	6.4	5.7	5.7			
SUPER CROST 2410	32.6	31.1	30.0	17.7	20.8	21.1	5.8	6.4	6.3			
KING K4422	32.6	32.0	--	17.4	20.7	--	5.7	6.6	--			
ANDERSONS PSX-100	32.5	--	--	16.7	--	--	5.5	--	--			
STAUFFER SEEDS S3406WX	32.3	31.3	31.7	17.2	18.8	19.2	5.5	5.9	6.1			
FUNK G-4256	32.3	31.1	31.1	17.6	20.5	20.4	5.7	6.3	6.3			
RENK RK64	32.3	--	--	17.2	--	--	5.6	--	--			
GREAT LAKES GL-516	32.2	--	--	20.6	--	--	6.6	--	--			
PIONEER 3747	32.2	31.1	--	16.8	18.0	--	5.4	5.6	--			
GREAT LAKES GL-547	31.8	30.9	--	21.3	21.0	--	6.8	6.5	--			
CARDINAL SX112	31.7	--	--	22.1	--	--	7.0	--	--			
GOLDEN HARVEST EX706	31.7	--	--	18.3	--	--	5.8	--	--			
GREAT LAKES GL-490	31.4	--	--	16.6	--	--	5.2	--	--			
PAYCO SX599	31.4	30.7	31.4	15.9	18.9	18.4	5.0	5.7	5.7			
STANTON SX100	31.3	30.5	30.4	16.8	17.0	19.8	5.2	5.1	5.9			
PRO-SEED HYLAND LG18	31.0	--	--	16.6	--	--	5.1	--	--			
DEKALB-PFIZER T1000	31.0	29.9	30.1	18.1	20.1	20.1	5.6	6.0	6.0			
FUNK 2011X	30.9	--	--	15.5	--	--	4.8	--	--			
SUPER CROST 2989	30.9	--	--	21.1	--	--	6.5	--	--			
ASGROW RX480	30.9	--	--	17.2	--	--	5.3	--	--			
CARGILL 818	30.9	--	--	17.3	--	--	5.3	--	--			
PRIDE 4422	30.8	--	--	18.8	--	--	5.9	--	--			

TABLE 12 (CONTINUED) NORTH CENTRAL MICHIGAN
SANILAC COUNTY TRIAL-SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	2			2			2			2		
	1984	YR	YR	1984	YR	YR	1984	YR	YR	1984	YR	YR
FUNK G-4323	30.6	30.9	29.2	21.0	20.5	21.5	6.4	6.3	6.2			
FUNK 3026X	30.5	--	--	15.7	--	--	4.8	--	--			
P-A-G SX180	30.3	--	--	17.1	--	--	5.2	--	--			
VORIS V2471	30.2	--	--	17.7	--	--	5.3	--	--			
FUNK G-4342	30.1	30.9	30.7	16.6	19.6	20.2	5.0	6.1	6.2			
STAUFFER SEEDS S5340	30.0	--	--	19.5	--	--	5.9	--	--			
RENK RK25	30.0	--	--	19.5	--	--	5.9	--	--			
DEKALB-PFIZER XL-25A	29.8	28.3	27.4	19.5	20.7	21.8	5.8	5.8	6.0			
DAIRYLAND DX1105	29.8	29.2	28.3	16.4	18.9	20.1	4.9	5.5	5.7			
KING K5511	29.6	--	--	21.1	--	--	6.2	--	--			
GREAT LAKES 5922	29.6	29.1	29.0	22.0	23.4	24.5	6.5	6.8	7.1			
GRIES X490	29.5	--	--	16.9	--	--	5.0	--	--			
RENK RK60	29.5	28.5	--	20.5	21.2	--	6.0	6.0	--			
CUSTOM CFS EW95013	29.5	--	--	19.1	--	--	5.7	--	--			
GREAT LAKES GL-510	29.3	--	--	18.4	--	--	5.4	--	--			
ASGROW RX532	29.3	28.6	--	19.4	19.1	--	5.7	5.5	--			
GREAT LAKES GL-579	29.1	--	--	19.6	--	--	5.7	--	--			
ANDERSONS PSX-105	28.0	28.8	--	24.0	25.2	--	6.7	7.2	--			
RENK RK66	27.7	27.3	27.6	19.9	21.5	22.9	5.5	5.9	6.3			
VORIS V2451	27.7	27.4	--	23.4	22.6	--	6.5	6.2	--			
GOLDEN HARVEST H-2572	27.5	--	--	21.3	--	--	5.9	--	--			
STAUFFER SEEDS S5650	27.0	27.3	27.5	20.4	22.4	23.4	5.5	6.1	6.4			
ANDERSONS SILO FILLER	26.7	--	--	24.1	--	--	6.4	--	--			
CARDINAL 3422	26.5	--	--	18.9	--	--	5.0	--	--			
AVERAGE	33.6	32.4	32.1	17.1	18.5	19.3	5.7	5.9	6.1			
RANGE	26.5	27.3	27.4	10.7	12.4	12.0	4.1	4.8	4.7			
	44.9	40.0	41.0	24.1	25.2	24.5	7.0	7.2	7.1			
LEAST SIGNIFICANT DIFFERENCE	3.2	2.3	1.5	2.0	1.4	1.1	0.7	0.6	0.5			

	1984	1983	1982
PLANTED	May 4	May 13	May 1
HARVESTED	September 19	September 19	September 16
SOIL TYPE	Linwood loam	Linwood loam	Linwood loam and Tawas
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,700	21,000	22,000
ROWS	30"	30"	30"
FERTILIZER	175-125-120	184-96-228	213-161-120
SOIL TEST: pH	7.0	6.8	7.6
p	201 (very high)	206 (very high)	233 (very high)
k	581 (very high)	446 (very high)	344 (very high)

FARM COOPERATOR: Charles Cork, Peck

COUNTY EXTENSION DIRECTOR: Rex Sieting, Sandusky

TABLE 13 NORTH CENTRAL MICHIGAN
SAGINAW COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LOGGING		
	2			2			2		
	1984	YR	YR	1984	YR	YR	1984	YR	YR
PRIDE 1169	20.4	--	--	132.8	--	--	4.2	--	--
PRIDE 1194	21.5	--	--	139.5	--	--	3.6	--	--
PRIDE 2244	21.9	--	--	133.1	--	--	2.2	--	--
PAYCO SX599	22.6	21	20	126.1	123	124	0.7	3	2
STANTON SX90	22.7	22	21	109.6	127	130	3.9	4	3
LOWE 17	22.9	--	--	106.9	--	--	4.3	--	--
KING K2204	23.0	--	--	123.2	--	--	4.5	--	--
CARDINAL 3820	23.1	--	--	146.7	--	--	3.8	--	--
PAYCO SX431	23.3	21	21	114.8	109	120	11.5	9	8
KING K2203	23.4	--	--	130.6	--	--	0.8	--	--
DAIRYLAND DX1097	23.4	--	--	131.5	--	--	0.8	--	--
PRO-SEED HYLAND HL-2444	23.7	22	--	127.3	123	--	2.8	2	--
WOLVERINE X199	23.8	--	--	127.8	--	--	2.8	--	--
ANDERSONS PSX-93	23.9	23	--	127.2	132	--	4.5	3	--
WOLVERINE X195	24.0	--	--	111.6	--	--	8.3	--	--
PRO-SEED HYLAND HL-2455	24.3	--	--	118.9	--	--	4.0	--	--
LAND O' LAKES LOL-1096	24.3	--	--	153.6	--	--	2.2	--	--
CARDINAL 3222	24.5	--	--	154.6	--	--	3.7	--	--
GREAT LAKES GL-422	24.7	--	--	148.6	--	--	6.4	--	--
PAYCO SX620	24.9	24	--	138.9	135	--	6.5	6	--
GOLDEN HARVEST H-2300	24.9	24	22	144.8	147	143	5.0	5	5
STAUFFER SEEDS S3306	25.1	--	--	154.4	--	--	0.9	--	--
PAYCO SX700	25.3	--	--	147.6	--	--	5.6	--	--
DEKALB-PFIZER EXP348	25.5	--	--	135.9	--	--	2.8	--	--
PRIDE 3344	25.5	--	--	139.7	--	--	2.8	--	--
PIONEER 3744	25.6	24	23	147.0	154	154	1.4	2	2
CARGILL 829	25.6	--	--	139.6	--	--	6.9	--	--
DAIRYLAND DX1096	25.7	--	--	149.5	--	--	6.7	--	--
WOLVERINE W168	25.8	--	--	145.0	--	--	6.8	--	--
*PRO-SEED HYLAND HL-2454	25.8	--	--	159.3	--	--	3.5	--	--
NORTHROP KING PX9290	25.9	--	--	145.0	--	--	2.1	--	--
P-A-G SX180	25.9	--	--	138.2	--	--	3.5	--	--
*NATIONAL NA-1098	26.0	--	--	166.5	--	--	4.3	--	--
PIONEER 3737	26.0	--	--	150.8	--	--	6.9	--	--
PRO-SEED HYLAND LG18	26.0	--	--	150.5	--	--	3.0	--	--
DAIRYLAND DX1003	26.0	24	22	134.3	135	135	3.7	6	6
STANTON SX95	26.1	24	22	139.1	135	140	3.7	3	3
*PIONEER 3747	26.2	25	--	165.6	166	--	5.2	4	--
STAUFFER S3406WX	26.3	--	--	150.4	--	--	2.1	--	--
JACQUES JX97	26.3	--	--	149.2	--	--	1.4	--	--
GOLDEN HARVEST H-2424	26.3	--	--	145.5	--	--	3.3	--	--
DEKALB-PFIZER DK447	26.4	--	--	129.3	--	--	10.7	--	--
P-A-G SX193	26.4	--	--	124.3	--	--	5.7	--	--
*GREAT LAKES GL-487	26.5	24	--	161.6	155	--	5.3	3	--
*NORTHROP KING PX9353	26.5	24	--	160.8	155	--	2.2	2	--
SELECT 2600	26.5	--	--	138.4	--	--	7.5	--	--
*DEKALB-PFIZER XL-25A	26.6	25	24	164.7	160	159	2.3	3	2
*LOWE 237	26.6	--	--	176.4	--	--	0.8	--	--
ASGROW RX480	26.7	--	--	135.5	--	--	0.7	--	--
KING K4422	26.7	25	--	146.6	149	--	3.6	3	--
*RENK RK19	26.7	--	--	169.5	--	--	1.4	--	--
WOLVERINE W166	26.8	25	--	126.3	138	--	5.6	4	--
NORTHROP KING PX9242	26.8	--	--	153.8	--	--	0.8	--	--
*DEKALB-PFIZER T950	26.8	25	24	161.1	150	152	4.0	5	6
CARDINAL 3422	26.9	--	--	148.5	--	--	4.5	--	--
WOLVERINE X1100	26.9	--	--	155.6	--	--	4.7	--	--
KING K4464	26.9	25	--	145.1	135	--	4.6	2	--
LOWE 117	26.9	25	--	131.5	136	--	4.6	5	--
GARNO S-96X	27.0	--	--	128.1	--	--	4.5	--	--
P-A-G SX175	27.0	--	--	130.1	--	--	6.8	--	--
*GOLDEN HARVEST EX638	27.2	--	--	160.3	--	--	0.8	--	--
WOLVERINE X1101	27.3	--	--	122.1	--	--	3.2	--	--
PRO-SEED HYLAND LG22	27.3	--	--	146.1	--	--	0.8	--	--
DAIRYLAND DX1001	27.3	--	--	123.1	--	--	7.9	--	--
STANTON SX100	27.3	25	25	132.3	138	141	3.7	3	3
JACQUES S400	27.4	--	--	149.6	--	--	3.6	--	--
STAUFFER SEEDS S5340	27.5	--	--	150.9	--	--	2.9	--	--
GREAT LAKES GL-490	27.5	--	--	150.1	--	--	2.3	--	--
DAIRYLAND DX1006	27.5	26	25	149.2	138	142	6.3	5	4
WOLVERINE X1102	27.6	--	--	142.3	--	--	5.3	--	--
KALTENBERG KX64	27.6	--	--	135.5	--	--	2.3	--	--
KALTENBERG KX51	27.8	--	--	127.6	--	--	1.6	--	--
P-A-G SX195	27.9	26	--	149.9	144	--	2.2	2	--
STAUFFER SEEDS S4880	28.0	--	--	154.4	--	--	5.1	--	--
FUNK G-4342	28.0	26	25	141.8	135	142	7.0	6	5
P-A-G SX239	28.0	26	--	151.8	140	--	1.6	8	--
*DEKALB-PFIZER T1000	28.1	26	25	166.6	152	150	5.4	6	5
FUNK G-4323	28.2	26	25	153.8	145	148	2.3	2	1
CARGILL 861	28.3	--	--	137.6	--	--	6.7	--	--
DEKALB-PFIZER DK484	28.4	26	--	151.0	145	--	3.1	3	--

TABLE 13 (CONTINUED)

NORTH CENTRAL MICHIGAN
SAGINAW COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
*SELECT 3100	28.4	--	--	160.6	--	--	2.9	--	--
*RENK RK64	28.4	--	--	161.3	--	--	2.2	--	--
ANDERSONS PSX-100	28.4	--	--	129.2	--	--	3.6	--	--
GOLDEN HARVEST H-2480	28.4	27	--	147.8	157	--	1.5	1	--
GREAT LAKES GL-510	28.6	--	--	155.9	--	--	4.5	--	--
*SELECT 3720	28.6	--	--	166.6	--	--	3.9	--	--
GREAT LAKES GL-579	28.7	--	--	150.4	--	--	0.0	--	--
LOWE 217	28.7	--	--	146.0	--	--	3.6	--	--
DAIRYLAND DX1107	28.7	--	--	157.7	--	--	1.4	--	--
*CARDINAL SX112	28.8	--	--	162.0	--	--	0.7	--	--
GREAT LAKES GL-516	28.8	27	26	155.4	154	153	2.1	3	3
PAYCO SX750	28.8	--	--	136.1	--	--	3.7	--	--
*GREAT LAKES GL-547	28.9	27	--	164.8	163	--	2.2	3	--
RENK RK60	28.9	26	--	154.2	144	--	2.4	2	--
O'S GOLD 6880	28.9	27	25	143.0	146	150	10.4	9	7
*FARMERS FCC224A	28.9	27	25	169.3	156	162	3.8	4	3
*FUNK 3026X	29.0	--	--	159.7	--	--	2.3	--	--
GRIES X490	29.0	--	--	139.6	--	--	5.5	--	--
GOLDEN HARVEST EX706	29.1	--	--	150.0	--	--	4.0	--	--
DAIRYLAND DX1105	29.2	27	25	158.2	162	164	5.2	4	4
VORIS V2472	29.2	27	25	143.0	153	157	4.6	3	3
GREAT LAKES 5922	29.2	27	26	158.0	166	165	0.0	0	1
RENK RK35	29.3	--	--	150.3	--	--	4.4	--	--
*SELECT 3300	29.4	--	--	159.9	--	--	0.8	--	--
O'S GOLD 1170A	29.6	27	26	141.8	153	154	1.4	1	2
DEKALB-PFIZER DK505	29.8	--	--	157.4	--	--	4.4	--	--
MFI 1812	30.0	--	--	135.4	--	--	5.3	--	--
ANDERSONS PSX-105	30.1	27	--	156.4	165	--	0.8	1	--
*MFI 1776	30.2	--	--	167.0	--	--	4.4	--	--
STAUFFER SEEDS S5650	30.6	28	26	157.3	160	159	4.9	3	3
VORIS V2451	30.8	28	--	157.5	157	--	1.5	2	--
*FARMERS FCC251	30.8	28	--	171.2	174	--	2.2	1	--
RENK RK66	31.1	28	--	145.2	163	--	0.0	0	--
*SUPER CROST 4307	32.1	--	--	167.0	--	--	0.7	--	--
*SUPER CROST 5438	32.2	30	--	167.1	165	--	0.0	1	--
AVERAGE	27.1	26	24	145.8	147	147	3.5	3	4
RANGE	20.4	21	20	106.9	109	120	0.0	0	1
	70	TO	TO	70	TO	TO	70	TO	TO
	32.2	30	26	176.4	174	165	11.5	9	8
LEAST SIGNIFICANT DIFFERENCE	1.9	1.2	0.9	13.4	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 9	May 11	May 5
HARVESTED	October 25	October 21	November 2
SOIL TYPE	Parkhill loam	Parkhill loam	Parkhill loam
PREVIOUS CROP	Sugar beets	Sugar beets	Wheat
POPULATION	21,200	21,100	21,300
ROWS	30"	30"	30"
FERTILIZER	244-79-161+Zn+S	224-96-246	213-53-113
SOIL TEST: pH	7.3	7.2	7.8
p	123 (very high)	383 (very high)	144 (very high)
k	372 (very high)	438 (very high)	301 (high)

