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Michigan Corn Production Hybrids Compared
Michigan State University Extension Service
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1991



Michigan Corn Production

HYBRIDS COMPARED

MICHIGAN CORN PRODUCTION

HYBRIDS COMPARED 1991

By: Keith Dysinger, Mervin Chamberlain,
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Hybrid corn trials are conducted each year by the Department of Crop and Soil Sciences, Michigan Agricultural Experiment Station, in cooperation with the Cooperative Extension Service, seed corn companies, and farmers.

Many hybrids are offered for sale in Michigan. They differ in yield capacity, maturity, lodging resistance, and other characteristics. Choosing the best corn hybrids is an important part of profitable corn production. By planting the hybrids best suited to the individual farm location, a grower can obtain higher yields with little or no increase in total production costs. Seed of hybrids with the best performance records in Michigan will generally cost no more than seed of hybrids with lower performance ratings.

The highest yielding hybrids in the 1990 trials produced 36 bushels more per acre than

the average of 319 hybrids tested (Table A) and 72 bushels more than the lowest yielding hybrids. At 11 trial locations containing 20 tests, the yields were 195 bushels for the highest, 159 bushels for the average, and 123 bushels for the lowest yielding hybrids. The driest hybrids at harvest contained 4 percent less moisture than the average and 9 percent less moisture than the highest moisture hybrids tested. Stalk breakage averaged 13 percent for the hybrids with the highest amount of stalk lodging, 4 percent for the average and .02 percent for the lowest.

Entries

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

Table 18 presents an index of all hybrids entered in the 1990 trials. At the 11 locations, 319 hybrids from 42 seed companies were tested as 1520 entries. Company names used in association with hybrid numbers refer to the brand. The numbers are the companies' designations.

Methods

Major changes were made in the testing methods employed in 1990. Three locations were identified in each of the three lower Michigan maturity zones. Northern Michigan Zone Four had two locations. These zones are based on growing degree-days established from long-term weather records. Hybrids to be tested in each zone were entered in all locations representing that zone. Hybrids tested at each location were grouped according to the maturity ratings provided by the seed companies.

A second major change was the use of two-row plots. Plots were 20 feet long with a 30-inch spacing between. The plantings were

made at the rate of 28,000 seeds per acre. A three-replication, triple-lattice design was used throughout the testing program.

All hybrids were provided an equal opportunity to demonstrate their capabilities. They were grown in farmers' fields with equal fertilizer, population, date of planting, and other management practices.

Stand counts were taken prior to tasseling. Lodging measurements were made prior to harvest. Plots were harvested mechanically for both grain and silage. Grain yields are reported at a standard 15.5 percent moisture; silage yield estimates are based on an air-dried sample.

From seed packaging through harvest and data processing, each hybrid is identified only by a code number to assure that an unbiased estimate is made of each hybrid's potential. The code is deciphered after the data have been processed.

Silage yields were measured in Ingham and Huron counties (Tables 16 and 17). Trials in Cass, Montcalm, and Mason counties were irrigated.

Growing Conditions

All plantings were completed between May 1 and May 18. Planting was timely. Cool growing conditions with higher than average rainfall prevailed over much of Michigan during the first four to six weeks of the season (Table B). The vegetative development of the corn plant as of July 1 was behind expectations for that period. This is clearly a reflection of temperatures below the expected averages during the early growing season. The available moisture supply and distribution was near the long-term average, a significant change from the extremely dry season of 1988. Total corn acreage planted in 1990 was 2,400,000 with a harvested acreage of 2,050,000, up 4 percent from 1989.

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The Michigan Crop Reporting Service estimated the average yield as of November 1 to be 115 bushels per acre. This would be the second year in a row that Michigan has recorded an all-time record yield. The previous high was 113 bushels per acre in 1989.

The area harvested for silage has been estimated at 350,000 acres. Average silage yields were not available at time of publication.

How to Use This Bulletin

One-, two- and three-year averages are presented for all hybrids tested during 1990, 1989, and 1988 wherever the data are available. 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's.

New in this year's testing program are data from the three-location entry system. Tables 4, 8, 12, and 15 report the average measurements made on entries within a maturity zone.

The tables report the following about the hybrids tested:

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

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

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

Stalk breakage can be 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 because of uncontrolled variability in the soil and other environmental factors. Replication and randomization of the entries are two methods used to reduce these errors. Because these methods do not eliminate all of these variables, the magnitude of difference necessary for statistical significance has been calculated for yield and moisture content. The value calculated as the "least significance difference" or "LSD" is the amount that an individual hybrid would have to differ from the experiment average to be significantly different from that average.

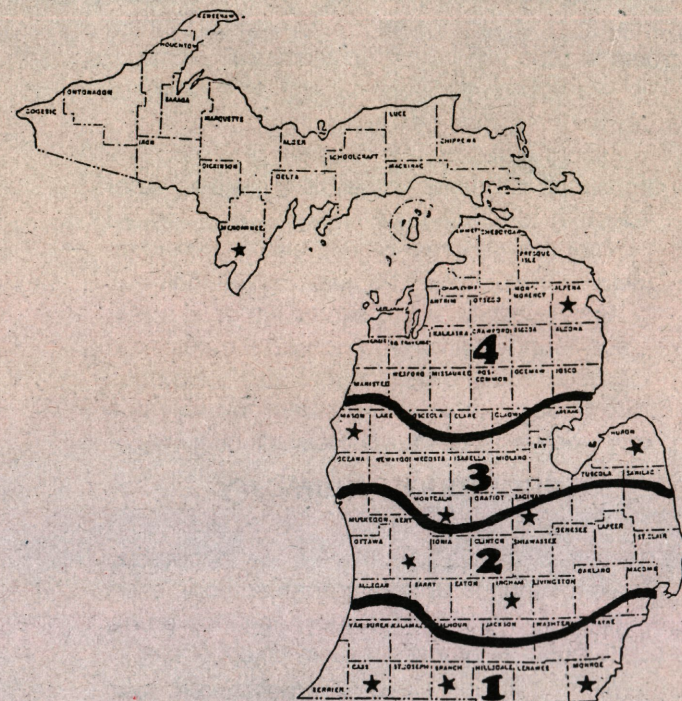
Hybrids with yields significantly better than the average grain yield at each location are marked with an asterisk (*) in each table. Other agronomic information relative to each trial is given at the bottom of the table. Fertilizer amounts are shown as total pounds per acre of nitrogen, P_2O_5 and K_2O applied during the season.

How to Choose a Hybrid

Adaptation

The following map shows the locations of the trials and divides Michigan into four generalized maturity zones. Local variations in weather, soil type and fertility, time of planting, and other conditions all affect adaptation. Corn hybrids are often adapted to more than one zone.