FARM COOPERATOR: Reinhold Farms, Reese

COUNTY AGRICULTURAL AGENT: Steve Poindexter, Saginaw

TABLE 14

NORTH CENTRAL MICHIGAN
HURON COUNTY TRIAL - GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
CARGILL 818	24.3	26	--	98.1	97	--	4.2	3	--
STANTON SX90	24.4	26	26	114.2	115	116	2.2	1	2
CARGILL 822	24.5	--	--	109.2	--	--	1.6	--	--
DAIRYLAND DX1097	24.9	--	--	116.3	--	--	11.9	--	--
PAYCO SX431	25.2	26	25	98.8	89	106	5.6	4	7
ASGROW RX420	25.5	--	--	117.2	--	--	3.1	--	--
DAIRYLAND DX1096	25.7	27	27	109.0	107	115	0.0	0	3
PAYCO SX599	25.7	27	26	129.7	123	125	0.7	1	2
SOHIGRO S-29	25.9	28	--	136.6	126	--	0.0	1	--
GREAT LAKES GL-422	26.1	27	27	132.4	122	129	2.8	1	2
NORTHROP KING PX9290	26.1	--	--	122.1	--	--	1.6	--	--
CARGILL 829	26.1	--	--	138.4	--	--	1.4	--	--
WOLVERINE X190	26.2	--	--	111.4	--	--	4.4	--	--
STAUFFER SEEDS S2202	26.3	--	--	128.0	--	--	5.3	--	--
DEKALB-PFIZER DX447	26.3	--	--	132.8	--	--	3.6	--	--
FUNK 1011X	26.3	--	--	102.5	--	--	0.0	--	--
LAND O' LAKES L0L-1096	26.3	--	--	126.7	--	--	4.3	--	--
WOLVERINE X195	26.4	--	--	122.9	--	--	1.5	--	--
PIONEER 3901	26.4	28	27	126.4	125	130	2.4	2	3
CARDINAL 3222	26.5	--	--	134.4	--	--	2.9	--	--
ANDERSONS PSX-93	26.7	28	--	129.8	124	--	1.5	1	--
CARGILL 834	26.9	27	27	132.8	111	117	2.4	3	4
*FUNK G-4256	27.0	28	28	147.8	121	126	1.5	1	2
WOLVERINE W166	27.1	29	30	136.0	134	135	2.3	1	2
NORTHROP KING PX9242	27.1	--	--	128.5	--	--	1.4	--	--
SOHIGRO S-25	27.2	29	30	127.7	114	126	3.5	2	4
FUNK 2011X	27.3	--	--	124.3	--	--	5.7	--	--
PAYCO SX620	27.3	28	--	112.2	111	--	2.2	1	--
P-A-G SX179	27.4	29	--	130.7	119	--	2.9	1	--
PAYMASTER 1990	27.4	29	--	145.3	121	--	1.7	1	--
*PIONEER 3747	27.5	29	--	148.5	144	--	1.4	1	--
STANTON SX95	27.5	28	28	129.3	113	118	0.8	0	2
STAUFFER SEEDS S3306	27.7	28	28	118.9	116	124	3.9	3	4
*GREAT LAKES GL-487	27.7	29	--	151.5	136	--	1.5	1	--
WOLVERINE X199	27.8	--	--	145.7	--	--	2.9	--	--
P-A-G SX180	27.8	--	--	127.9	--	--	0.8	--	--
LOWE 17	27.8	--	--	143.5	--	--	1.7	--	--
GOLDEN HARVEST EX706	27.8	--	--	139.9	--	--	0.7	--	--
KING K2204	28.0	28	--	122.7	106	--	0.0	0	--
DEKALB-PFIZER EXP348	28.1	--	--	144.6	--	--	1.5	--	--
GREAT LAKES GL-490	28.1	--	--	136.3	--	--	1.5	--	--
GARNO S-96X	28.4	--	--	143.9	--	--	0.7	--	--
*PIONEER 3744	28.4	30	30	148.3	147	148	3.8	2	2
KING K4423	28.4	--	--	138.2	--	--	3.0	--	--
DEKALB-PFIZER T950	28.4	29	29	126.2	126	121	5.3	3	7
*FUNK G-4342	28.5	30	--	148.9	136	--	0.0	1	--
ASGROW RX480	28.6	--	--	141.3	--	--	2.8	--	--
*STAUFFER SEEDS S4402	28.7	30	29	148.7	125	128	0.0	0	1
*KING K4422	28.7	--	--	156.2	--	--	1.5	--	--
LOWE 117	28.7	29	--	124.5	112	--	1.4	2	--
JACQUES EXP.3091	28.8	--	--	113.6	--	--	2.3	--	--
*WOLVERINE X1102	28.8	--	--	154.4	--	--	1.4	--	--
JACQUES JX77	28.9	--	--	136.2	--	--	0.7	--	--
DEKALB-PFIZER T1000	28.9	30	31	125.5	124	131	3.1	2	3
PAYCO SX700	28.9	--	--	124.5	--	--	0.0	--	--
SUPER CROST 1940	29.0	30	29	140.6	124	133	5.9	3	4
KING K4464	29.0	--	--	136.8	--	--	0.0	--	--
CARDINAL 3422	29.1	--	--	139.3	--	--	8.4	--	--
FUNK 3012X	29.1	--	--	138.8	--	--	29.1	--	--
DAIRYLAND DX1001	29.1	--	--	141.4	--	--	2.8	--	--
DAIRYLAND DX1006	29.1	30	31	123.1	110	119	6.6	4	3
*PIONEER 3737	29.2	--	--	150.9	--	--	1.5	--	--
LOWE 217	29.2	30	--	133.9	123	--	3.5	2	--
GOLDEN HARVEST H-2300	29.2	30	29	128.3	121	127	0.0	0	2
DEKALB-PFIZER XL-25A	29.3	30	30	141.6	123	130	0.0	0	0
*GREAT LAKES GL-516	29.3	30	31	155.5	132	137	0.0	1	1
NORTHROP KING PX9353	29.4	30	--	138.5	143	--	1.4	1	--
O'S GOLD 2389	29.5	--	--	119.6	--	--	2.9	--	--
KING K4474	29.6	--	--	140.3	--	--	0.0	--	--
*SOHIGRO S-35	29.6	31	--	147.7	120	--	0.0	0	--
*GREAT LAKES 5922	29.6	31	31	152.9	148	152	1.6	1	1
FUNK 3026X	29.7	--	--	145.1	--	--	0.0	--	--
*GARNO S-100X	29.7	--	--	147.6	--	--	6.7	--	--
P-A-G SX175	29.7	--	--	140.4	--	--	0.0	--	--
*DAIRYLAND DX1003	29.7	30	30	149.9	127	139	0.7	1	1
PAYCO SX750	29.8	--	--	127.4	--	--	2.9	--	--
STAUFFER SEEDS S3406WX	29.9	29	30	135.5	107	120	0.0	1	3
*DEKALB-PFIZER DK484	29.9	31	--	149.2	131	--	3.0	2	--
STAUFFER SEEDS S606WX	30.3	31	--	132.7	136	--	2.2	1	--
STANTON SX100	30.4	31	30	127.3	115	125	1.5	1	2

TABLE 14 (CONTINUED)

NORTH CENTRAL MICHIGAN
HURON COUNTY TRIAL - GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
CARGILL 861	30.5	31	--	143.5	119	--	2.7	1	--
*GREAT LAKES 83452	30.6	--	--	148.7	--	--	0.0	--	--
PRIDE 4422	30.6	--	--	144.6	--	--	1.6	--	--
MFI 1812	30.6	--	--	130.0	--	--	2.9	--	--
GREAT LAKES GL-579	30.8	31	--	143.6	130	--	0.7	1	--
ANDERSONS PSX-100	30.8	--	--	124.6	--	--	0.0	--	--
*SUPER CROST 2410	30.9	31	31	148.5	135	141	2.2	1	3
GREAT LAKES GL-510	31.0	--	--	146.7	--	--	0.0	--	--
*LOWE 237	31.0	--	--	151.7	--	--	0.0	--	--
*STAUFFER SEEDS 55650	31.1	31	32	148.3	143	141	2.1	2	1
STAUFFER SEEDS 55340	31.1	--	--	142.7	--	--	0.0	--	--
GREAT LAKES GL-547	31.1	31	--	135.5	125	--	0.8	0	--
DAIRYLAND DX1107	31.1	--	--	140.6	--	--	1.5	--	--
*DEKALB-PFIZER DK505	31.5	--	--	150.8	--	--	0.0	--	--
P-A-G SX239	31.5	--	--	131.4	--	--	3.7	--	--
GOLDEN HARVEST H-2572	31.5	--	--	134.3	--	--	0.7	--	--
SOHIGRO S-39	31.7	32	33	132.3	132	138	1.5	1	2
GRIES X490	31.8	--	--	117.4	--	--	2.2	--	--
*MFI 1776	31.8	--	--	161.2	--	--	0.7	--	--
ANDERSONS PSX-105	32.0	31	--	115.0	104	--	3.0	2	--
GREAT LAKES GL-608	32.2	--	--	133.9	--	--	2.2	--	--
ANDERSONS SILO FILLER	32.6	--	--	132.9	--	--	3.6	--	--
*SUPER CROST 4337	33.9	--	--	149.9	--	--	0.0	--	--
AVERAGE	28.7	29	29	134.3	123	128	2.0	1	2
RANGE	24.3	26	25	98.1	89	106	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	33.9	32	33	161.2	148	152	11.9	4	7
LEAST SIGNIFICANT DIFFERENCE	2.1	1.5	1.0	12.9	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 4	May 13	May 1
HARVESTED	October 24	October 21	October 26
SOIL TYPE	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	20,700	20,500	21,300
ROWS	30"	30"	30"
FERTILIZER	234-123-18	204-94-114	199-83-150 + Zn
SOIL TEST: pH	7.0	6.9	7.3
p	158 (very high)	128 (very high)	152 (very high)
k	424 (very high)	362 (very high)	360 (very high)

FARM COOPERATOR: William McCree, Bad Axe

COUNTY AGRICULTURAL AGENT: Jim LeCureux, Bad Axe (1984);

DISTRICT LIVESTOCK AGENT: Lee Herschelsky, Bad Axe (1983, 1982)

TABLE 15

NORTH CENTRAL MICHIGAN
HURON COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			TONS PER ACRE			DRY WEIGHT		
	1984	2	3	1984	2	3	1984	2	3	1984	2	3
PAYCO SX431	43.8	40.7	40.6	14.1	13.1	13.8	6.2	5.4	5.6			
LOWE 17	39.8	--	--	12.2	--	--	4.8	--	--			
KING K2204	39.1	36.4	--	15.3	15.2	--	6.0	5.5	--			
JACQUES EXP. 3091	38.5	--	--	16.1	--	--	6.2	--	--			
WOLVERINE X190	38.1	--	--	11.5	--	--	4.4	--	--			
STAUFFER SEEDS S2202	36.8	--	--	17.0	--	--	6.1	--	--			
P-A-G SX179	35.7	33.5	--	18.8	15.9	--	6.7	5.4	--			
FUNK 1011X	35.4	--	--	18.3	--	--	6.5	--	--			
PIONEER 3901	35.2	34.5	35.2	18.6	18.3	19.1	6.5	6.3	6.7			
PAYCO SX599	35.2	36.0	36.0	17.5	16.2	16.7	6.2	5.8	6.0			
P-A-G SX180	34.6	--	--	18.5	--	--	6.3	--	--			
PAYCO SX620	34.1	34.7	--	18.5	17.9	--	6.3	6.2	--			
DAIRYLAND DX1097	34.0	--	--	20.9	--	--	7.1	--	--			
GOLDEN HARVEST H-2300	33.6	33.5	33.7	20.7	19.1	19.3	6.9	6.4	6.5			
SOHIGRO S-29	33.6	35.0	--	20.7	18.0	--	7.0	6.3	--			
STAUFFER SEEDS S3406WX	33.5	32.2	33.2	19.4	18.7	19.2	6.5	5.9	6.3			
WOLVERINE X195	33.5	--	--	17.5	--	--	5.9	--	--			
LAND O' LAKES LOL-1096	33.4	--	--	21.3	--	--	7.1	--	--			
CARGILL 822	33.3	--	--	16.0	--	--	5.3	--	--			
NORTHURP KING PX9353	32.9	32.3	--	21.1	21.7	--	6.9	7.0	--			
GREAT LAKES GL-422	32.8	33.8	34.6	20.7	18.7	19.2	6.8	6.3	6.6			
KING K4423	32.7	--	--	22.9	--	--	7.5	--	--			
DEKALB-PFIZER T950	32.7	32.6	33.3	22.5	21.5	20.8	7.3	7.0	6.9			
DAIRYLAND DX1001	32.6	--	--	19.5	--	--	6.4	--	--			
STANTON SX90	32.6	33.0	34.4	17.5	18.0	18.1	5.7	5.9	6.2			
SUPER CROST 1940	32.4	32.5	33.4	23.7	20.6	21.0	7.6	6.6	7.0			
O'S GOLD 2389	32.4	--	--	21.9	--	--	7.1	--	--			
NORTHURP KING PX9290	32.3	--	--	19.2	--	--	6.1	--	--			
P-A-G SX175	32.3	--	--	17.0	--	--	5.5	--	--			
NORTHURP KING PX9242	32.2	--	--	24.5	--	--	7.8	--	--			
WOLVERINE X199	32.1	--	--	20.0	--	--	6.4	--	--			
CARGILL 829	31.9	--	--	21.0	--	--	6.7	--	--			
STAUFFER SEEDS S3306	31.7	31.7	32.9	17.5	15.6	16.8	5.4	4.9	5.5			
JACQUES JX77	31.6	--	--	21.9	--	--	6.9	--	--			
ANDERSONS PSX-93	31.6	31.6	--	22.0	19.8	--	6.8	6.2	--			
PAYCO SX700	31.6	--	--	21.3	--	--	6.7	--	--			
LOWE 117	31.5	31.6	--	19.4	16.8	--	6.1	5.3	--			
STAUFFER SEEDS S4402	31.3	31.7	33.1	23.1	19.7	20.3	7.2	6.2	6.7			
P-A-G SX239	31.3	--	--	21.5	--	--	6.7	--	--			
CARDINAL 3222	31.0	--	--	23.2	--	--	7.2	--	--			
DAIRYLAND DX1096	31.0	31.2	32.2	18.0	16.9	18.0	5.6	5.3	5.8			
STANTON SX95	30.9	31.6	33.6	17.5	17.8	18.3	5.4	5.6	6.1			
FUNK G-4256	30.8	32.7	33.6	23.2	20.3	20.6	7.2	6.6	6.9			
CARGILL 834	30.8	31.7	34.2	20.0	18.9	18.4	6.1	5.9	6.2			
CARGILL 818	30.7	31.5	--	21.5	19.8	--	6.6	6.2	--			
GARMO S-96X	30.6	--	--	22.9	--	--	7.0	--	--			
PIONEER 3737	30.6	--	--	20.0	--	--	6.1	--	--			
DAIRYLAND DX1003	30.6	31.4	32.0	17.9	17.2	17.8	5.5	5.4	5.7			
GREAT LAKES GL-487	30.5	31.5	--	22.3	21.6	--	6.8	6.8	--			
SUPER CROST 2410	30.4	30.5	31.4	21.8	19.8	20.5	6.6	6.0	6.4			
CARGILL 861	30.4	32.2	--	20.1	18.4	--	6.1	5.9	--			
PAYMASTER 1990	30.3	30.4	--	21.9	18.9	--	6.6	5.7	--			
FUNK 2011X	29.9	--	--	17.3	--	--	5.2	--	--			
WOLVERINE W166	29.9	29.6	31.1	24.5	20.7	20.0	7.3	6.1	6.2			
KING K4422	29.8	--	--	25.7	--	--	7.6	--	--			
FUNK 3012X	29.6	--	--	20.1	--	--	6.0	--	--			
PIONEER 3747	29.4	29.4	--	24.5	20.5	--	7.2	6.0	--			
ASGROW RX480	29.3	--	--	23.9	--	--	7.0	--	--			
PRIDE 4422	29.2	--	--	21.5	--	--	6.3	--	--			
SOHIGRO S-35	29.2	30.6	--	26.4	22.2	--	7.7	6.7	--			
MFI 1812	29.2	--	--	25.6	--	--	7.5	--	--			
SOHIGRO S-25	29.1	30.2	32.1	24.3	20.8	20.6	7.1	6.2	6.6			
GREAT LAKES GL-510	29.0	--	--	24.6	--	--	7.2	--	--			
KING K4464	29.0	--	--	22.7	--	--	6.6	--	--			
DEKALB-PFIZER DK484	28.8	29.8	--	24.6	21.3	--	7.1	6.3	--			
DAIRYLAND DX1006	28.7	30.0	30.7	23.2	20.7	20.9	6.7	6.2	6.4			
GREAT LAKES GL-516	28.6	29.5	31.6	21.0	19.8	20.7	6.0	5.8	6.4			
GREAT LAKES GL-547	28.6	28.6	--	21.7	20.4	--	6.2	5.8	--			
KING K4474	28.6	--	--	24.8	--	--	7.1	--	--			
GREAT LAKES GL-490	28.5	--	--	25.7	--	--	7.3	--	--			
GREAT LAKES GL-579	28.5	28.6	--	25.8	25.7	--	7.4	7.4	--			
GOLDEN HARVEST EX706	28.5	--	--	20.7	--	--	5.9	--	--			
STAUFFER SEEDS S5340	28.3	--	--	25.1	--	--	7.1	--	--			
DAIRYLAND DX1107	28.3	--	--	29.4	--	--	8.3	--	--			
DEKALB-PFIZER XL-25A	28.2	29.7	30.9	23.0	19.5	19.3	6.5	5.7	5.9			
ASGROW RX420	28.2	--	--	20.5	--	--	5.8	--	--			
DEKALB-PFIZER T1000	28.1	30.3	32.0	26.7	23.6	23.2	7.5	7.1	7.4			
CARDINAL 3422	28.0	--	--	25.4	--	--	7.1	--	--			
GARMO S-100X	28.0	--	--	24.6	--	--	6.9	--	--			
GREAT LAKES 83452	28.0	--	--	27.0	--	--	7.6	--	--			

TABLE 15 (CONTINUED) NORTH CENTRAL MICHIGAN
HURON COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	2		3	2		3	2		3
	1984	YR	YR	1984	YR	YR	1984	YR	YR
ANDERSONS PSX-100	28.0	--	--	20.5	--	--	5.7	--	--
STANTON SX100	28.0	30.1	31.2	20.8	17.9	19.2	5.8	5.3	6.0
PAYCO SX750	27.9	--	--	23.6	--	--	6.6	--	--
SOHIGRO S-39	27.6	27.9	28.9	20.1	21.0	22.5	5.6	5.9	6.5
STAUFFER SEEDS S5650	27.5	27.8	28.7	21.0	20.4	21.7	5.8	5.7	6.3
DEKALB-PFIZER DK505	27.2	--	--	20.8	--	--	5.6	--	--
FUNK 3026X	27.1	--	--	19.3	--	--	5.2	--	--
LOWE 217	27.0	28.8	--	24.1	20.4	--	6.5	5.8	--
STAUFFER SEEDS S606WX	26.9	28.7	--	23.9	23.0	--	6.4	6.6	--
GRILES X490	26.9	--	--	21.4	--	--	5.7	--	--
GREAT LAKES 5922	26.9	28.2	29.1	29.1	26.4	26.0	7.8	7.4	7.5
FUNK G-4342	26.7	28.3	--	23.2	21.8	--	6.2	6.2	--
MFI 1776	26.6	--	--	28.7	--	--	7.6	--	--
LOWE 237	26.4	--	--	25.6	--	--	6.7	--	--
ANDERSONS PSX-105	26.3	27.2	--	24.8	24.4	--	6.5	6.6	--
PIONEER 3744	26.1	29.1	30.1	23.4	21.8	21.8	6.1	6.3	6.5
VOLVERINE X1102	25.9	--	--	22.8	--	--	5.9	--	--
DEKALB-PFIZER EXP348	25.3	--	--	28.0	--	--	7.1	--	--
DEKALB-PFIZER DK447	25.2	--	--	23.9	--	--	6.0	--	--
ANDERSONS SILO FILLER	25.1	--	--	32.9	--	--	8.2	--	--
SUPER CROST 4337	24.9	--	--	26.4	--	--	6.6	--	--
GREAT LAKES GL-608	24.7	--	--	26.5	--	--	6.6	--	--
GOLDEN HARVEST H-2572	23.0	--	--	26.3	--	--	6.1	--	--
AVERAGE	30.5	31.3	32.6	21.8	19.7	19.8	6.5	6.1	6.4
RANGE	23.0	27.2	28.7	11.5	13.1	13.8	4.4	4.9	5.5
	43.8	40.7	40.6	32.9	26.4	26.0	8.3	7.4	7.5
LEAST SIGNIFICANT DIFFERENCE	3.3	2.3	1.6	1.9	1.5	1.1	0.7	0.6	0.5

	1984	1983	1982
PLANTED	May 4	May 13	May 1
HARVESTED	September 13	September 19	September 15
SOIL TYPE	Kilmanagh loam	Kilmanagh loam	Kilmanagh loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,800	21,100	22,000
ROWS	30"	30"	30"
FERTILIZER	234-123-18	204-94-114	199-83-150 + Zn
SOIL TEST: pH	7.0	6.9	7.3
p	158 (very high)	128 (very high)	152 (very high)
k	424 (very high)	362 (very high)	360 (very high)

FARM COOPERATOR: William McCrea, Bad Axe

COUNTY AGRICULTURAL AGENT: Jim Le Couteux (1984), Bad Axe;
DISTRICT LIVESTOCK AGENT: Lee Warschewsky (1983, 1982), Bad Axe

TABLE 16 NORTH CENTRAL MICHIGAN
ISABELLA COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	2		3	2		3	2		3
	1984	YR	YR	1984	YR	YR	1984	YR	YR
PRIDE 1194	20.4	--	--	86.5	--	--	1.4	--	--
PRIDE 1169	20.5	--	--	86.9	--	--	5.5	--	--
STAUFFER SEEDS S2202	21.2	--	--	66.2	--	--	0.0	--	--
PAYCO SX431	21.6	24	25	65.9	92	91	0.0	6	5
FUNK 1011X	22.0	--	--	74.7	--	--	0.0	--	--
PRO-SEED HYLAND HL-2414	22.2	--	--	67.9	--	--	0.0	--	--
DAIRYLAND DX1097	22.2	--	--	77.1	--	--	0.7	--	--
KING K2203	22.3	25	--	79.5	101	--	3	8	--
KING K2204	22.3	25	--	83.9	102	--	0.0	4	--
STANTON SX90	22.3	25	25	86.0	105	96	0.0	4	4
GREAT LAKES GL-381	22.7	--	--	73.1	--	--	0.0	--	--
ANDERSONS PSX-93	22.7	25	--	90.2	100	--	0.7	3	--
PAYCO SX599	22.7	25	26	80.6	100	87	0.0	3	2
GREAT LAKES GL-422	22.8	25	25	104.8	120	110	2.8	6	5
PRIDE 2244	23.0	--	--	76.9	--	--	2.1	--	--
PRIDE 3344	23.0	--	--	86.8	--	--	1.5	--	--
*PIONEER 3901	23.1	26	26	105.6	126	117	0.7	3	2
JACQUES EXP 3091	23.2	--	--	68.9	--	--	1.6	--	--
DAIRYLAND DX1094	23.2	--	--	93.0	--	--	0.9	--	--
FUNK G-4141A	23.4	26	27	77.2	95	88	0.7	5	5
GARNO S90	23.4	25	--	99.4	117	--	2.9	6	--
PRO-SEED HYLAND LG18	23.5	--	--	100.6	--	--	2.7	--	--
PAYCO SX620	23.5	26	--	81.2	111	--	2.8	4	--
GREAT LAKES GL-487	23.6	28	--	98.8	127	--	0.7	2	--
DAIRYLAND DX1001	23.7	--	--	86.7	--	--	1.7	--	--
*PIONEER 3744	23.8	--	--	107.9	--	--	1.4	--	--
STANTON SX95	23.8	26	28	93.1	101	96	2.1	1	2
CARDINAL 3222	23.9	--	--	101.4	--	--	1.4	--	--
JACQUES JX77	23.9	27	--	83.5	106	--	0.0	4	--
*PIONEER 3737	23.9	--	--	104.1	--	--	0.8	--	--
FUNK 2011X	24.1	--	--	76.9	--	--	1.0	--	--
PRO-SEED HYLAND HL-2455	24.1	--	--	95.6	--	--	1.4	--	--
FUNK G-4256	24.2	27	26	97.7	121	107	5.0	7	6
GREAT LAKES GL-466	24.4	28	28	106.3	121	113	0.0	5	4
*KING K4422	24.5	28	--	118.5	130	--	0.0	4	--
SUPER CROST 1940	24.6	28	29	99.0	116	109	4.8	6	4
*KING K4423	24.6	28	--	106.1	123	--	0.7	5	--
*LAND O' LAKES LOL-1096	24.7	--	--	105.1	--	--	0.0	--	--
DAIRYLAND DX1096	24.8	--	--	103.3	--	--	0.0	--	--
STAUFFER SEEDS S3306	24.9	--	--	104.4	--	--	0.0	--	--
*PIONEER 3747	24.9	28	--	105.7	126	--	0.7	3	--
JACQUES JX97	25.0	28	28	119.6	129	118	1.4	5	4
ANDERSONS PSX-100	25.5	--	--	88.7	--	--	2.1	--	--
STAUFFER SEEDS S3406WX	25.6	--	--	105.0	--	--	1.4	--	--
DEKALB-PFIZER XL-25A	25.9	29	29	97.9	119	103	0.0	3	3
DAIRYLAND DX1003	25.9	29	30	107.6	117	105	1.5	5	5
STANTON SX100	26.0	28	29	105.8	122	109	4.7	4	3
SUPER CROST 2288	26.2	--	--	101.1	--	--	0.0	--	--
DEKALB-PFIZER DK484	26.9	30	--	86.3	116	--	1.4	6	--
SUPER CROST 2410	27.1	30	31	98.3	125	109	0.8	4	3
O'S GOLD 6880	27.2	--	--	99.2	--	--	0.7	--	--
CARDINAL SX112	27.6	--	--	106.3	--	--	0.0	--	--
DEKALB-PFIZER T1000	28.1	30	31	102.6	127	116	0.0	3	3
AVERAGE	24.1	27	28	92.5	115	105	1.2	4	4
RANGE	20.4	24	25	65.9	92	87	0.0	1	2
	28.1	30	31	119.6	130	118	5.5	8	6
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	0.9	10.0	8	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 7	May 18	May 15
HARVESTED	November 2	October 22	November 2
SOIL TYPE	Ithaca loam	Isabella loam	Isabella loam
PREVIOUS CROP	Wheat and mammoth sweet clover	Wheat	Corn
POPULATION	21,400	21,200	21,500
ROWS	38"	38"	38"
FERTILIZER	145-81-147	133-100-103	129-100-133
SOIL TEST: pH	7.5	6.6	6.7
p	102 (high)	60 (medium high)	68 (medium high)
k	360 (very high)	185 (medium)	301 (high)

FARM COOPERATOR: Bill, Fred and Steve Zeien, Beal City (1984);
Floyd Hauck, Rosebush (1983, 1982)