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



Corn Maturity Zones and Locations (*) of Trials

Planting Rate

The number of seeds sown per acre in Michigan has increased steadily over the past several years. High plant populations (24,000 or more per acre) should be considered only for soils consistently producing more than 100 bushels per acre. With high plant populations, rainfall deficiencies and other growing season stresses frequently result in no increase in yield and may actually result in decreased yield compared with a more modest plant population of approximately 20,000 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 reasonably 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 reflects a delay in maturity of about two days. Corn is mature when moisture reaches about 32 percent in the grain or 38 percent in the ear.

For Grain

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

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

For Silage

A good rule of thumb for selecting a superior silage hybrid is to choose one that also has the potential for high grain production. High dry-weight production per acre is a better reason for choosing hybrids for silage than tons of green weight.

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

Other Considerations

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

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

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

Ways to Reduce Stalk Lodging

Several stalk-rotting fungi may cause broken stalks at harvest and create a major problem in corn production. Stalk rot occurs when fungi increase rapidly after the plant has matured or when the plant dies prematurely. The highest incidence of stalk rot occurs in years when corn matures early and harvest is delayed.

Infection and disease development are favored by warm, humid weather and abundant rainfall during the latter part of the growing season.

Hybrid resistance to stalk rot is only one of several factors that determine the extent of stalk breakage. There are no clear-cut cases of specific hybrids that can consistently be depended upon 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 when harvest is delayed. Early hybrids that mature in September will have more stalk breakage than late-maturing hybrids if harvest occurs in November and December. There may be little or no advantage to planting the early-maturing hybrids if harvest is delayed.

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

Ways to Avoid Moldy Corn in 1991

Use the following recommendations to help prevent moldy corn in 1991.

- Plant early.
- Plant early- to medium-maturing hybrids.
- Harvest early—during October. Weather problems and harvest losses increase with later harvest.
- Plan for adequate artificial drying. Drying in the field or in the crib is slow and undependable in Michigan. Ready access to drying facilities will permit more timely harvest and prevent high post-harvest loss, a major factor in reduced corn profits.

Table A. Average, highest, and lowest grain yield, moisture content, and stalk lodging at 11 locations in 1990

Location—County	No. of Hybrids	Bushels per Acre			% Moisture			% Stalk Lodging		
		Average	Highest	Lowest	Average	Highest	Lowest	Average	Highest	Lowest
Monroe—Early	79	167	205	110	20	24	15	4	8	0
Late	74	183	222	144	23	26	20	4	12	0
Branch—Early	79	172	204	129	25	29	19	1	6	0
Late	74	183	216	156	29	34	26	1	6	0
Cass—Early	79	169	208	128	19	23	16	5	14	1
Late	74	179	222	145	23	26	19	4	9	1
Kent—Early	67	170	214	134	21	24	17	3	8	0
Late	74	186	221	148	23	29	19	2	5	0
Ingham—Early	67	163	197	122	21	26	17	5	14	1
Late	74	175	207	134	27	31	22	3	9	0
Saginaw—Early	67	157	193	115	21	24	18	5	17	0
Late	74	168	196	138	24	29	21	3	11	0
Huron—Early	85	151	187	122	21	25	19	11	31	0
Late	70	162	201	133	24	28	21	7	31	0
Montcalm—Early	85	148	182	107	27	31	21	5	14	0
Late	70	152	189	121	32	38	26	3	10	0
Mason—Early	85	156	196	116	24	28	19	4	10	0
Late	70	156	196	124	29	35	24	2	7	0
Alpena	41	110	142	87	23	33	19	6	16	0
Menominee	47	77	99	49	33	44	26	10	20	1
Average		159	195	123	24	29	20	4	13	0.2

Seed Supplies for 1991

Production of hybrid seed corn in 1990 was considerably better than in the disastrous season of 1988. Average temperatures and more timely rains in most seed production areas resulted in high quality seed. Supplies of most hybrids should be adequate for planting in 1991.

Table B. Precipitation and temperature summary

Location/Zone	*	May		June		July		August	
		AVE.	DEP.	AVE.	DEP.	AVE.	DEP.	AVE.	DEP.
Monroe/1	TEMP	57.1	-1.3	69.2	1.0	72.7	.7	70.2	0
	PPT	5.4	2.5	2.9	-.7	1.6	-1.2	4.9	1.7
Branch/1	TEMP	55.0	-3.4	67.1	-.8	70.3	-1.2	68.5	-1.1
	PPT	4.7	1.6	3.1	-.7	3.2	-.6	3.5	.2
Cass/1	TEMP	55.6	-2.9	67.9	-.5	70.9	-1.1	68.2	-1.6
	PPT	4.7	1.5	2.7	-1.3	3.7	.4	4.0	.8
Kent/2	TEMP	54.5	-3.5	66.2	-.4	69.8	-1.6	68.2	-1.4
	PPT	4.4	1.5	3.3	-.6	3.2	.3	3.5	.2
Ingham/2	TEMP	54.2	-3.1	66.5	-.3	69.5	-1.2	68.3	-.8
	PPT	3.7	.8	4.5	.5	3.6	.8	2.3	-1.1
Saginaw/2	TEMP	53.6	-4.2	65.8	-1.7	69.0	-2.6	67.6	-2.0
	PPT	3.0	.5	2.2	-.7	2.8	.1	5.2	2.0
Huron/3	TEMP	52.1	-3.0	64.6	-.3	67.9	-1.4	66.6	-1.2
	PPT	3.7	1.2	2.0	-.9	2.1	-.9	6.5	3.5
Montcalm/3	TEMP	54.3	-3.3	66.5	-1.0	70.1	-1.0	68.2	-1.1
	PPT	4.7	2.1	3.5	-.1	3.8	1.4	4.1	-.2
Mason/3	TEMP	51.8	-3.2	64.0	-.4	68.9	-.1	67.9	.6
	PPT	4.9	2.4	7.2	4.4	1.4	-1.0	4.6	.8
Alpena/4	TEMP	50.1	-1.4	61.9	.5	66.8	.3	65.5	.6
	PPT	2.8	-.1	4.7	1.4	3.5	.6	3.8	0
Menominee/4	TEMP	49.7	-4.0	62.3	-.4	66.0	-1.4	64.9	-.6
	PPT	5.5	2.0	5.6	1.9	6.9	-3.3	3.1	-.6

*TEMP = Temperature

PPT = Precipitation

AVE = Average

DEP = Departure from long term normal

Table 1
ZONE 1—SOUTHERN MICHIGAN—MONROE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (108 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
PIONEER 3751	15.2	16	18	151.0	145	138	6.6	5	4
GARST 8599	16.5	--	--	151.2	--	--	2.5	--	--
PIONEER 3733	16.7	--	--	158.8	--	--	3.9	--	--
TERRA TR1020	16.8	--	--	156.7	--	--	5.0	--	--
*PIONEER 3573	17.1	18	--	187.7	179	--	5.7	4	--
*SEDEX 1259	17.1	--	--	193.4	--	--	1.9	--	--
*DEKALB DK524	17.2	--	--	196.5	--	--	2.5	--	--
GREAT LAKES GL446	17.2	--	--	159.7	--	--	4.7	--	--
PROVICO 751	17.3	--	--	168.7	--	--	6.3	--	--
KING AGRO K499	17.3	17	--	173.8	168	--	8.1	5	--
NORTHRUP KING N4545	17.4	--	--	178.8	--	--	4.3	--	--
LEADER SX493	17.5	--	--	128.4	--	--	4.8	--	--
KING AGRO K470	17.6	--	--	159.4	--	--	7.7	--	--
GREAT LAKES GL482	17.8	--	--	166.6	--	--	7.4	--	--
CROW'S 237	17.9	--	--	160.5	--	--	6.4	--	--
PIONEER 3527	18.0	--	--	177.0	--	--	3.3	--	--
TOP FARM TFSX1103	18.0	--	--	142.4	--	--	2.6	--	--
CROW'S 210	18.1	--	--	148.6	--	--	6.0	--	--
TERRA TR1010	18.2	18	20	154.6	147	139	2.6	4	4
BLANEY B505	18.4	--	--	158.1	--	--	5.1	--	--
ASGROW RX578	18.5	18	21	149.8	134	134	4.7	4	4
CALLAHAN C743	18.5	--	--	149.9	--	--	3.9	--	--
PROVICO 710	18.6	--	--	152.0	--	--	3.2	--	--
AMCORN PSX8181	18.6	--	--	166.6	--	--	2.0	--	--
DEKALB DK535	18.8	18	20	180.3	152	136	1.3	2	3
DYNAGRO 5351	18.8	--	--	154.5	--	--	2.1	--	--
TOP FARM TFSX1105	18.9	--	--	154.9	--	--	1.3	--	--
*GREAT LAKES GL566	19.0	--	--	186.8	--	--	4.9	--	--
PIONEER 3475	19.0	20	21	155.3	153	147	4.1	3	3
MAUMEE VALLEY MV727	19.0	--	--	165.3	--	--	3.7	--	--
GREAT LAKES GL541	19.2	--	--	180.2	--	--	0.6	--	--
RENK RK646	19.2	--	--	153.2	--	--	6.0	--	--
BLANEY B602WX	19.3	--	--	137.7	--	--	3.9	--	--
SEDEX 1035	19.3	--	--	169.5	--	--	0.6	--	--
DAIRYLAND DX1204	19.6	--	--	144.1	--	--	1.9	--	--
AMCORN PSX6363	19.6	--	--	109.8	--	--	4.3	--	--
AMCORN PSX7450	19.6	--	--	152.2	--	--	3.2	--	--
GUTWEIN 2258	19.7	--	--	149.3	--	--	1.9	--	--
*TERRA TR1040	19.7	20	22	194.4	177	165	1.3	2	1
CALLAHAN C748	19.7	--	--	160.9	--	--	3.6	--	--
*PIONEER 3429	19.8	20	--	201.6	190	--	4.1	4	--
PROVICO 811	19.8	--	--	169.5	--	--	1.8	--	--
GARST 8574	19.8	--	--	171.4	--	--	1.2	--	--
*GREAT LAKES GL509	20.0	20	22	185.2	166	159	4.8	4	3
*CALLAHAN C759	20.0	--	--	191.3	--	--	0.0	--	--
*COUNTRYMARK C565X	20.2	21	22	189.1	170	159	4.9	5	3
GARST 8505	20.2	--	--	159.8	--	--	0.6	--	--
GREAT LAKES GL582	20.3	20	22	170.0	158	160	3.1	3	3
*PIONEER 3417	20.3	--	--	205.3	--	--	1.3	--	--
MAUMEE VALLEY MV711	20.3	--	--	159.2	--	--	8.2	--	--
DAIRYLAND DX1106	20.3	--	--	147.0	--	--	2.2	--	--
*BECK'S 54XA	20.3	--	--	187.5	--	--	0.7	--	--
GUTWEIN 2412	20.6	--	--	161.6	--	--	3.0	--	--
GRIES GSF-4460	20.7	21	--	182.5	154	--	8.1	5	--
RENK RK702	20.7	20	--	144.0	140	--	3.1	2	--

(continued below)