COUNTY EXTENSION DIRECTOR: Lyle Thompson, Mt. Pleasant

TABLE 17

NORTH CENTRAL MICHIGAN
MONTCALM COUNTY TRIAL-IRRIGATED VS NOT IRRIGATED
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE								% STALK LODGING					
	1984	2	3	1984	1984	2	2	3	3	1984	1984	2	2	3	3	1984	1984
	1984	YR	YR	IRR	NON	IRR	NON	IRR	NON	IRR	NON	IRR	NON	IRR	NON	IRR	NON
PRO-SEED HYLAND HL-2414	23.3	--	--	115.0	43.2	--	--	--	--	2.6	9.2	--	--	--	--	--	--
FUNK 2011X	23.7	--	--	156.5	71.4	--	--	--	--	0.8	3.6	--	--	--	--	--	--
KING K2203	23.9	--	--	146.3	63.1	--	--	--	--	1.4	3.7	--	--	--	--	--	--
KING K2204	23.9	--	--	146.7	57.5	--	--	--	--	2.1	4.2	--	--	--	--	--	--
PRO-SEED HYLAND LG18	24.1	--	--	152.1	69.8	--	--	--	--	3.4	8.5	--	--	--	--	--	--
STAUFFER SEEDS S2202	24.3	--	--	114.4	50.2	--	--	--	--	5.3	11.5	--	--	--	--	--	--
STANTON SX90	24.4	24	23	139.7	58.1	135	56	135	74	5.6	3.9	4	4	3	5	--	--
SUPER CROST 1621	24.7	--	--	153.4	61.7	--	--	--	--	2.2	2.5	--	--	--	--	--	--
PRO-SEED HYLAND HL-2444	24.7	--	--	118.1	49.8	--	--	--	--	2.5	5.7	--	--	--	--	--	--
FUNK 1011X	24.8	--	--	139.5	52.3	--	--	--	--	1.4	8.4	--	--	--	--	--	--
JACQUES EXP.3091	24.8	--	--	135.9	51.7	--	--	--	--	7.4	12.5	--	--	--	--	--	--
*+PIONEER 3901	24.9	25	24	174.7	79.2	173	77	169	93	0.7	4.3	4	9	4	8	--	--
GREAT LAKES GL-422	25.2	25	24	158.0	67.4	152	67	155	86	0.9	1.6	3	5	4	7	--	--
ANDERSON PSX93	25.2	25	--	128.8	53.3	135	50	--	--	0.8	4.6	3	5	--	--	--	--
GREAT LAKES GL-487	25.3	--	--	157.4	64.2	--	--	--	--	2.2	6.1	--	--	--	--	--	--
*+FUNK G-4256	25.4	--	--	172.2	78.3	--	--	--	--	1.5	4.1	--	--	--	--	--	--
LAND O'LAKES LOL-1096	25.4	--	--	123.3	60.2	--	--	--	--	1.5	0.0	--	--	--	--	--	--
DAIRYLAND DX1097	25.5	--	--	131.7	56.4	--	--	--	--	5.1	4.6	--	--	--	--	--	--
PAYCO SX620	25.5	26	--	138.9	58.0	145	59	--	--	1.7	7.0	6	10	--	--	--	--
*+SUPER CROST 2288	25.8	--	--	171.2	81.6	--	--	--	--	5.0	7.5	--	--	--	--	--	--
P-A-G SX180	25.8	--	--	152.2	67.8	--	--	--	--	4.3	8.5	--	--	--	--	--	--
*+STAUFFER SEEDS S4402	26.0	--	--	175.2	80.0	--	--	--	--	5.3	10.9	--	--	--	--	--	--
STANTON SX95	26.0	26	25	124.2	60.8	141	62	150	83	0.9	4.5	3	7	3	10	--	--
*+PIONEER 3744	26.1	27	25	168.0	80.0	176	85	171	99	2.2	4.8	4	3	3	5	--	--
DAIRYLAND DX1003	26.1	27	25	161.7	69.4	173	75	167	88	3.6	4.5	7	6	5	7	--	--
DEKALB-PFIZER DK447	26.2	--	--	142.0	64.7	--	--	--	--	4.8	6.3	--	--	--	--	--	--
STAUFFER SEEDS S3306	26.3	--	--	156.4	74.3	--	--	--	--	0.8	1.5	--	--	--	--	--	--
PRO-SEED HYLAND HL-2454	26.4	--	--	139.3	67.0	--	--	--	--	1.6	2.2	--	--	--	--	--	--
* SUPER CROST 1940	26.5	27	--	173.0	73.0	170	72	--	--	2.1	9.8	5	8	--	--	--	--
PRIDE 4422	26.5	--	--	151.6	66.2	--	--	--	--	1.6	6.7	--	--	--	--	--	--
*+GREAT LAKES GL-466	26.6	28	26	178.0	79.4	166	76	164	90	4.3	8.1	9	9	7	8	--	--
KING K4422	26.6	27	--	151.4	60.1	167	71	--	--	1.4	5.4	4	5	--	--	--	--
*+PIONEER 3737	26.7	--	--	186.3	87.2	--	--	--	--	2.9	7.0	--	--	--	--	--	--
*+JACQUES 5400	26.8	--	--	170.6	77.6	--	--	--	--	2.8	4.4	--	--	--	--	--	--
NORTHROP KING PX9902	26.8	--	--	127.9	49.0	--	--	--	--	3.0	4.8	--	--	--	--	--	--
P-A-G SX175	26.8	--	--	165.2	75.3	--	--	--	--	3.1	6.2	--	--	--	--	--	--
PIONEER 3747	26.8	27	--	138.4	61.1	148	69	--	--	3.5	3.0	6	4	--	--	--	--
DEKALB-PFIZER DK505	26.9	--	--	147.7	66.9	--	--	--	--	3.0	2.6	--	--	--	--	--	--
GARNO S-92X	26.9	--	--	147.8	66.1	--	--	--	--	3.0	12.1	--	--	--	--	--	--
*+FUNK 3012X	27.0	--	--	186.5	84.0	--	--	--	--	2.9	4.1	--	--	--	--	--	--
DAIRYLAND DX1096	27.0	26	25	132.6	51.8	138	58	144	77	0.0	2.9	2	6	4	7	--	--
GREAT LAKES GL-522	27.2	28	27	165.7	74.7	171	79	173	97	0.8	2.2	5	3	3	5	--	--
*+P-A-G SX193	27.2	28	--	169.0	77.0	149	70	--	--	2.8	2.8	11	7	--	--	--	--
DAIRYLAND DX1001	27.2	--	--	131.9	62.3	--	--	--	--	3.7	5.7	--	--	--	--	--	--
DEKALB-PFIZER EXP348	27.4	--	--	164.6	75.5	--	--	--	--	2.9	5.0	--	--	--	--	--	--
*+P-A-G SX195	27.4	--	--	173.7	79.2	--	--	--	--	3.4	5.1	--	--	--	--	--	--
STANTON SX100	27.5	27	27	120.4	54.3	136	60	139	80	4.0	3.6	11	6	10	8	--	--
PRO-SEED HYLAND LG22	27.6	--	--	134.9	66.7	--	--	--	--	1.7	3.9	--	--	--	--	--	--
DEKALB-PFIZER T950	27.7	28	27	155.8	63.4	160	65	150	77	2.9	8.9	5	9	5	10	--	--
*DEKALB-PFIZER DK484	27.8	28	--	165.4	77.5	180	80	--	--	3.0	5.8	7	7	--	--	--	--
*+FUNK G-4342	27.9	--	--	176.5	80.2	--	--	--	--	3.6	12.6	--	--	--	--	--	--
* ANDERSONS PSX-100	28.3	--	--	167.8	73.4	--	--	--	--	2.8	5.8	--	--	--	--	--	--
*+GOLDEN HARVEST H-2448	28.4	--	--	171.5	80.6	--	--	--	--	2.4	2.4	--	--	--	--	--	--
*+DEKALB-PFIZER T1000	28.6	29	28	177.9	79.4	173	74	171	91	3.6	8.1	7	6	6	7	--	--
GOLDEN HARVEST EX638	28.6	--	--	159.2	74.0	--	--	--	--	5.2	4.2	--	--	--	--	--	--
FUNK 3026X	29.1	--	--	155.4	68.2	--	--	--	--	2.8	0.7	--	--	--	--	--	--
GREAT LAKES GL-510	29.1	--	--	156.3	73.9	--	--	--	--	2.9	8.6	--	--	--	--	--	--
* PAYCO SX872	29.4	30	--	169.1	74.7	160	70	--	--	2.2	3.4	6	6	--	--	--	--
*+MFI 1812	29.5	31	--	174.0	80.6	173	78	--	--	3.1	5.9	5	9	--	--	--	--
+GREAT LAKES GL-516	29.6	--	--	160.0	79.4	--	--	--	--	1.4	3.6	--	--	--	--	--	--
*+MFI 1776	30.3	29	--	178.3	76.7	168	74	--	--	2.8	3.8	7	6	--	--	--	--
*+GOLDEN HARVEST H-2480	31.6	30	--	176.5	77.8	170	76	--	--	1.4	2.2	6	8	--	--	--	--
AVERAGE	26.7	27	25	152.3	68.6	158	69	157	86	2.7	5.3	6	6	5	7	--	--
RANGE	23.3	24	23	114.4	43.2	135	50	135	74	0.0	0.0	2	3	3	5	--	--
	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
	31.6	30	28	186.5	87.2	180	85	173	99	7.4	12.6	11	10	10	10	--	--

LEAST SIGNIFICANT

DIFFERENCE

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD, IRRIGATED, IN 1984

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD, NOT IRRIGATED, IN 1984

	1984	1983	1982
PLANTED	May 2	May 6	May 6
HARVESTED	October 27	October 24	November 3
SOIL TYPE	Montcalm-McBride sandy loam	Montcalm-McBride sandy loam	Montcalm-McBride sandy loam
PREVIOUS CROP	Potatoes	Potatoes	Alfalfa
POPULATION	21,000	21,400	21,000
ROWS	30"	30"	30"
FERTILIZER	340-125-125	330-125-125	342-139-139
IRRIGATION	8 inches	7 inches	4 inches
SOIL TEST: pH	6.6	5.8	5.6
p	555(very high)	417(very high)	562(very high)
k	240(high)	202(medium)	251(high)

FARM COOPERATOR: Theron Comden, Montcalm Research Farm, Lakeview

COUNTY EXTENSION DIRECTOR: William Carpenter, Stanton (1984,1983)
James Crosby, Stanton (1982)

TABLE 18

NORTH CENTRAL MICHIGAN
MASON-OCEANA COUNTIES TRIAL-IRRIGATED
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
KING K1184	20.5	--	--	98.3	--	--	1.5	--	--
PRIDE 1169	21.1	--	--	92.9	--	--	8.0	--	--
PRIDE 1194	21.7	--	--	105.7	--	--	2.1	--	--
PAYCO SX599	22.0	23	22	114.6	116	120	1.4	8	8
KING K2203	22.5	24	--	113.1	119	--	0.0	6	--
KING K1163	22.9	23	--	90.7	82	--	4.4	7	--
STAUFFER SEEDS S2202	23.0	--	--	97.5	--	--	0.8	--	--
FUNK 1011X	23.5	--	--	120.4	--	--	0.0	--	--
GREAT LAKES GL-381	23.5	24	--	108.7	102	--	0.7	7	--
PAYCO SX431	23.5	23	22	103.4	92	94	0.0	10	11
PIONEER 3901	23.7	24	22	129.9	135	137	1.4	4	6
SUPER CROST 1621	23.8	24	--	135.6	122	--	10.4	11	--
*GREAT LAKES GL-422	24.0	24	23	139.6	134	135	1.4	9	11
*PAYCO SX620	24.0	24	--	136.6	134	--	1.4	6	--
KING K2204	24.1	25	--	119.2	114	--	1.4	5	--
LAND O'LAKES LOL-1096	24.1	--	--	132.7	--	--	2.8	--	--
*FUNK 2011X	24.4	--	--	137.0	--	--	0.0	--	--
*PIONEER 3737	24.7	--	--	150.3	--	--	1.4	--	--
*STAUFFER SEEDS S3306	24.8	25	23	137.1	135	134	0.0	6	8
FUNK G-4256	25.0	26	24	133.6	123	123	5.1	9	11
JACQUES EXP. 3091	25.0	--	--	123.2	--	--	2.2	--	--
PRIDE 2244	25.0	--	--	127.4	--	--	0.0	--	--
PIONEER 3744	25.1	26	--	129.8	137	--	1.4	7	--
PRIDE 3344	25.2	--	--	131.3	--	--	0.0	--	--
*JACQUES JX97	25.5	26	24	140.8	135	134	0.7	7	7
STAUFFER S4402	25.6	--	--	132.7	--	--	0.0	--	--
GOLDEN HARVEST H-2300	25.9	25	23	126.9	127	129	2.1	8	6
GREAT LAKES GL-522	26.2	27	25	134.8	142	145	2.1	6	5
PIONEER 3747	26.2	27	--	129.7	130	--	0.0	6	--
*SUPER CROST 1940	26.4	26	--	136.6	130	--	0.7	10	--
*GOLDEN HARVEST EX706	26.4	--	--	150.2	--	--	2.0	--	--
DEKALB-PFIZER DK505	26.6	--	--	128.7	--	--	0.7	--	--
*DEKALB-PFIZER DK484	26.7	27	--	140.5	140	--	1.4	5	--
KING K4422	26.9	--	--	129.6	--	--	0.7	--	--
DEKALB-PFIZER EXP348	27.7	--	--	129.5	--	--	2.3	--	--
O'S GOLD 2389	27.7	--	--	117.1	--	--	0.7	--	--
DEKALB-PFIZER T1000	28.5	28	27	130.7	137	138	0.0	7	9
AVERAGE	24.4	25	23	124.8	124	129	1.4	7	8
RANGE	20.5	23	22	90.7	82	94	0.0	4	5
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.5	28	27	150.3	142	145	10.4	11	11
LEAST SIGNIFICANT DIFFERENCE	1.7	1.1	0.9	11.6	9	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 16	May 5	May 7
HARVESTED	October 30	October 26	October 27
SOIL TYPE	Iosco sandy loam	Iosco sandy loam	Arenac & Tosco sandy loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,300	20,800	21,400
ROWS	30"	30"	30"
FERTILIZER	132-48-60+manure	134-76-70+manure	240-96-117+Zn
SOIL TEST: p	6.9	7.1	7.0
	292(very high)	233(very high)	472(very high)
k	555(very high)	606(very high)	576(very high)
IRRIGATION	4 inches	3 inches	1 time @ 1"

FARM COOPERATORS: Robert and August Ohse, Scottville (1984,1983), Mason County
Elmer Gowell, Rothbury (1982), Oceana County

COUNTY EXTENSION DIRECTOR: Bill Robb, Scottville (1984,1983); Ed Strong, Hart (1982)