LATE TRIAL (109 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
ASGROW RX706	20.0	21	--	190.1	169	--	5.4	3	--
*RENK RK721	20.1	20	22	206.3	174	163	1.9	1	1
GARNO S-103XX	20.4	--	--	193.7	--	--	5.2	--	--
JACQUES 6770	20.7	--	--	146.1	--	--	1.3	--	--
DYNAGRO 5410	20.7	--	--	174.2	--	--	4.3	--	--
GOLDEN HARVEST H-2525	20.8	21	23	197.3	183	173	3.7	3	2
ANDERSONS PSX405	20.9	--	--	172.5	--	--	4.4	--	--
*TERRA TR1060	21.1	21	23	201.0	165	157	7.3	5	4
BLANEY B607WX	21.2	--	--	171.8	--	--	11.8	--	--
PIONEER X9628	21.3	--	--	190.2	--	--	2.5	--	--
CROW'S 488	21.3	21	22	196.4	172	169	5.5	3	2
*DYNAGRO 5470	21.5	--	--	201.1	--	--	1.2	--	--
RENK RK64	21.5	21	22	163.8	151	148	7.9	5	4
SEDEX 1090	21.6	--	--	187.9	--	--	3.1	--	--
AMCORN PSX9292	21.6	22	--	163.9	153	--	7.2	6	--
CROW'S 449	21.8	--	--	178.8	--	--	5.1	--	--
FUNK'S G-BRAND 4485	22.0	22	23	165.7	155	146	1.3	1	1
*GUTWEIN 2484	22.0	--	--	202.3	--	--	3.1	--	--
PIONEER 3379	22.1	20	23	195.1	183	174	2.1	2	1
GARST 8519	22.3	--	--	178.9	--	--	1.8	--	--
BECK'S 62XA	22.3	22	24	179.9	163	164	5.5	4	2
MAUMEE VALLEY MV812	22.4	21	23	174.0	171	168	8.1	4	3
SUPER CROST 4877	22.5	--	--	195.7	--	--	4.8	--	--
GARNO S-102XX	22.5	--	--	185.5	--	--	0.8	--	--
CARGILL SX269	22.5	--	--	180.1	--	--	4.6	--	--
GOLDEN HARVEST H-2532	22.5	22	23	193.7	184	179	3.7	3	2
FUNK'S G-BRAND 4490	22.6	--	--	167.7	--	--	1.9	--	--
PIONEER 3503	22.6	--	--	159.7	--	--	5.6	--	--
ASGROW RX727	22.7	--	--	178.4	--	--	0.0	--	--
MAUMEE VALLEY MV819	22.7	--	--	187.5	--	--	4.4	--	--
KING AGRO GG1012	22.7	22	24	183.7	161	164	4.4	3	3
BECK'S 66X	22.9	22	24	193.2	171	171	4.8	4	2
FUNK'S G-BRAND 4472	23.0	--	--	180.5	--	--	1.3	--	--
PIONEER 3343	23.0	22	--	194.7	185	--	7.8	5	--
CARGILL 6827	23.0	--	--	144.1	--	--	3.7	--	--
PRAIRIE STREAM SX420	23.0	--	--	188.0	--	--	2.0	--	--
GREAT LAKES GL590	23.1	--	--	163.1	--	--	3.6	--	--
MAUMEE VALLEY MV851	23.1	--	--	167.0	--	--	3.3	--	--
CARGILL 6227	23.2	22	23	191.3	165	156	5.4	3	2
ASGROW RX746	23.3	23	24	171.0	163	147	2.5	2	2
TOP FARM TFSX1112	23.3	--	--	162.5	--	--	2.6	--	--
CROW'S 498	23.3	--	--	165.4	--	--	2.4	--	--
GUTWEIN 2605	23.4	--	--	175.8	--	--	3.1	--	--
*CARGILL 7877	23.5	24	--	199.0	168	--	4.0	3	--
PROVICO 920	23.6	--	--	186.7	--	--	5.6	--	--
GREAT LAKES GL595	23.7	23	--	179.2	158	--	4.5	3	--
RUPP XR1829	23.7	24	--	188.5	159	--	6.0	4	--
GOLDEN HARVEST H-2572	23.7	24	25	185.4	170	165	3.3	2	1
GEN-TECH 1098	23.9	--	--	191.0	--	--	3.6	--	--
JACQUES 7820	24.0	24	25	192.7	163	160	5.1	4	3
GOLDEN HARVEST H-2583	24.1	24	--	178.4	160	--	4.4	2	--
*PIONEER 3245	24.2	--	--	221.6	--	--	3.5	--	--
*TERRA TR1120	24.2	23	25	202.5	178	171	2.5	2	2
PIONEER 3241	24.3	--	--	188.5	--	--	1.4	--	--
BECK'S 63X	24.4	--	--	178.3	--	--	4.8	--	--

(continued below)

Table 1 (continued)
ZONE 1—SOUTHERN MICHIGAN—MONROE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)
(108 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
RUPP XR2566	20.7	--	--	148.4	--	--	1.5	--	--
PROVICO 880	20.8	--	--	181.7	--	--	3.2	--	--
NORTHROP KING N6330	21.2	--	--	178.5	--	--	4.5	--	--
COUNTRYMARK C660X	21.2	21	23	142.7	149	146	3.2	3	2
ANDERSONS PSX370	21.2	--	--	175.1	--	--	3.2	--	--
ANDERSONS PSX380	21.2	--	--	170.3	--	--	6.2	--	--
PIONEER X9514	21.3	--	--	166.9	--	--	3.3	--	--
ASGROW RX626	21.4	20	22	153.3	143	130	1.4	2	1
*GOLDEN HARVEST H-2465	21.4	--	--	190.1	--	--	3.2	--	--
*CALLAHAN C764	21.4	21	23	187.6	169	165	2.4	2	2
GRIES GSF-X580	21.5	--	--	180.8	--	--	5.3	--	--
LEADER SX576	21.5	--	--	183.5	--	--	2.7	--	--
MAUMEE VALLEY MV762	21.6	21	22	183.4	171	162	5.5	5	4
PROVICO 850	21.7	--	--	179.4	--	--	1.5	--	--
DEKALB DK550	22.2	--	--	172.1	--	--	0.0	--	--
*KING AGRO GG1008	22.2	--	--	186.4	--	--	6.3	--	--
DAIRYLAND DX1110	22.2	22	--	178.7	176	--	0.7	1	--
RUPP XR1739	22.4	--	--	179.0	--	--	0.7	--	--
CALLAHAN C765	22.4	--	--	161.4	--	--	0.6	--	--
SEEDEX 1085	22.6	--	--	166.5	--	--	1.3	--	--
BECK'S 57X	22.7	--	--	171.1	--	--	3.9	--	--
GARNO S-101XX	22.9	--	--	161.7	--	--	2.5	--	--
GREAT LAKES GL579	23.0	22	23	169.3	160	157	5.6	3	2
*LEADER SX574	23.7	22	24	185.6	175	173	3.9	2	2
AVERAGE	19.7	20	21	167.3	161	151	3.5	3	3
RANGE	15.2	16	18	109.8	134	130	0.0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	23.7	22	24	205.3	190	173	8.2	5	4
LEAST SIGNIFICANT DIFFERENCE	1.8			17.1					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

LATE TRIAL (continued)
(109 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*GREAT LAKES GL599	24.6	24	25	203.1	174	168	2.4	2	2
PRAIRIE STREAM EX475	24.6	--	--	173.9	--	--	2.6	--	--
CARGILL 7993	24.7	25	25	192.5	162	161	1.3	1	1
KING AGRO K647	24.8	24	25	193.7	157	159	4.2	3	2
GARST 8344	24.8	--	--	187.7	--	--	0.7	--	--
NORTHROP KING PX9540	24.9	--	--	187.5	--	--	4.5	--	--
*RENK RK76	24.9	24	25	210.1	182	169	4.2	3	2
CARGILL 6927	25.0	24	25	167.7	157	153	0.7	1	2
NORTHROP KING N6560	25.3	--	--	180.5	--	--	3.2	--	--
RENK RK803	25.5	24	--	151.6	152	--	3.1	2	--
PROVICO 970	25.6	--	--	190.6	--	--	4.3	--	--
DAIRYLAND DX1117	25.6	25	--	182.3	157	--	1.8	2	--
*DEKALB DK636	25.7	25	--	201.2	157	--	1.8	3	--
CARGILL 8027	25.7	--	--	169.2	--	--	1.3	--	--
FUNK'S G-BRAND 4530	25.9	--	--	173.3	--	--	3.5	--	--
JACQUES 7910	26.0	--	--	171.6	--	--	6.1	--	--
BECK'S 74X	26.1	--	--	193.4	--	--	3.0	--	--
BLANEY B702WX	26.4	--	--	196.6	--	--	1.3	--	--
BLANEY B702	26.4	25	--	179.8	164	--	4.6	3	--
AVERAGE	23.2	23	24	183.2	166	163	3.7	3	2
RANGE	20.0	20	22	144.1	151	146	0.0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	26.4	25	25	221.6	185	179	11.8	6	4
LEAST SIGNIFICANT DIFFERENCE	1.6			15.7					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

	1990	1989	1988
PLANTED	MAY 8	MAY 12	MAY 7
HARVESTED	NOVEMBER 2	OCTOBER 28	OCTOBER 24
SOIL TYPE	TEDROW LOAMY SAND	BROOKSTON LOAM	BROOKSTON LOAM
PREVIOUS CROP	SOYBEANS	SOYBEANS	SOYBEANS
POPULATION	22,900	19,200	21,500
ROWS	30"	30"	30"
FERTILIZER	189-62-191 + ZINC	166-61-165	142-73-180
SOIL TEST: pH	5.9	6.3	6.6
P	200 (VERY HIGH)	84 (HIGH)	145 (VERY HIGH)
K	263 (HIGH)	311 (VERY HIGH)	400 (VERY HIGH)
FARM COOPERATOR:	Jerry Keuhnlein, Monroe (1990)		
	Gerald Heath, Milan (1989, 1988)		
COUNTY AGRICULTURAL AGENT:	Paul Marks & David Pratt, Monroe		

Table 2
ZONE 1—SOUTHERN MICHIGAN—BRANCH COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (108 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
PIONEER 3751	18.8	18	19	165.4	166	159	0.7	1	1
PIONEER 3733	20.2	--	--	181.5	--	--	1.4	--	--
DEKALB DK524	20.7	20	21	184.3	175	172	2.4	2	1
SEEDEX 1259	21.0	--	--	171.0	--	--	0.7	--	--
*PIONEER 3573	21.1	20	--	200.0	172	--	2.8	2	--
NORTHROP KING N4545	21.2	--	--	174.6	--	--	1.3	--	--
TOP FARM TFSX1103	21.3	--	--	176.7	--	--	3.2	--	--
CROW'S 210	21.5	21	--	162.2	160	--	1.9	2	--
BLANEY B602WX	21.7	--	--	143.0	--	--	1.4	--	--
PROVICO 710	22.0	--	--	181.4	--	--	1.3	--	--
PIONEER 3475	22.2	21	22	172.9	168	165	0.8	2	1
*KING AGRO K499	22.2	20	--	198.7	187	--	1.3	2	--
KING AGRO K470	22.3	--	--	176.3	--	--	1.3	--	--
GUTWEIN 2258	22.4	--	--	144.2	--	--	3.9	--	--
*DEKALB DK535	22.5	21	--	190.1	187	--	0.0	3	--
RENK RK646	22.6	--	--	162.6	--	--	2.2	--	--
CROW'S 237	22.7	--	--	169.8	--	--	1.6	--	--
*GREAT LAKES GL509	22.8	21	22	195.5	170	167	0.7	1	1
TERRA TR1020	22.8	--	--	152.1	--	--	2.7	--	--
GREAT LAKES GL446	23.1	--	--	150.5	--	--	3.1	--	--
GARST 8599	23.2	--	--	142.2	--	--	5.7	--	--
TERRA TR1010	23.2	21	21	162.6	152	147	3.6	2	1
DAIRYLAND DX1204	23.3	--	--	137.6	--	--	0.0	--	--
*AMCORN PSX7450	23.3	--	--	203.8	--	--	0.0	--	--
GREAT LAKES GL566	23.4	--	--	167.7	--	--	0.7	--	--
DYNAGRO 5351	23.4	--	--	135.4	--	--	0.7	--	--
PROVICO 751	23.4	--	--	164.1	--	--	2.3	--	--
AMCORN PSX6363	23.4	--	--	129.2	--	--	0.0	--	--
AMCORN PSX8181	23.4	--	--	169.6	--	--	0.8	--	--
BLANEY B505	23.5	--	--	162.2	--	--	0.0	--	--
TOP FARM TFSX1105	23.5	--	--	164.4	--	--	0.6	--	--
ASGROW RX578	23.7	22	22	157.2	162	156	0.0	1	1
CALLAHAN C743	23.8	--	--	157.3	--	--	4.8	--	--
GREAT LAKES GL482	24.0	--	--	162.7	--	--	2.6	--	--
*PIONEER 3527	24.3	--	--	193.3	--	--	0.0	--	--
CALLAHAN C748	24.3	--	--	184.7	--	--	1.8	--	--
GRIES GSF-4460	24.4	22	--	160.0	150	--	0.8	2	--
GARST 8505	24.4	--	--	184.5	--	--	0.0	--	--
MAUMEE VALLEY MV711	24.6	--	--	165.1	--	--	1.4	--	--
*TERRA TR1040	24.7	23	23	198.6	161	152	0.0	0	1
ASGROW RX626	24.8	23	22	164.9	154	150	1.4	1	1
RUPP XR2566	24.8	--	--	162.9	--	--	1.3	--	--
GREAT LAKES GL541	24.9	--	--	176.7	--	--	1.3	--	--
GARST 8574	24.9	--	--	185.0	--	--	0.0	--	--
PROVICO 811	25.0	--	--	184.6	--	--	1.7	--	--
RENK RK702	25.0	22	--	156.4	169	--	0.0	0	--
MAUMEE VALLEY MV727	25.1	--	--	171.1	--	--	1.6	--	--
*ANDERSONS PSX370	25.1	--	--	202.6	--	--	1.3	--	--
*GOLDEN HARVEST H-2465	25.1	--	--	192.3	--	--	1.3	--	--
LEADER SX493	25.2	--	--	134.6	--	--	3.4	--	--
PIONEER 3429	25.2	23	--	188.2	177	--	0.0	1	--
*BECK'S 54XA	25.2	23	--	198.6	201	--	0.7	0	--
PIONEER X9514	25.4	--	--	167.1	--	--	0.7	--	--
SEEDEX 1035	25.4	--	--	169.8	--	--	1.8	--	--
COUNTRYMARK C565X	25.6	23	23	181.4	172	162	1.9	2	2

(continued below)