TABLE 19

NORTHERN MICHIGAN
GRAND TRAVERSE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
PRIDE 1169	21.4	--	--	93.1	--	--	23.4	--	--
NORTHROP KING PX9055	21.8	22	--	69.6	65	--	44.4	31	--
GREAT LAKES GL-192	21.9	22	21	84.7	79	74	27.3	31	34
PRIDE 1125	22.0	--	--	70.0	--	--	28.4	--	--
KING K1163	22.8	23	--	83.1	91	--	16.8	22	--
LAND O'LAKES LOL-1096	22.8	--	--	77.0	--	--	13.1	--	--
DEKALB-PFIZER DK399	23.2	--	--	95.7	--	--	12.9	--	--
*DEKALB XL-8	23.2	25	23	114.7	97	91	3.7	6	12
KING K1184	23.2	--	--	95.4	--	--	9.5	--	--
PRIDE 1142	23.4	--	--	90.1	--	--	13.9	--	--
GREAT LAKES GL-381	23.5	--	--	104.1	--	--	11.3	--	--
STANTON 1085	23.5	24	--	87.1	76	--	18.7	26	--
NORTHROP KING PX9144	23.7	23	22	86.7	83	74	12.6	20	39
STAUFFER SEEDS S2101WX	23.8	--	--	93.5	--	--	12.1	--	--
*PIONEER 3949	23.8	--	--	123.0	--	--	5.6	--	--
FUNK G-4081	23.9	24	23	94.6	86	77	18.6	15	22
FUNK G-4085	23.9	25	24	74.5	74	71	21.3	25	29
STANTON 1080	24.1	24	--	78.6	72	--	16.7	26	--
STAUFFER SEEDS S2202	24.2	--	--	91.5	--	--	4.5	--	--
CARDINAL 2720	24.4	--	--	104.4	--	--	6.7	--	--
DEKALB-PFIZER EXP434	24.6	--	--	93.4	--	--	10.2	--	--
JACQUES 4100	24.7	--	--	86.0	--	--	6.2	--	--
PIONEER 3950	24.9	25	23	90.3	91	83	4.3	11	17
*CARDINAL 2820	25.0	--	--	110.5	--	--	4.3	--	--
FUNK 1011X	25.0	--	--	99.4	--	--	5.2	--	--
*GREAT LAKES 82351	25.0	--	--	120.9	--	--	3.7	--	--
*NORTHROP KING PX9151	25.1	--	--	112.3	--	--	6.3	--	--
O'S GOLD 2230	25.2	--	--	103.7	--	--	8.3	--	--
JACQUES JX47	25.3	25	24	101.0	83	73	12.3	17	19
*PIONEER 3803	25.3	--	--	120.4	--	--	11.5	--	--
KING K1173	25.3	25	--	81.6	97	--	9.5	12	--
*KING K2204	25.4	24	--	113.8	101	--	9.6	17	--
*GARNO S-90	25.8	--	--	116.2	--	--	13.8	--	--
*JACQUES EXP. 3091	25.9	--	--	106.9	--	--	6.2	--	--
KING K2203	26.2	26	--	100.0	104	--	2.8	9	--
*GREAT LAKES GL-422	26.3	26	25	114.5	113	101	9.5	16	19
ANDERSONS PSX-93	26.3	26	--	87.9	91	--	4.7	17	--
*STAUFFER SEEDS S3306	26.5	--	--	113.4	--	--	16.9	--	--
*PIONEER 3901	26.5	26	24	107.4	111	102	11.2	15	17
CARDINAL 3222	28.7	--	--	94.4	--	--	10.8	--	--
AVERAGE	24.6	24	23	96.2	89	83	12.3	19	23
RANGE	21.4	22	21	69.6	65	71	2.8	6	12
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.7	26	25	123.0	113	102	44.4	31	39
LEAST SIGNIFICANT DIFFERENCE	1.6	1.1	1.0	10.1	8	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 16	May 5	May 8
HARVESTED	October 31	October 26	October 28
SOIL TYPE	Coventry-Newaygo loam	Coventry-Newaygo loam	Coventry-Newaygo loam
PREVIOUS CROP	Corn	Corn	Corn
POPULATION	21,100	20,900	20,800
ROWS	30"	30"	30"
FERTILIZER	132-63-109	137-48-72	140-69-105
SOIL TEST: p	7.2	6.6	6.4
	289(very high)	294(very high)	536(very high)
k	456(very high)	303(high)	724(very high)

FARM COOPERATOR: George Svec, Buckley

COUNTY EXTENSION DIRECTOR: Steve Fouch, Traverse City

TABLE 20

NORTHERN MICHIGAN
MISSAUKEE COUNTY TRIAL- SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 4

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	1984	YR	YR	1984	YR	YR	1984	YR	YR	1984	YR	YR
FUNK G-4085	33.6	32.0	31.7	16.2	15.5	15.0	5.4	5.0	4.8			
FUNK G-4081	33.2	30.8	30.5	18.2	18.1	17.2	6.0	5.6	5.2			
STANTON 1080	33.2	32.0	32.1	13.9	14.4	13.9	4.6	4.6	4.4			
JACQUES EXP. 3091	32.0	--	--	21.5	--	--	6.9	--	--			
JACQUES EXP. 3085	31.9	--	--	13.3	--	--	4.2	--	--			
JACQUES 4100	31.6	--	--	17.5	--	--	5.3	--	--			
KING K1184	31.6	--	--	16.4	--	--	5.2	--	--			
O'S GOLD 2330	31.5	--	--	19.9	--	--	6.2	--	--			
PRIDE 1142	31.1	--	--	19.4	--	--	6.0	--	--			
STANTON 1085	31.1	30.5	--	16.7	16.4	--	5.2	5.0	--			
FUNK 1011X	30.9	--	--	15.3	--	--	4.7	--	--			
KING K1122	30.7	29.3	--	16.7	17.5	--	5.1	5.1	--			
O'S GOLD 2310	30.7	29.8	29.4	17.7	19.5	17.9	5.4	5.8	5.2			
DEKALB-PFIZER DK399	30.6	--	--	20.3	--	--	6.2	--	--			
NORTHROP KING PX9144	30.1	29.1	--	19.4	18.4	--	5.8	5.3	--			
NORTHROP KING PX9151	30.1	--	--	20.2	--	--	6.1	--	--			
DAIRYLAND DX1001	29.9	--	--	16.8	--	--	5.0	--	--			
KING K1163	29.3	--	--	14.6	--	--	4.3	--	--			
DAIRYLAND DX1096	29.3	--	--	16.9	--	--	5.0	--	--			
PRIDE 1169	29.1	--	--	18.5	--	--	5.4	--	--			
GOLDEN HARVEST EX706	29.1	--	--	22.6	--	--	6.5	--	--			
DAIRYLAND DX1086	28.5	--	--	16.0	--	--	4.5	--	--			
DAIRYLAND DX1088	28.4	28.7	--	18.9	18.5	--	5.4	5.3	--			
DAIRYLAND DX1097	28.1	--	--	19.0	--	--	5.2	--	--			
DAIRYLAND DX1094	28.1	27.0	--	19.9	19.2	--	5.7	5.2	--			
DEKALB-PFIZER EXP434	28.0	--	--	20.0	--	--	5.6	--	--			
LAND O'LAKES LOL-1096	28.0	--	--	17.9	--	--	5.0	--	--			
KING K1124	27.9	--	--	21.5	--	--	6.0	--	--			
DEKALB-PFIZER XL-8	27.8	28.3	27.3	24.5	22.4	19.6	6.8	6.3	5.4			
GARNO S-90	27.8	--	--	24.2	--	--	6.8	--	--			
GOLDEN HARVEST H-2300	27.6	26.5	25.4	24.1	22.8	21.1	6.6	6.0	5.3			
ANDERSONS PSX-93	27.3	27.1	--	19.7	20.0	--	5.3	5.4	--			
PRIDE 1125	27.0	--	--	22.2	--	--	6.0	--	--			
KING K1173	25.4	25.0	--	18.4	18.3	--	4.6	4.5	--			
PIONEER 3747	25.2	--	--	22.2	--	--	5.6	--	--			
PIONEER 3744	25.1	--	--	19.5	--	--	4.9	--	--			
AVERAGE	29.5	28.9	29.4	18.7	18.5	17.5	5.6	5.3	5.1			
RANGE	25.1	25.0	25.4	13.3	14.4	13.9	4.2	4.5	4.4			
	TO	TO	TO	TO	TO	TO	TO	TO	TO			
	33.6	32.0	32.1	24.5	22.8	21.1	6.9	6.3	5.4			
LEAST SIGNIFICANT DIFFERENCE	2.7	1.9	1.5	1.7	1.4	1.1	0.5	0.4	0.4			

	1984	1983	1982
PLANTED	May 11	May 17	May 7
HARVESTED	September 18	September 20	September 16
SOIL TYPE	Marlette sandy loam	Marlette sandy loam	Marlette sandy loam
PREVIOUS CROP	Alfalfa-grass sod	Corn	Corn
POPULATION	20,400	20,800	20,500
ROWS	30"	30"	30"
FERTILIZER	148-44-123	155-37-82	108-30-75
SOIL TEST: pH	6.6	6.2	5.8
p	96 (high)	92 (high)	113 (very high)
k	116 (low)	312 (very high)	267 (high)

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

COUNTY EXTENSION DIRECTOR: Carl Stephens, Lake City

TABLE 21

NORTHERN MICHIGAN
ALPENA COUNTY TRIAL-GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1984	YR	YR	1984	YR	YR	1984	YR	YR
P-A-G SX111	24.1	25	24	109.2	73	77	0.0	2	3
FUNK G-4083	24.6	--	--	89.1	--	--	1.6	--	--
PRIDE 1125	26.0	--	--	76.3	--	--	1.5	--	--
DAIRYLAND DX1075	26.0	--	--	104.3	--	--	0.7	--	--
KING K1114	26.3	--	--	78.6	--	--	5.9	--	--
GREAT LAKES GL-188	26.5	--	--	101.2	--	--	0.0	--	--
PIONEER 3949	26.5	--	--	109.0	--	--	0.0	--	--
KING K1113	27.0	28	--	100.1	66	--	1.6	2	--
GREAT LAKES GL-192	27.1	--	--	107.4	--	--	0.0	--	--
PRIDE 1169	27.1	--	--	106.1	--	--	2.9	--	--
DAIRYLAND DX1082	27.5	--	--	90.3	--	--	0.0	--	--
KING K1122	27.7	29	27	105.3	65	66	2.3	2	3
STAUFFER SEEDS 35	27.9	--	--	94.2	--	--	1.6	--	--
FUNK G-4085	27.9	28	29	95.8	63	65	1.5	2	2
LAND O'LAKES LOL-1096	27.9	--	--	95.3	--	--	0.8	--	--
*PRIDE 1142	28.0	--	--	117.9	--	--	1.4	--	--
KING K1124	28.4	--	--	109.7	--	--	1.4	--	--
PIONEER 3851	28.5	29	--	107.7	76	--	0.0	3	--
DAIRYLAND DX1088	28.6	--	--	101.1	--	--	2.3	--	--
STANTON 1080	28.7	29	--	79.6	53	--	3.0	3	--
*DEKALB-PFIZER EXP434	28.9	--	--	129.5	--	--	1.5	--	--
GREAT LAKES GL-381	29.2	--	--	103.3	--	--	0.0	--	--
KING K1163	29.2	--	--	109.3	--	--	1.5	--	--
DEKALB-PFIZER XL-8	29.9	30	30	108.2	74	82	0.9	2	1
FUNK G-4081	29.9	31	30	109.8	72	67	0.8	1	2
KING K1184	29.9	--	--	91.1	--	--	0.0	--	--
*STANTON 1085	30.0	30	--	116.5	71	--	2.1	3	--
DAIRYLAND DX1086	30.2	--	--	105.0	--	--	1.8	--	--
FUNK 1011X	30.4	--	--	108.5	--	--	0.0	--	--
*PIONEER 3930	30.4	29	--	119.0	82	--	0.8	1	--
ANDERSONS PSX-93	30.4	--	--	89.1	--	--	0.0	--	--
*GREAT LAKES GL-422	30.5	32	32	117.7	81	81	0.0	0	0
*CARDINAL 3222	30.9	--	--	119.3	--	--	0.8	--	--
FUNK G-4141A	30.9	--	--	113.9	--	--	0.7	--	--
*KING K2203	31.1	32	--	116.4	79	--	0.8	1	--
*GARNO S-90	31.5	32	33	116.2	81	82	1.6	2	2
*DAIRYLAND DX1096	31.5	--	--	121.5	--	--	0.0	--	--
*PIONEER 3803	31.9	--	--	115.6	--	--	0.7	--	--
KING K1173	31.9	31	--	109.1	73	--	0.8	1	--
*JACQUES JX47	32.3	--	--	120.6	--	--	0.7	--	--
P-A-G SX155	32.3	32	--	90.6	66	--	1.8	3	--
DEKALB-PFIZER DK399	32.4	--	--	97.3	--	--	0.0	--	--
*PIONEER 3906	32.4	33	32	119.1	82	83	0.0	0	0
*PIONEER 3901	32.6	33	32	123.3	83	87	0.0	1	1
GOLDEN HARVEST EX706	32.6	--	--	107.5	--	--	0.8	--	--
DAIRYLAND DX1097	32.9	--	--	100.7	--	--	1.6	--	--
*JACQUES EXP. 3091	33.9	--	--	123.2	--	--	0.7	--	--
*GOLDEN HARVEST H-2300	34.5	34	--	120.9	78	--	0.0	1	--
AVERAGE	29.6	30	30	105.4	73	77	1.0	2	2
RANGE	24.1	25	24	76.3	53	65	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	34.5	34	33	129.5	83	87	5.9	3	3
LEAST SIGNIFICANT DIFFERENCE	2.1	1.5	1.1	9.7	7	5	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 24	June 15	May 11
HARVESTED	November 1	October 27	October 29
SOIL TYPE			Onway fine sandy loam
PREVIOUS CROP	Beans	Pasture sod	Fallow
POPULATION	21,200	19,800	20,800
ROWS	30"	30"	30"
FERTILIZER	162-48-48	55-21-21	110-78-78
SOIL TEST: pH	6.6	7.4	6.0
p	107 (very high)	17 (very low)	57 (medium)
k	236 (high)	104 (low)	92 (low)

FARM COOPERATORS: Allen Schiellard, Alpena (1984);
Ken and Kim Sumerix, Alpena (1983); Steve Gonyea, Ossineke (1982).