LATE TRIAL (109 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
JACQUES 6770	26.0	23	--	171.5	172	--	2.8	2	--
*SEEDEX 1090	26.0	--	--	203.2	--	--	1.9	--	--
BLANEY B607WX	26.2	--	--	185.4	--	--	2.6	--	--
*MAUMEE VALLEY MV819	26.5	--	--	216.3	--	--	0.0	--	--
RENK RK64	26.5	24	--	181.0	177	--	4.9	3	--
*RENK RK721	26.5	24	24	203.7	202	183	0.7	0	1
DYNAGRO 5410	26.7	--	--	170.6	--	--	2.3	--	--
*DYNAGRO 5470	27.0	--	--	204.9	--	--	2.6	--	--
GUTWEIN 2484	27.1	--	--	184.4	--	--	2.2	--	--
PIONEER 3503	27.1	--	--	188.8	--	--	0.0	--	--
FUNK'S G-BRAND 4472	27.2	--	--	176.1	--	--	0.6	--	--
CARGILL SX269	27.2	--	--	191.5	--	--	0.0	--	--
TERRA TR1060	27.3	24	24	187.4	183	175	1.3	1	1
SUPER CROST 4877	27.4	25	25	187.7	183	185	0.7	1	1
ASGROW RX727	27.4	--	--	172.9	--	--	0.7	--	--
PIONEER 3379	27.6	24	24	182.1	188	188	0.0	0	1
*GOLDEN HARVEST H-2525	27.6	--	--	202.1	--	--	1.3	--	--
*AMCORN PSX9292	27.7	25	--	199.1	193	--	0.7	2	--
CARGILL 6227	27.9	25	24	195.2	183	178	0.0	1	1
NORTHROP KING N6560	28.0	--	--	169.4	--	--	0.7	--	--
ASGROW RX746	28.0	--	--	170.0	--	--	2.0	--	--
MAUMEE VALLEY MV851	28.0	25	25	164.3	161	161	0.0	3	2
*GOLDEN HARVEST H-2532	28.1	25	25	213.0	189	187	1.3	2	2
*ASGROW RX706	28.2	25	--	210.8	193	--	1.3	2	--
GEN-TECH 1098	28.2	--	--	193.7	--	--	1.3	--	--
PRAIRIE STREAM SX420	28.2	--	--	196.2	--	--	0.0	--	--
MAUMEE VALLEY MV812	28.3	26	25	183.0	183	174	5.6	3	3
CROW'S 488	28.3	25	24	193.4	183	181	1.9	3	2
FUNK'S G-BRAND 4485	28.4	26	26	166.0	172	169	0.0	2	2
PRAIRIE STREAM EX475	28.4	--	--	178.5	--	--	3.3	--	--
FUNK'S G-BRAND 4490	28.5	--	--	162.9	--	--	0.6	--	--
GARST 8519	28.5	--	--	168.2	--	--	0.0	--	--
PIONEER 3343	28.6	26	--	177.4	185	--	0.0	0	--
GUTWEIN 2605	28.7	--	--	175.8	--	--	2.0	--	--
PIONEER X9628	28.9	--	--	192.4	--	--	0.0	--	--
BECK'S 62XA	28.9	25	--	164.6	183	--	3.4	3	--
CARGILL 6827	29.0	--	--	166.7	--	--	0.7	--	--
CROW'S 449	29.2	--	--	165.3	--	--	0.0	--	--
BECK'S 66X	29.2	27	--	191.0	187	--	3.5	3	--
CARGILL 6927	29.3	26	26	155.7	154	145	0.0	1	1
CROW'S 498	29.3	--	--	181.2	--	--	0.6	--	--
PIONEER 3241	29.4	--	--	188.3	--	--	0.7	--	--
GOLDEN HARVEST H-2572	29.4	26	26	187.5	186	185	0.6	2	2
*GREAT LAKES GL599	29.5	--	--	198.7	--	--	1.2	--	--
PROVICO 920	29.5	--	--	163.1	--	--	1.4	--	--
RENK RK803	29.5	26	--	166.7	165	--	0.0	2	--
*KING AGRO K647	29.6	27	25	198.9	165	171	1.9	2	1
GOLDEN HARVEST H-2583	29.6	27	--	195.0	190	--	0.0	0	--
TOP FARM TFSX1112	29.7	--	--	159.0	--	--	1.3	--	--
GREAT LAKES GL595	29.8	--	--	155.9	--	--	3.2	--	--
GARNO S-103XX	29.9	--	--	193.0	--	--	3.2	--	--
BLANEY B702	30.0	27	--	168.0	176	--	1.5	1	--
JACQUES 7820	30.0	--	--	178.1	--	--	0.6	--	--
GREAT LAKES GL590	30.0	--	--	170.4	--	--	0.7	--	--
GARST 8344	30.0	--	--	192.6	--	--	1.4	--	--

(continued below)

Table 2 (continued)
ZONE 1—SOUTHERN MICHIGAN—BRANCH COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)									
(108 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
DEKALB DK550	25.7	--	--	171.7	--	--	1.5	--	--
*RUPP XR1739	25.7	--	--	194.6	--	--	0.0	--	--
*PROVICO 880	26.0	--	--	189.4	--	--	1.2	--	--
MAUMEE VALLEY MV762	26.0	23	23	178.3	168	156	2.4	3	2
GREAT LAKES GL582	26.1	24	23	174.8	177	182	3.4	3	2
CALLAHAN C759	26.1	--	--	175.0	--	--	0.0	--	--
GARNO S-101XX	26.5	--	--	177.9	--	--	4.3	--	--
DAIRYLAND DX1106	26.5	--	--	151.6	--	--	0.9	--	--
PROVICO 850	26.6	--	--	182.6	--	--	0.0	--	--
GUTWEIN 2412	26.8	--	--	146.8	--	--	1.3	--	--
LEADER SX576	27.0	--	--	179.6	--	--	0.0	--	--
*PIONEER 3417	27.0	--	--	203.4	--	--	0.0	--	--
DAIRYLAND DX1110	27.0	25	--	164.8	161	--	0.0	1	--
NORTHROP KING N6330	27.4	--	--	173.6	--	--	0.8	--	--
GRIES GSF-X580	27.6	--	--	181.5	--	--	0.7	--	--
*COUNTRYMARK C660X	27.9	25	24	191.6	197	180	0.0	1	1
KING AGRO GG1008	28.1	--	--	182.1	--	--	0.7	--	--
*CALLAHAN C764	28.2	25	24	194.8	159	156	0.0	3	2
CALLAHAN C765	28.5	--	--	149.4	--	--	3.5	--	--
ANDERSONS PSX380	28.6	25	--	157.0	166	--	1.0	1	--
SEEDDEX 1085	28.7	--	--	159.7	--	--	0.0	--	--
GREAT LAKES GL579	28.8	25	24	165.7	157	161	2.6	1	1
LEADER SX574	29.2	--	--	179.2	--	--	0.0	--	--
BECK'S 57X	29.3	--	--	152.6	--	--	1.7	--	--
AVERAGE	24.6	22	22	171.8	169	162	1.3	1	1
RANGE	18.8	18	19	129.2	150	147	0.0	0	1
	29.3	25	24	203.8	201	182	5.7	3	2
LEAST SIGNIFICANT DIFFERENCE	2.3			17.4					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

LATE TRIAL (continued)									
(109 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
CARGILL 7877	30.0	27	--	186.6	177	--	0.0	0	--
*CARGILL 7993	30.0	27	26	198.7	191	184	0.7	1	1
RUPP XR1829	30.0	--	--	174.1	--	--	0.0	--	--
ANDERSONS PSX405	30.0	--	--	189.3	--	--	2.0	--	--
TERRA TR1120	30.1	27	26	172.6	167	169	2.8	3	2
GARNO S-102XX	30.2	--	--	179.4	--	--	2.1	--	--
NORTHROP KING PX9540	30.2	27	26	188.6	183	184	1.9	2	1
*BECK'S 63X	30.2	27	26	201.4	187	183	0.6	1	1
PROVICO 970	30.3	--	--	190.2	--	--	1.4	--	--
DEKALB DK636	30.4	27	--	191.3	175	--	0.7	1	--
FUNK'S G-BRAND 4530	30.6	--	--	177.4	--	--	1.3	--	--
KING AGRO GG1012	30.6	27	26	179.7	166	170	0.0	2	2
BLANEY B702WX	31.0	--	--	184.1	--	--	3.4	--	--
JACQUES 7910	31.0	--	--	166.3	--	--	0.0	--	--
CARGILL 8027	31.3	28	--	189.2	168	--	2.7	3	--
RENK RK76	31.5	27	26	184.3	195	193	0.6	1	1
DAIRYLAND DX1117	32.0	28	--	160.1	161	--	0.0	1	--
PIONEER 3245	32.7	--	--	171.6	--	--	2.2	--	--
BECK'S 74X	33.9	--	--	176.1	--	--	1.3	--	--
AVERAGE	28.9	26	25	182.7	179	177	1.3	2	1
RANGE	26.0	23	24	155.7	154	145	0.0	0	1
	33.9	28	26	216.3	202	193	5.6	3	3
LEAST SIGNIFICANT DIFFERENCE	1.2			15.1					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

	1990	1989	1988
PLANTED	MAY 7	MAY 4	APRIL 30
HARVESTED	OCTOBER 31	OCTOBER 27	OCTOBER 26
SOIL TYPE	SIBEWA LOAM	SIBEWA LOAM	GILFORD SANDY LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	21,700	18,500	22,000
ROWS	30"	30"	30"
FERTILIZER	186-55-150	185-74-180	226-92-0
SOIL TEST: pH	5.4	5.9	6.4
P	220 (VERY HIGH)	186 (VERY HIGH)	258 (VERY HIGH)
K	438 (VERY HIGH)	303 (VERY HIGH)	301 (VERY HIGH)

FARM COOPERATOR: David Labar, Union City

COUNTY EXTENSION DIRECTOR: Ray Fast, Coldwater

Table 3
ZONE 1—SOUTHERN MICHIGAN—CASS COUNTY—IRRIGATED TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL
(108 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
PIONEER 3751	15.9	16	--	149.4	153	--	4.8	3	--
DEKALB DK535	16.2	17	19	174.0	182	171	1.8	3	3
TERRA TR1020	16.3	--	--	137.9	--	--	4.9	--	--
LEADER SX493	16.6	--	--	141.5	--	--	11.5	--	--
PIONEER 3733	16.7	--	--	169.1	--	--	7.7	--	--
PROVICO 710	16.7	--	--	150.9	--	--	4.4	--	--
PROVICO 751	16.7	--	--	178.9	--	--	2.1	--	--
KING AGRO K499	16.8	17	--	160.2	152	--	6.2	4	--
TERRA TR1010	16.9	--	--	160.2	--	--	1.7	--	--
TOP FARM TFSX1103	16.9	--	--	164.0	--	--	1.8	--	--
BLANEY B505	17.1	--	--	142.0	--	--	7.1	--	--
SEEDDEX 1259	17.1	--	--	171.6	--	--	4.5	--	--
CROW'S 237	17.1	--	--	136.6	--	--	4.6	--	--
GREAT LAKES GL446	17.2	--	--	152.2	--	--	7.8	--	--
RENK RK646	17.2	--	--	141.8	--	--	8.3	--	--
NORTHROP KING N4545	17.3	--	--	171.3	--	--	1.3	--	--
PIONEER 3475	17.3	18	20	164.3	172	165	5.1	5	3
KING AGRO K470	17.3	--	--	159.2	--	--	12.9	--	--
*DEKALB DK524	17.4	--	--	187.0	--	--	5.4	--	--
ASGROW RX578	17.4	18	19	141.7	160	160	2.6	3	2
*PIONEER 3573	17.5	18	--	197.9	187	--	2.7	1	--
GREAT LAKES GL509	17.6	18	19	181.8	169	177	7.6	4	4
GARST 8599	17.6	--	--	152.4	--	--	2.6	--	--
SEEDDEX 1035	17.7	--	--	177.0	--	--	3.2	--	--
CALLAHAN C743	17.7	--	--	153.0	--	--	5.2	--	--
BLANEY B602WX	17.9	--	--	143.5	--	--	13.8	--	--
PROVICO 811	18.0	--	--	166.6	--	--	0.6	--	--
CALLAHAN C748	18.0	--	--	176.5	--	--	1.7	--	--
ASGROW RX626	18.1	19	20	157.0	167	158	2.5	2	2
MAUMEE VALLEY MV711	18.1	--	--	184.5	--	--	5.7	--	--
CROW'S 210	18.1	--	--	156.1	--	--	4.5	--	--
GUTWEIN 2412	18.3	--	--	165.8	--	--	3.0	--	--
DAIRYLAND DX1204	18.3	--	--	136.9	--	--	6.3	--	--
AMCORN PSX8181	18.3	--	--	180.0	--	--	3.3	--	--
GREAT LAKES GL541	18.4	--	--	178.8	--	--	7.9	--	--
GARST 8505	18.4	--	--	146.5	--	--	3.3	--	--
GREAT LAKES GL566	18.5	--	--	183.4	--	--	3.5	--	--
MAUMEE VALLEY MV727	18.5	--	--	180.9	--	--	3.5	--	--
GREAT LAKES GL482	18.6	--	--	170.8	--	--	3.9	--	--
GARNO S-101XX	18.7	--	--	176.8	--	--	2.0	--	--
DYNAGRO 5351	18.7	--	--	128.9	--	--	3.4	--	--
GARST 8574	18.7	--	--	172.7	--	--	3.6	--	--
DAIRYLAND DX1106	18.8	--	--	169.3	--	--	0.7	--	--
TOP FARM TFSX1105	18.9	--	--	129.0	--	--	2.0	--	--
AMCORN PSX6363	18.9	--	--	132.1	--	--	2.4	--	--
*COUNTRYMARK C660X	19.0	--	--	191.8	--	--	2.4	--	--
RENK RK702	19.0	19	--	159.0	158	--	4.6	3	--
*GREAT LAKES GL582	19.2	20	21	197.2	197	194	7.2	4	3
GUTWEIN 2258	19.2	--	--	127.7	--	--	1.3	--	--
RUPP XR2566	19.2	--	--	135.0	--	--	1.5	--	--
DEKALB DK550	19.3	--	--	172.5	--	--	2.5	--	--
PIONEER 3527	19.3	--	--	184.5	--	--	1.3	--	--
GRIES GSF-X580	19.4	--	--	181.2	--	--	10.2	--	--
*ANDERSONS PSX370	19.4	--	--	207.5	--	--	4.5	--	--
GREAT LAKES GL579	19.5	--	--	174.0	--	--	9.9	--	--