COUNTY AGRICULTURAL AGENT: Bob Druzen, Alpena

TABLE 22

NORTHERN MICHIGAN
ALPENA COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 3

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE			GREEN WEIGHT			DRY WEIGHT		
	1984	2 YR	3 YR	1984	2 YR	3 YR	1984	2 YR	3 YR	1984	2 YR	3 YR
PRIDE 1125	35.4	--	--	14.4	--	--	5.1	--	--	--	--	--
GREAT LAKES GL-188	34.4	--	--	13.7	--	--	4.7	--	--	--	--	--
DAIRYLAND DX1075	34.2	--	--	14.0	--	--	4.7	--	--	--	--	--
FUNK G-4083	33.6	--	--	14.1	--	--	4.8	--	--	--	--	--
PIONEER 3851	32.3	30.3	--	15.8	12.1	--	5.1	3.7	--	--	--	--
P-A-G SX111	32.1	29.0	29.0	16.3	11.1	11.8	5.2	3.3	3.5	--	--	--
FUNK 1011X	31.3	--	--	14.3	--	--	4.5	--	--	--	--	--
KING K1113	31.1	29.2	--	15.2	11.0	--	4.8	3.3	--	--	--	--
STANTON 1080	31.0	28.2	--	13.9	10.2	--	4.3	3.0	--	--	--	--
STAUFFER SEEDS 35	30.9	--	--	14.1	--	--	4.4	--	--	--	--	--
KING K1114	30.9	--	--	12.5	--	--	3.9	--	--	--	--	--
DAIRYLAND DX1086	30.8	--	--	15.7	--	--	4.8	--	--	--	--	--
JACQUES JX47	30.2	--	--	16.1	--	--	4.9	--	--	--	--	--
PRIDE 1142	30.2	--	--	17.1	--	--	5.2	--	--	--	--	--
GREAT LAKES GL-192	30.1	--	--	15.9	--	--	4.8	--	--	--	--	--
KING K2203	30.1	27.7	--	18.6	13.2	--	5.6	3.8	--	--	--	--
DEKALB-PFIZER EXP434	30.0	--	--	18.2	--	--	5.4	--	--	--	--	--
LAND O'LAKES LOL-1096	30.0	--	--	15.5	--	--	4.6	--	--	--	--	--
PRIDE 1169	29.9	--	--	17.7	--	--	5.3	--	--	--	--	--
KING K1163	29.9	--	--	15.4	--	--	4.6	--	--	--	--	--
KING K1122	29.5	26.7	27.5	14.7	10.3	10.0	4.3	2.8	2.8	--	--	--
GREAT LAKES GL-381	29.4	--	--	17.7	--	--	5.2	--	--	--	--	--
PIONEER 3949	29.4	--	--	18.4	--	--	5.4	--	--	--	--	--
KING K1124	29.4	--	--	19.7	--	--	5.8	--	--	--	--	--
DAIRYLAND DX1082	29.4	--	--	15.6	--	--	4.6	--	--	--	--	--
KING K1173	29.3	27.0	--	14.3	10.4	--	4.2	2.9	--	--	--	--
DAIRYLAND DX1088	29.3	--	--	15.9	--	--	4.6	--	--	--	--	--
FUNK G-4141A	29.2	--	--	17.8	--	--	5.2	--	--	--	--	--
STANTON 1085	29.2	26.7	--	15.4	10.6	--	4.5	2.9	--	--	--	--
FUNK G-4085	29.1	27.0	26.9	15.9	11.1	13.2	4.6	3.1	3.6	--	--	--
JACQUES EXP. 3091	28.9	--	--	16.6	--	--	4.8	--	--	--	--	--
P-A-G SX155	28.9	26.9	--	15.9	11.8	--	4.6	3.2	--	--	--	--
DAIRYLAND DX1096	28.4	--	--	20.3	--	--	5.7	--	--	--	--	--
FUNK G-4081	28.3	26.8	26.5	18.1	13.0	13.1	5.1	3.5	3.5	--	--	--
PIONEER 3803	28.2	--	--	18.4	--	--	5.2	--	--	--	--	--
PIONEER 3906	28.2	25.7	25.8	18.4	13.3	14.1	5.2	3.5	3.7	--	--	--
DAIRYLAND DX1097	28.2	--	--	16.0	--	--	4.5	--	--	--	--	--
DEKALB-PFIZER DK399	28.0	--	--	17.2	--	--	4.8	--	--	--	--	--
GOLDEN HARVEST EX706	27.9	--	--	21.1	--	--	5.9	--	--	--	--	--
KING K1184	27.8	--	--	14.8	--	--	4.1	--	--	--	--	--
GARNO S-90	27.7	25.3	24.7	20.6	14.8	16.0	5.7	3.9	4.0	--	--	--
DEKALB-PFIZER XL-8	27.4	25.2	25.0	16.4	12.0	13.8	4.5	3.1	3.5	--	--	--
GREAT LAKES GL-422	27.4	25.2	24.8	20.4	14.5	16.1	5.6	3.8	4.0	--	--	--
GOLDEN HARVEST H-2300	27.1	25.7	--	20.2	14.0	--	5.5	3.7	--	--	--	--
PIONEER 3901	26.8	24.8	24.0	17.4	12.5	14.1	4.7	3.2	3.4	--	--	--
CARDINAL 3222	26.2	--	--	19.0	--	--	5.0	--	--	--	--	--
PIONEER 3930	25.7	24.6	--	19.8	13.4	--	5.1	3.4	--	--	--	--
ANDERSONS PSX-93	25.0	--	--	16.5	--	--	4.1	--	--	--	--	--
AVERAGE	29.4	26.8	26.0	16.7	12.2	13.6	4.9	3.3	3.6	--	--	--
RANGE	25.0	24.6	24.0	12.5	10.2	10.0	3.9	2.8	2.8	--	--	--
	35.4	30.3	29.0	21.1	14.8	16.1	5.9	3.9	4.0	--	--	--
LEAST SIGNIFICANT DIFFERENCE	2.9	2.0	1.5	1.6	1.2	0.9	0.5	0.5	0.4	--	--	--

1984

1983

1982

PLANTED May 24 June 15 May 11
HARVESTED September 18 September 20 September 16
SOIL TYPE Dry Beans Pasture sod Onway fine sandy loam
PREVIOUS CROP 20,900 20,800 21,300
POPULATION 30" 30" 30"
ROWS 162-48-48 55-21-21 110-78-78
FERTILIZER 6.6 7.4 6.0
SOIL TEST: pH 107 (very high) 17 (very low) 57 (medium)
p 236 (high) 104 (low) 92 (low)
k

FARM COOPERATOR: Allen Schiellert, Alpena (1984); Ken and Kim Sumerix, Alpena (1983); Steve Gonyea, Ossineke (1982).

COUNTY AGRICULTURAL AGENT: Bob Dluzen, Alpena

TABLE 23

NORTHERN MICHIGAN
MENOMINEE COUNTY TRIAL-GRAIN
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1984	2 YR	3 YR	1984	2 YR	3 YR	1984	2 YR	3 YR
FUNK G-4083	22.6	--	--	85.9	--	--	2.4	--	--
NORTHROP KING PX9055	23.6	--	--	106.1	--	--	15.7	--	--
JUNG 3000	24.7	--	--	100.0	--	--	5.8	--	--
FUNK G-4065	24.8	26	27	107.6	101	105	12.8	6	7
LAND O'LAKES LOL-1085A	25.4	--	--	92.7	--	--	6.3	--	--
FUNK G-4085	26.3	24	27	102.6	101	108	6.0	4	4
*NORTHROP KING PX9151	26.7	--	--	130.8	--	--	7.2	--	--
JUNG 2000	26.7	--	--	105.4	--	--	6.1	--	--
JUNG 2350	26.9	25	29	106.6	91	104	8.1	4	3
FUNK G-4081	27.0	25	29	95.2	95	108	6.8	6	4
DEKALB-PFIZER DK399	27.3	--	--	118.7	--	--	6.9	--	--
FUNK 1011X	27.5	--	--	111.7	--	--	7.5	--	--
*DEKALB-PFIZER XL-8	27.6	25	28	133.1	109	115	1.5	1	1
GREAT LAKES GL-381	28.3	--	--	118.2	--	--	3.9	--	--
*PIONEER 3930	28.6	28	--	146.0	124	--	2.9	1	--
PIONEER 3906	28.6	28	31	125.0	104	116	4.4	10	6
*FUNK G-4141A	29.2	27	30	136.3	105	117	16.5	9	6
*JACQUES JX47	29.3	28	--	141.3	110	--	4.4	3	--
*GARNO S-90	29.5	27	30	136.2	127	127	10.0	5	5
JACQUES 4100	30.0	--	--	100.4	--	--	6.7	--	--
GREAT LAKES GL-422	30.0	--	--	126.2	--	--	5.4	--	--
*FUNK 29097	30.2	28	--	136.4	128	--	13.9	7	--
LAND O'LAKES LOL-1093	30.2	--	--	90.4	--	--	3.3	--	--
JACQUES EXP. 3091	30.8	--	--	107.7	--	--	6.0	--	--
PIONEER 3901	30.8	30	33	126.4	108	122	3.0	3	2
LAND O'LAKES LOL-1096	30.8	--	--	127.8	--	--	5.5	--	--
*GREAT LAKES 82351	31.3	--	--	139.6	--	--	8.2	--	--
*JUNG 2525	31.4	--	--	139.0	--	--	1.6	--	--
AVERAGE	27.9	27	29	116.5	109	113	6.7	5	4
RANGE	22.6	24	27	85.9	91	104	1.5	1	1
	TO TO TO	TO TO TO	TO TO TO	TO TO TO	TO TO TO	TO TO TO	TO TO TO	TO TO TO	TO TO TO
	31.4	30	33	146.0	128	127	16.5	10	7
LEAST SIGNIFICANT DIFFERENCE	2.0	2.0	1.5	12.1	10	6	--	--	--

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984

	1984	1983	1982
PLANTED	May 5	May 9	May 7
HARVESTED	October 15	October 24	October 5
SOIL TYPE	Onway loam	Emmet sandy loam	Onway loam
PREVIOUS CROP	Beans	Corn	Beans
POPULATION	20,300	20,200	21,100
ROWS	30"	30"	30"
FERTILIZER	148-120-120	150-100-100	148-100-100
SOIL TEST: pH	7.2	7.1	6.9
p	160 (high)	56 (medium)	38 (low)
k	120 (low)	174 (medium)	168 (medium)

FARM COOPERATOR: Streffling Farms, Stephenson

COUNTY EXTENSION DIRECTOR: Richard Breyer, Stephenson

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

TABLE 24

NORTHERN MICHIGAN
MENOMINEE COUNTY TRIAL - SILAGE
ONE, TWO, THREE YEAR AVERAGES - 1984, 1983, 1982

ZONE 4

HYBRID (BRAND-VARIETY)	% DRY MATTER			TONS PER ACRE					
				GREEN WEIGHT			DRY WEIGHT		
	1984	2	3	1984	2	3	1984	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
LAND O'LAKES LOL-1085A	50.5	--	--	14.9	--	--	7.5	--	--
NORTHROP KING PX9055	48.6	--	--	13.3	--	--	6.5	--	--
JUNG 3000	47.4	--	--	15.2	--	--	7.2	--	--
JUNG 2350	47.0	41.8	40.4	17.1	15.5	17.0	8.0	6.5	6.8
FUNK G-4065	46.8	40.1	39.2	16.4	15.4	17.6	7.7	6.2	6.9
FUNK G-4081	46.3	41.8	39.2	18.5	17.5	17.7	8.5	7.3	6.8
JUNG 2000	45.7	--	--	18.4	--	--	8.4	--	--
JACQUES EXP. 3091	45.1	--	--	22.9	--	--	10.3	--	--
FUNK G-4083	44.4	--	--	16.8	--	--	7.4	--	--
FUNK 1011X	43.6	--	--	19.1	--	--	8.3	--	--
JACQUES JX47	43.6	36.4	--	20.2	17.0	--	8.8	6.5	--
GREAT LAKES GL-381	43.2	--	--	18.5	--	--	8.1	--	--
GARNO S-90	42.0	38.1	36.6	22.8	20.3	21.7	9.7	7.9	8.0
NORTHROP KING PX9151	42.0	--	--	23.8	--	--	10.0	--	--
LAND O'LAKES LOL-1093	41.8	--	--	18.2	--	--	7.7	--	--
FUNK 29097	41.6	37.1	--	26.3	23.8	--	10.9	8.9	--
JACQUES 4109	41.6	--	--	19.1	--	--	7.9	--	--
LAND O'LAKES LOL-1096	40.7	--	--	27.7	--	--	11.3	--	--
PIONEER 3930	40.5	36.7	--	20.8	17.6	--	8.4	6.5	--
PIONEER 3906	40.4	36.7	35.5	20.8	19.6	19.4	8.4	7.2	6.9
DEKALB-PFIZER DK399	39.9	--	--	22.1	--	--	8.8	--	--
GREAT LAKES GL-422	39.8	--	--	24.2	--	--	9.5	--	--
DEKALB-PFIZER XL-8	39.6	34.8	35.2	23.2	19.5	20.4	9.2	7.0	7.3
JUNG 2525	39.4	--	--	21.3	--	--	8.4	--	--
GREAT LAKES B2351	38.8	--	--	27.4	--	--	10.4	--	--
PIONEER 3901	38.8	35.9	34.3	23.9	22.2	23.3	9.3	8.0	8.0
FUNK G-4141A	38.6	35.5	35.2	23.4	20.1	20.8	9.0	7.2	7.4
FUNK G-4085	38.3	36.5	36.8	15.9	14.8	16.1	6.1	5.4	5.9
AVERAGE	43.0	37.6	36.9	20.4	18.6	19.3	8.6	7.1	7.1
RANGE	38.3	34.8	34.3	13.3	14.8	16.1	6.1	5.4	5.9
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	50.5	41.8	40.4	27.7	23.8	23.3	11.3	8.9	8.0
LEAST SIGNIFICANT DIFFERENCE	3.8	3.0	2.5	2.5	2.0	1.6	1.0	0.8	0.6

	1984	1983	1982
PLANTED	May 5	May 9	May 7
HARVESTED	September 18	September 7	September 16
SOIL TYPE	Onaway loam	Emmet sandy loam	Onaway loam
PREVIOUS CROP	Beans	Corn	Beans
POPULATION	20,100	20,800	19,900
ROWS	30"	30"	30"
FERTILIZER	148-120-120	150-100-100	148-100-100
SOIL TEST: pH	7.2	7.1	6.9
p	160 (high)	56 (medium)	38 (low)
k	120 (low)	174 (medium)	168 (medium)

FARM COOPERATOR: Streffing Farms, Stephenson

COUNTY EXTENSION DIRECTOR: Richard A. Breyer, Stephenson

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

TABLE 25

NORTHERN MICHIGAN
ALGER COUNTY TRIAL - GRAIN
ONE YEAR AVERAGES - 1984 (NO TRIAL 1983)

ZONE 4

HYBRID (BRAND-VARIETY)	% MOISTURE	BUSHELS PER ACRE	
		GREEN WEIGHT	DRY WEIGHT
PRIDE 1102	32.5	58.5	
FUNK G-4083	34.7	62.6	
PIONEER 3996	35.8	50.7	
PICKSEED 2599	35.9	56.2	
*FUNK G-4065	38.2	78.3	
KING K1113	38.2	70.5	
LAND O'LAKES LOL-M3073	40.5	69.1	
*KING K1124	42.1	88.7	
FUNK 0008X	42.8	65.2	
*ADOURN 833	43.9	86.3	
*LAND O'LAKES LOL-1096	44.9	77.9	
CARHERTS BLUETOP CX80A	45.3	58.6	
*FUNK G-4081	45.5	77.2	
KING K1114	45.5	61.3	
CENTURY W23-43	46.4	48.2	
FUNK G-4085	46.9	60.0	
AVERAGE	41.2	66.8	
RANGE	32.5	48.2	
	to	to	
	46.9	88.7	
LEAST SIGNIFICANT DIFFERENCE	3.4	8.1	
*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1984.			
PLANTED	1984		
HARVESTED	May 21		
SOIL TYPE	Oct. 29		
PREVIOUS CROP	Trenary loam		
POPULATION	Beans		
ROWS	17,400		
FERTILIZER	36"		
SOIL TEST: pH	136-75-75		
p	7.3		
F	175 (high)		
K	75 (low)		

FARM COOPERATOR: Michigan State University, Chatham

COUNTY EXTENSION DIRECTOR: Jack Middleton, Munising

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

TABLE 26

NORTHERN MICHIGAN
ALGER COUNTY TRIAL - SILAGE
ONE YEAR AVERAGES - 1984 (NO TRIALS 1983)

ZONE 4

HYBRID (BRAND-VARIETY)	% DRY MATTER	TONS PER ACRE	
		GREEN WEIGHT	DRY WEIGHT
PIONEER 3996	41.9	7.3	3.1
KING K1114	41.5	10.8	4.5
CARHERTS BLUETOP CX80A	40.4	12.7	5.1
LAND O'LAKES LOL-1096	40.2	18.2	7.2
FUNK G-4083	38.9	15.4	6.0
PRIDE 1102	38.4	8.0	3.1
FUNK G-4065	37.3	13.7	5.1
PICKSEED 2599	36.8	12.6	4.7
LAND O'LAKES LOL-M3073	36.6	12.5	4.5
ADOURN 833	35.1	15.7	5.5
FUNK G-4081	34.3	17.7	6.1
KING K1113	33.8	11.6	3.9
FUNK 0008X	33.4	11.2	3.7
KING K1124	33.2	16.4	5.3
CENTURY W23-43	33.0	7.7	2.5
FUNK G-4085	30.9	14.2	4.5
AVERAGE	36.6	12.9	4.7
RANGE	30.9	7.3	2.5
	to	to	to
	41.9	18.2	7.2
LEAST SIGNIFICANT DIFFERENCE	3.2	2.1	0.9

PLANTED	1984
HARVESTED	May 21
SOIL TYPE	Oct. 1
PREVIOUS CROP	Trenary loam
POPULATION	Beans
ROWS	16,600
FERTILIZER	36"
SOIL TEST: pH	136-75-75
p	7.3
F	175 (high)
K	75 (low)

FARM COOPERATOR: Michigan State University, Chatham

COUNTY EXTENSION DIRECTOR: Jack Middleton, Munising

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

TABLE 27

Index for 390 hybrids entered as 2,115 entries in the 1984 Michigan Corn Performance Trials. Numbers within parentheses refer to table numbers in which the hybrid appears. (2X) indicates a single-cross hybrid, (3X) indicates a three-way hybrid, (4X) indicates a double-cross hybrid, (MSX) indicates a modified single cross and (Sp.) indicates a special-cross hybrid. Company names used in association with hybrid numbers refer to the brand and the numbers are the variety (hybrid) designation.

The Andersons , Maumee, OH 43537	Andersons PSX-93 (2X) (4,6,7,8,9,10,11,12,13,14,15,16,17,18,20,21,22,23)	Andersons PSX-108 (2X) (5)	Andersons PSX-110 (2X) (1,2,4,5,7,9,10)	Andersons Silo Filler (4X) (9,10,11,12,14,15)
Asgrow Seed Co. , Kalamazoo, MI 49001	Asgrow RX420 (2X) (11,12,14,15)	Asgrow RX532 (2X) (4,5,6,9,10,11,12)	Asgrow RX777 (2X) (1,3)	
Bayless Hybrids, Inc. , Bluffton, IN 46714	Bayless SX434H (2X) (2)			
Beck's Hybrids , Atlanta, IA 46986	Beck's 40XT (2X) (2,6)	Beck's 60X (2X) (1,4,5,6)	Beck's 63X (2X) (2,3,4,5)	Beck's 65X (2X) (3,4,5)
Bo-Jac Hybrid Corn Co. , Mt. Pulaski, IL	Bo-Jac 14 (2X) (2)	Bo-Jac 601 (2X) (2,4,5)	Bo-Jac 603 (2X) (1,3)	Bo-Jac 3910 (2X) (1,2,3,4,5)
	Bo-Jac 381 (2X) (1,2,4,5)	Bo-Jac 432 (2X) (3)	Bo-Jac 452 (2X) (3,5)	Bo-Jac 6071 (2X) (1,2,3,4,5)
Callahan Seeds , Westfield, IN 46074	Callahan 728 (2X) (9,10,11,12)	Callahan X17985 (2X) (1,5)	Callahan X18088 (2X) (11,12)	Callahan X18176 (2X) (9,10,11,12)
	Callahan 738 (2X) (11,12)	Callahan X18457 (2X) (1,5,9,10)		
Cardinal Seeds , Chatham, Ontario, Canada	Cardinal SX112 (2X) (11,12,13,16)	N7M 5K3	Cardinal 3222 (2X) (11,12,13,14,15,16,19,21,22)	Cardinal 3422 (2X) (11,12,13,14,15)
	Cardinal 2720 (2X) (19)			
Cargill Seeds , Minneapolis, MN 55440	Cargill 818 (2X) (11,12,14,15)	Cargill 867 (2X) (4,9,10)	Cargill 874 (2X) (2,3,5)	Cargill 889 (2X) (1,2,3,4,5)
	Cargill 822 (2X) (11,12,14,15)	Cargill 891 (2X) (3,5)	Cargill 921 (2X) (1,2,3,4,5)	Cargill 937 (2X) (5)
	Cargill 829 (2X) (9,10,11,12,13,14,15)			
	Cargill 834 (2X) (14,15)			
	Cargill 861 (2X) (1,2,3,4,5,9,10,13,14,15)			
Carhert's Blue Seeds , Galesville, WI 54630	Carhert's Bluetop CX80A (25,26)			
Century Seed Co. , Green Bay, WI 54303	Century W23-43 (25,26)			
Crow's Hybrid Corn Co. , Milford, IL 60953	Crow's 181 (2X) (2,4,7)	Crow's 488 (2X) (1,2,4)	Crow's 525 (2X) (1,2,4)	Crow's 666 (2X) (1,3,5)
	Crow's 199 (2X) (1,2,4,5)			
	Crow's 431 (2X) (1,2,4,5)			
	Crow's 444 (2X) (1,2,4,5)			
Custom Farm Seed , Momence, IL 60954	CFS 1450 (2X) (8)	CFS W3610 (2X) (8)	CFS W7651 (2X) (3,4,5)	CFS W95011 (2X) (7)
	CFS 3601 (2X) (11,12)			CFS EW95013 (2X) (5,7,11,12)
	CFS 4003 (2X) (8)			
	CFS 5801 (2X) (3,4,5,7)			
Dairyland Seed Co. , West Bend, WI 53095	Dairyland DX1001 (2X) (6,7,9,10,11,12,13,14,15,16,17,20)	Dairyland DX1086 (2X) (20,21,22)	Dairyland DX1088 (2X) (8,20,21,22)	Dairyland DX1091 (2X) (8)
	Dairyland DX1003 (2X) (7,8,9,10,11,12,13,14,15,16,17)	Dairyland DX1093 (2X) (8)	Dairyland DX1094 (2X) (8,16,20)	Dairyland DX1096 (2X) (7,8,11,12,13,14,15,16,17,20,21,22)
	Dairyland DX1006 (2X) (5,6,7,8,9,10,11,12,13,14,15)	Dairyland DX1097 (2X) (7,11,12,13,14,15,16,17,20,21,22)	Dairyland DX1105 (2X) (2,4,7,8,11,12,13)	Dairyland DX1107 (2X) (1,2,3,4,5,6,7,9,10,13,14,15)
	Dairyland DX1007 (2X) (8)			
	Dairyland DX1008 (2X) (1,3,5,7,9,10)			
	Dairyland DX1012 (2X) (1,2,3,4,5)			
	Dairyland DX1017 (2X) (1,2,3,4)			
	Dairyland DX1075 (2X) (21,22)			
	Dairyland DX1082 (2X) (21,22)			
DeKalb-Pfizer Genetics , DeKalb, IL 60115	DeKalb-Pfizer XL-8 (2X) (19,20,21,22,23,24)	DeKalb-Pfizer DK484 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)	DeKalb-Pfizer DK505 (2X) (1,2,4,5,6,7,13,14,15,17,18)	DeKalb-Pfizer DK556 (2X) (1,2,5)
	DeKalb-Pfizer XL-25A (2X) (6,7,8,9,10,11,12,13,14,15,16)	DeKalb-Pfizer DK587 (2X) (1,2,3,4,5)	DeKalb-Pfizer T950 (2X) (2,4,6,7,8,9,10,11,12,13,14,15,17)	DeKalb-Pfizer T1000 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18)
	DeKalb-Pfizer XL-32A (2X) (8)		DeKalb-Pfizer T1100 (2X) (1,2,3,4,5,6,8)	
	DeKalb-Pfizer XL-55A (2X) (3,4,5,8)			
	DeKalb-Pfizer EXP348 (2X) (1,2,3,4,7,8,9,10,13,14,15,17,18)			
	DeKalb-Pfizer DK399 (3X) (19,20,21,22,23,24)			
	DeKalb-Pfizer EXP434 (2X) (19,20,21,22)			
	DeKalb-Pfizer DK447 (2X) (5,6,7,13,14,15,17)			
Farmers Corn & Chemical Co. , Jerome, MI 49249	FCC224A (2X) (1,2,3,4,5,9,10,13)	FCC251 (2X) (1,2,3,4,5,9,10,13)		

TABLE 27 (continued)

Funk Seeds International , Bloomington, IL	Funk 0008X (MSX) (25,26)	61701	Funk G-4085 (2X) (19,20,21,22,23,24,25,26)
	Funk 1011X (2X) (14,15,16,17,18,19,20,21,22,23,24)	Funk G-4141A (MSX) (16,21,22,23,24)	Funk G-4256 (3X) (6,7,9,10,11,12,14,15,16,17,18)
	Funk 2008X (MSX) (8)	Funk G-4323 (MSX) (1,2,3,4,5,7,8,9,10,11,12,13)	Funk G-4342 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17)
	Funk 2011X (2X) (6,7,9,10,11,12,14,15,16,17,18)	Funk G-4435 (MSX) (1,5)	Funk G-4438 (2X) (1,2,3,4,5,9,10)
	Funk 3012X (2X) (9,10,11,12,14,15,17)	Funk G-4514 (2X) (1,5)	Funk 29097 (2X) (8)
	Funk 3026X (2X) (2,3,4,5,7,9,10,11,12,13,14,15,17)		
	Funk 4029X (2X) (1,2,5)		
	Funk G-4065 (2X) (23,24,25,26)		
	Funk G-4081 (MSX) (19,20,21,22,23,24,25,26)		
	Funk G-4083 (2X) (21,22,23,24,25,26)		
Edward J. Funk & Sons, Inc. , Kentland, IN	Super Crost 1621 (2X) (17,18)	47951	Super Crost 2989 (2X) (7,9,10,11,12)
	Super Crost 1940 (2X) (11,12,14,15,16,17,18)		Super Crost 3030 (2X) (5,9,10)
	Super Crost 2288 (2X) (9,10,11,12,16,17)		Super Crost 4304 (2X) (1,3,4,5,9,10,13)
	Super Crost 2396 (2X) (8)		Super Crost 4337 (2X) (1,3,4)
	Super Crost 2410 (2X) (7,8,9,10,11,12,14,15,16)		Super Crost 5438 (2X) (1,2,3,4,13,14,15)
Garno Seed Co. , Palmyra, MI 49268	Garno S-50 (2X) (7,11,12,16,19,20,21,22,23,24)	Garno S-100X (2X) (9,10,11,12,14,15)	Garno S-102 (2X) (1,2,3,4,5)
	Garno S-92X (2X) (17)	Garno S-102D (2X) (5)	
	Garno S-96X (2X) (13,14,15)		
	Garno S-100 (2X) (8)		
Great Lakes Hybrids, Inc. , Ovid, MI 48866	Great Lakes GL-188 (MSX) (21,22)	Great Lakes GL-516 (2X) (7,11,12,13,14,15,17)	Great Lakes GL-522 (2X) (8,17,18)
	Great Lakes GL-192 (MSX) (19,21,22)	Great Lakes GL-547 (2X) (1,2,3,5,7,8,9,10,11,12,13,14,15)	Great Lakes GL-552 (2X) (8)
	Great Lakes GL-381 (2X) (15,18,19,21,22,23,24)	Great Lakes GL-579 (2X) (1,3,4,5,7,9,10,11,12,13,14,15)	Great Lakes GL-608 (2X) (4,5,14,15)
	Great Lakes GL-422 (2X) (7,9,10,11,12,13,14,15,16,17,18,19,21,22,23,24)	Great Lakes 5922 (2X) (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15)	Great Lakes 8231A (2X) (8)
	Great Lakes GL-466 (2X) (7,8,9,10,11,12,16,17)	Great Lakes 82351 (2X) (19,23,24)	Great Lakes 83452 (2X) (1,3,5,9,10,14,15)
	Great Lakes GL-487 (2X) (2,6,7,8,9,10,11,12,13,14,15,16,17)		
	Great Lakes GL-490 (2X) (7,9,10,11,12,13,14,15)		
	Great Lakes GL-510 (2X) (7,9,10,11,12,13,14,15,17)		
Gries Seed Farms, Inc. , Fremont, OH 43420	Gries X490 (2X) (1,2,4,6,11,12,13,14,15)		
Hughes Hybrid, Inc. , Woodstock, IL 60098	Hughes M2 (MSX) (9,10)	Hughes 5404 (2X) (9,10)	
Jacques Seed Co. , Prescott, WI. 54021	Jacques JX47 (2X) (19,21,22,23,24)	Jacques Exp.3091 (2X) (11,12,14,15,16,17,18,19,20,21,22,23,24)	Jacques 4100 (2X) (19,20,23,24)
	Jacques JX77 (2X) (14,15,16)	Jacques 5400 (2X) (1,2,3,7,9,10,13,17)	Jacques 7700 (2X) (1,2,3,4,5,8,9,10)
	Jacques JX97 (2X) (11,12,13,16,18)	Jacques 7900 (2X) (1,2,3,4,5,8,9,10)	Jacques 7900 (2X) (4,5)
	Jacques JX151 (2X) (8)		
	Jacques JX167 (2X) (7)		
	Jacques Exp.3085 (2X) (20)		
Jung Farms, Inc. , Randolph, WI 53957	Jung 2000 (2X) (23,24)	Jung 2525 (2X) (23,24)	Jung 3000 (2X) (23,24)
	Jung 2350 (2X) (23,24)		
Kaltenberg Seed Farms, Inc. , Waunakee, WI	Kaltenberg K51 (2X) (13)	53597	Kaltenberg K64 (2X) (13)
King Grain Ltd. , Chatham, Ontario, Canada	King K1113 (Sp.) (21,22,25,26)	N7M 5L6	King K2204 (2X) (11,12,13,14,15,16,17,18,19)
	King K1114 (Sp.) (21,22,25,26)		King K4422 (2X) (4,6,7,8,9,10,11,12,13,14,15,16,17,18)
	King K1122 (2X) (20,21,22)		King K4423 (2X) (6,8,11,12,14,15,16)
	King K1124 (2X) (20,21,22,25,26)		King K4464 (2X) (1,2,3,4,5,6,7,9,10,13,14,15)
	King K1163 (2X) (18,19,20,21,22)		King K4474 (2X) (1,2,3,4,5,6,7,9,10,14,15)
	King K1173 (2X) (19,20,21,22)		King 5511 (2X) (2,3,7,9,10,11,12)
	King K1184 (2X) (18,19,20,21,22)		
	King K2203 (2X) (11,12,13,16,17,18,19,21,22)		
Land O'Lakes, Inc. , Minneapolis, MN 55440	Land O'Lakes LOL-1061 (2X) (1,2,3,4,5,6,7,9,10)	Land O'Lakes LOL-1093 (2X) (24,25)	Land O'Lakes LOL-1096 (2X) (11,12,13,14,15,16,17,18)
	Land O'Lakes LOL-1071 (2X) (1,2,3,4,5,6,7,9,10)	Land O'Lakes LOL-M3073 (3X) (25,26)	
	Land O'Lakes LOL-1085A (2X) (19,20,21,22,23,24,25,26)		
Leader Seeds, Inc. , Celina, OH 45822	Leader SX490 (2X) (1,2,3)	Leader SX555 (2X) (2)	Leader SX575 (2X) (1,2,3,5)
	Leader LSX525 (2X) (1,2,3)	Leader 3550A (3X) (9,10)	
	Leader LSX530 (2X) (1,2,3,9,10)		
Lowie Seed Co. , Kankakee, IL 60901	Lowie 17 (2X) (9,10,13,14,15)	Lowie 217 (2X) (13,14,15)	Lowie 237 (2X) (1,2,3,4,13,14,15)
	Lowie 117 (2X) (1,2,3,4,13,14,15)		
	Lowie 137 (2X) (2,3,4,6)		

TABLE 27 (continued)

Lynds Seeds, Marshalltown, IA 50158

Lynds LX4075 (2X) (6)
Lynds LX4225 (2X) (5)

Maisadour, 40001 Mont-de-Marson Cedex, France
Adour 833 (25,26)MFI Seeds, Mendon, MI 49072

MFI-1776 (2X) (2,4,13,14,15,17)
MFI-1812 (2X) (1,2,3,4,5,13,14,
15,17)
MFI-1833 (2X) (1,2,3,4)
MFI-1855 (2X) (1,3,5)

Michigan Hybrid Seed Co., Mason, MI 48854

Wolverine W126 (2X) (8)
Wolverine W155 (2X) (8)
Wolverine W166 (2X) (7,13,14,15)
Wolverine W168 (2X) (8,13)
Wolverine W174A (2X) (2,9,10)
Wolverine W190 (2X) (14,15)

National Ag, Byron Center, MI 49315

National NA-1006 (2X) (1,4,7,9,10)

Nickerson American Plant Breeders Inc., Mission, Kansas 66201

AgriPro HP-266 (2X) (5,6,9,10)
AgriPro HP-277 (2X) (2,3,4,5,6,9,10)
AgriPro HP-360 (2X) (2,3,4,5,6,9,10)
AgriPro HP-401 (2X) (2,3,4,5,9,10)

North Coast Seed Co., Milan, OH 44846

North Coast NC2050 (2X) (1,2)
North Coast NC2100 (2X) (1,2)
North Coast NC2205 (2X) (1,2)
North Coast NC2310 (2X) (1,2)

Northrup King Co., Minneapolis, MN 55440

Northrup King PX39 (2X) (2,3,4)
Northrup King PX9055 (2X) (19,23,24)
Northrup King PX9144 (2X) (19,20)
Northrup King PX9151 (2X) (19,20,
23,24,25,26)
Northrup King PX9242 (2X) (11,12,
13,14,15)
Northrup King PX9290 (2X) (11,12,
13,14,15)

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

O's Gold 1170A (2X) (4,7,9,10,13)
O's Gold 2230 (2X) (19)
O's Gold 2310 (2X) (20)
O's Gold 2330 (2X) (11,12,20)
O's Gold 2389 (2X) (11,12,14,15,18)

P-A-G Seeds, Minneapolis, MN 55440

P-A-G SX111 (2X) (11,12,21,22)
P-A-G SX155 (2X) (11,12,21,22)
P-A-G SX157 (2X) (11,12)
P-A-G SX175 (2X) (11,12,13,14,15,17)
P-A-G SX179 (2X) (8,11,12,14,15)
P-A-G SX180 (2X) (6,11,12,13,14,15,
17)

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

Parker 31 (2X) (2,3)
Parker 32 (2X) (3,5)

Payco Seeds, Inc., Dassel, MN 55325

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

Paymaster Seeds, Minneapolis, MN 55440

Paymaster 1990 (2X) (14,15)
Paymaster 2890 (2X) (4,9,10)

Pickseed, Richmond Hill, Ontario, Canada L4C 4X9

Pickseed 2599 (25,26)

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

Pioneer 3540 (2X) (1,2,3,4,5,6)
Pioneer 3572 (2X) (2,4,5)
Pioneer 3707 (2X) (1,2,3,4,5,6,7,
9,10)
Pioneer 3737 (2X) (1,2,3,4,5,6,7,
9,10,11,12,13,14,15,16,17,18)
Pioneer 3744 (2X) (2,3,6,7,8,9,10,
11,12,13,14,15,16,17,18,20)
Pioneer 3747 (2X) (1,4,9,10,11,12,
13,14,15,16,17,18,20)

Prairie Stream Hybrids, Frankfort, IN 46041

Prairie Stream SX350 (2X) (5)

Pro-Seed, Inc., Blissfield, MI 49228

Pro-Seed Hyland LG18 (2X) (1,11,12,
13,16,17)
Pro-Seed Hyland LG22 (2X) (1,3,9,
10,13,17)
Pro-Seed Hyland HL2414 (2X) (9,10,
11,12,16,17)
Pro-Seed Hyland HL2444 (2X) (9,10,
11,12,13,17)

Lynds LX4315 (2X) (3)

MFI-1900 (2X) (1,2,3,4)
MFI-1976 (2X) (1,2,3,5)
MFI-1984 (2X) (2,3,4)
MFI-2000 (2X) (1,2,5)

Wolverine X195 (2X) (13,14,15)
Wolverine X199 (2X) (7,13,14,15)
Wolverine X1100 (2X) (13)
Wolverine X1101 (2X) (13)
Wolverine X1102 (2X) (7,13,14,15)
Wolverine X1110 (2X) (2,9,10)

National NA-1098 (2X) (11,12,13)

AgriPro HP-470 (2X) (2,3,4,5)
AgriPro AP-391 (2X) (2,3,4,5,6,9,10)
AgriPro AP-510 (2X) (2,3,4,5)

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

Northrup King PX9353 (2X) (7,9,10,11,12,
13,14,15)
Northrup King PX9405 (2X) (2,3,4,7,9,10)
Northrup King PX9410 (2X) (2,3,4,7,9,10)
Northrup King PX9455 (2X) (2,3,4)
Northrup King PX 9902 (3X) (17)

O's Gold 2450 (2X) (3)
O's Gold 2545 (2X) (1,2,4,5)
O's Gold 2570 (2X) (9,10)
O's Gold 6880 (2X) (7,13,16)
O's Gold 6882 (2X) (1,2,3,4,5,9,10)

P-A-G SX193 (2X) (4,6,7,8,13,17)
P-A-G SX195 (2X) (8,9,10,13,17)
P-A-G SX239 (2X) (2,3,4,5,7,8,9,10,13,
14,15)
P-A-G SX267 (2X) (2,3,4,5,9,10)
P-A-G SX275 (2X) (3,5)

Parker 60A (2X) (5)
Parker 190 (MSX) (6)

Payco SX700 (2X) (1,3,4,5,6,13,14,15)
Payco SX750 (2X) (13,14,15)
Payco SX822 (2X) (3,4,5,6)
Payco SX860 (2X) (1,2,3,4,5,7,8)
Payco SX872 (2X) (2,3,4,5,6,7,8,17)
Payco SX900 (2X) (1,2,3,4,5)

Paymaster 2990 (2X) (4,9,10)
Paymaster 4660 (2X) (1,3)
Paymaster 4790 (2X) (3,5)

LAC 4X9

Pioneer 3803 (2X) (19,21,22)
Pioneer 3851 (Sp.) (21,22)
Pioneer 3901 (2X) (11,12,14,15,16,17,18,
19,21,22,23,24,25)
Pioneer 3906 (2X) (21,22,23,24,25)
Pioneer 3930 (2X) (21,22,23,24,25)
Pioneer 3949 (2X) (19,21,22)
Pioneer 3950 (Sp.) (19)
Pioneer 3996 (3X) (25,26)

Prairie Stream SX578 (2X) (5)

Pro-Seed Hyland HL2454 (2X) (1,2,9,10,
13,17)
Pro-Seed Hyland HL2455 (2X) (1,3,11,12,
13,16)
Pro-Seed Hyland HL2730 (2X) (1,2,3,9,10)
Pro-Seed Hyland HL2803 (2X) (1,2,3,5)

TABLE 27 (continued)

Renk Seed Co., Sun Prairie, WI 53590

Renk RK17 (2X) (6,11,12)
Renk RK19 (2X) (6,9,10,11,12,13)
Renk RK25 (2X) (9,10,11,12,13)
Renk RK60 (2X) (1,3,5,9,10,11,12,13)

Rupp Seeds, Inc., Wauseon, OH 43567

Rupp XR1520 (2X) (1,2,3,4,5,6,7,9,
10)
Rupp XR1591 (2X) (1,2,3,4,5,6,7,9,
10)
Rupp XR1601 (2X) (1,2,3,4,5,6,7,9,
10)

Select Seed Hybrids, Camden, IN 46917

Select 2440 (2X) (4,8,9,10)
Select 2600 (2X) (8,13)
Select 3100 (2X) (8,9,10,13)
Select 3222-S (2X) (1)
Select 3300 (2X) (3,4,9,10,13)
Select 3720 (2X) (1,3,4,5,9,10,13)
Select 4144 (2X) (1,5)

Sohigro Service Co., Bad Axe, MI 48143

Sohigro S-25 (2X) (14,15)
Sohigro S-29 (2X) (14,15)

Sommer Bros. Seed Co., Pekin, IL 61554

Golden Harvest EX638 (2X) (6,17)
Golden Harvest EX706 (6,11,12,13,
14,15,18,20,21,22)
Golden Harvest H2300 (2X) (6,11,12,
13,14,15,18,20,21,22)
Golden Harvest H2424 (2X) (5,9,10,
13)
Golden Harvest H2440 (2X) (6)
Golden Harvest H-2448 (2X) (1,2,3,
4,5,9,10,17)

Southern Michigan Seed, Inc., Decatur, MI 49045

Golden Grain 252 (4X) (3,6)
Golden Grain 460 (4X) (7)
Golden Grain 560 (4X) (2,7)

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

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

Renk RK64 (2X) (1,3,5,9,10,11,12,13)
Renk RK66 (2X) (1,3,9,10,11,12,13)
Renk RK75 (2X) (1,3,5)
Renk RK76 (2X) (1,3,5,9,10)

Rupp XR1625 (2X) (1,2,3,4,5,6,7,9,
10)
Rupp XR1639 (2X) (1,2,3,4,5,6,7,8,9,10)
Rupp XR1690 (2X) (1,2,3,4,5,6,7,9,10)
Rupp XR1707 (2X) (1,2,3,4,5,6,7,9,10)
Rupp XR1780 (2X) (1,2,3,4,5,6,7,9,10)

Select 4650 (2X) (4)
Select 4700 (2X) (3,5)
Select 4800 (2X) (1,3,5)
Select 5040 (2X) (3,4)
Select 5177 (2X) (1)
Select 5188 (2X) (5)

Sohigro S-35 (2X) (14,15)
Sohigro S-39 (2X) (14,15)

Golden Harvest H-2465 (2X) (4)
Golden Harvest H-2480 (2X) (1,2,3,7,13,
17)
Golden Harvest H-2500 (2X) (1,9,10)
Golden Harvest H-2535 (2X) (1,3)
Golden Harvest H-2572 (2X) (2,3,4,7,9,
10,11,12,14,15)

Golden Grain 2570 (2X) (3,4,6)
Golden Grain 2775 (2X) (2,4)

Stanton 1080 (4X) (19,20,21,22)
Stanton 1085 (4X) (19,20,21,22)
Stanton SX1090 (2X) (8)
Stanton SX1095 (2X) (8)
Stanton SX10100 (2X) (8)

Stauffer Seeds, Inc., Madison, WI 53711

Stauffer Seeds S35 (4X) (21,22)
Stauffer Seeds 606WX (2X) (9,10,14,
15)
Stauffer Seeds S2101WX (2X) (19)
Stauffer Seeds S2202 (2X) (11,12,14,
15,16,17,18,19)
Stauffer Seeds S3306 (2X) (7,9,10,
11,12,13,14,15,16,17,18,19)
Stauffer Seeds S3406WX (2X) (11,12,
13,14,15,16)
Stauffer Seeds S4402 (2X) (4,7,9,
10,11,12,14,15,17,18)

Stauffer Seeds S4880 (2X) (7,13)
Stauffer Seeds S5260 (2X) (1,3)
Stauffer Seeds S5340 (2X) (1,2,3,4,5,
7,9,10,11,12,13,14,15)
Stauffer Seeds S5560 (2X) (1,2,3,4,5,
7,9,10,11,12,13,14,15)
Stauffer Seeds S5722WX (2X) (1,4,5)
Stauffer Seeds S5750 (2X) (1,3,4,5,9,10)
Stauffer Seeds S6389 (2X) (1,3,4)
Stauffer Seeds S6595 (2X) (5)
Stauffer Seeds S6707 (2X) (1,4,5)
Stauffer Seeds S7759 (2X) (1,2)

Voris Seeds, Inc., Windfall, IN 46076

Voris V2451 (2X) (4,5,9,10,11,12,13)
Voriss V2471 (2X) (1,4,5,6,9,10,11,
12)

Voris V2472 (2X) (13)
Voriss V2491 (2X) (1,5)

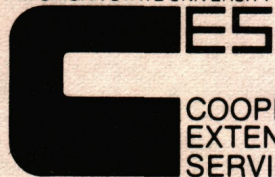
Whitney-Dickinson Seeds, Inc., Buffalo, NY 14240

Pride 1102 (25,26)
Pride 1125 (2X) (19,20,21,22)
Pride 1142 (2X) (19,20,21,22)
Pride 1169 (2X) (13,16,18,19,20,
21,22)
Pride 1194 (2X) (13,16,18)

Pride 2244 (2X) (13,16,18)
Pride 3344 (2X) (7,13,16,18)
Pride 4422 (2X) (7,9,10,11,12,14,15,17)
Pride 5523 (2X) (2,3,4)
Pride 6692 (2X) (2,3,4)

Notes

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