(continued below)

LATE TRIAL
(109 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
JACQUES 6770	19.4	--	--	175.8	--	--	1.3	--	--
DYNAGRO 5410	19.7	--	--	158.0	--	--	4.9	--	--
MAUMEE VALLEY MV812	19.9	20	21	175.9	187	184	6.9	4	3
PIONEER 3379	20.4	20	22	162.1	185	184	2.6	1	1
BLANEY B607WX	20.5	--	--	173.0	--	--	6.7	--	--
SEEDDEX 1090	20.5	--	--	186.7	--	--	5.4	--	--
CARGILL SX269	20.6	21	22	186.2	192	190	4.4	5	4
RENK RK64	20.6	20	21	188.2	184	176	4.2	3	3
MAUMEE VALLEY MV819	20.7	--	--	194.0	--	--	3.6	--	--
BECK'S 66X	20.7	--	--	168.9	--	--	8.7	--	--
BECK'S 62XA	20.7	21	--	173.5	181	--	8.9	6	--
ASGROW RX706	20.8	21	--	188.2	183	--	3.1	3	--
CROW'S 449	20.9	22	--	181.9	179	--	2.4	2	--
TERRA TR1060	20.9	--	--	187.5	--	--	7.7	--	--
*PRAIRIE STREAM SX420	21.3	--	--	194.4	--	--	2.5	--	--
CROW'S 488	21.3	21	21	177.3	182	173	2.0	2	2
GOLDEN HARVEST H-2525	21.4	21	22	189.8	200	192	2.5	2	3
FUNK'S G-BRAND 4472	21.6	--	--	183.6	--	--	3.1	--	--
GARNO S-102XX	21.6	--	--	173.7	--	--	6.4	--	--
AMCORN PSX9292	21.6	--	--	183.8	--	--	5.3	--	--
*SUPER CROST 4877	21.7	22	23	197.3	200	195	2.5	4	4
GARNO S-103XX	21.9	--	--	187.2	--	--	5.4	--	--
CARGILL 6227	21.9	22	23	186.5	192	185	1.9	2	2
RENK RK721	21.9	21	--	178.1	178	--	3.2	3	--
ANDERSONS PSX405	21.9	--	--	190.2	--	--	3.7	--	--
*GOLDEN HARVEST H-2532	22.1	22	22	211.3	214	213	3.9	4	3
GUTWEIN 2484	22.3	--	--	187.9	--	--	2.4	--	--
GUTWEIN 2605	22.4	--	--	172.1	--	--	1.3	--	--
FUNK'S G-BRAND 4485	22.6	22	--	167.4	163	--	2.4	2	--
*PIONEER 3343	22.6	22	--	201.3	187	--	1.4	3	--
MAUMEE VALLEY MV851	22.6	22	23	167.0	162	160	3.0	4	3
GREAT LAKES GL590	22.7	--	--	158.3	--	--	4.4	--	--
PIONEER 3503	22.8	--	--	187.0	--	--	1.3	--	--
DYNAGRO 5470	22.8	--	--	191.1	--	--	0.7	--	--
KING AGRO GG1012	22.9	23	24	169.7	158	163	1.5	2	2
ASGROW RX727	23.0	--	--	169.1	--	--	4.3	--	--
PROVICO 920	23.0	--	--	164.5	--	--	4.4	--	--
PRAIRIE STREAM EX475	23.0	--	--	177.8	--	--	1.5	--	--
GEN-TECH 1098	23.1	--	--	166.4	--	--	5.6	--	--
NORTHROP KING N6560	23.2	--	--	165.2	--	--	6.4	--	--
PIONEER 3241	23.2	--	--	187.2	--	--	2.0	--	--
FUNK'S G-BRAND 4490	23.3	--	--	146.3	--	--	2.9	--	--
CARGILL 6927	23.3	--	--	157.0	--	--	2.0	--	--
CROW'S 498	23.5	--	--	154.3	--	--	2.6	--	--
GREAT LAKES GL595	23.7	--	--	164.1	--	--	2.0	--	--
*CARGILL 7993	23.8	23	24	201.5	200	198	2.5	3	2
JACQUES 7910	23.9	--	--	165.4	--	--	5.1	--	--
ASGROW RX746	23.9	--	--	158.1	--	--	1.9	--	--
PIONEER 3245	24.0	--	--	183.7	--	--	1.9	--	--
KING AGRO K647	24.1	23	23	178.6	157	159	4.4	3	2
PROVICO 970	24.2	--	--	183.8	--	--	4.4	--	--
*CARGILL 7877	24.2	24	--	222.1	205	--	2.5	4	--
GOLDEN HARVEST H-2583	24.2	24	--	185.0	201	--	3.9	3	--
GARST 8344	24.3	--	--	181.8	--	--	0.7	--	--
GARST 8519	24.3	--	--	158.3	--	--	5.4	--	--

(continued below)

Table 3 (continued)
ZONE 1—SOUTHERN MICHIGAN—CASS COUNTY—IRRIGATED TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)									
(108 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*COUNTRYMARK C565X	19.6	--	--	185.8	--	--	7.7	--	--
*GOLDEN HARVEST H-2465	19.6	19	20	189.3	180	173	6.2	4	4
TERRA TR1040	19.6	--	--	172.7	--	--	5.6	--	--
AMCORN PSX7450	19.6	19	--	175.4	178	--	3.0	2	--
PIONEER 3417	19.7	--	--	183.3	--	--	1.9	--	--
MAUMEE VALLEY MV762	19.8	20	20	156.3	170	165	7.2	4	4
GRIES GSF-4460	19.9	--	--	164.1	--	--	8.7	--	--
*KING AGRO GG1008	19.9	--	--	185.6	--	--	6.5	--	--
*RUPP XR1739	19.9	21	22	189.0	177	177	8.1	5	4
CALLAHAN C765	19.9	--	--	160.4	--	--	4.6	--	--
*NORTHROP KING N6330	20.1	--	--	196.7	--	--	5.1	--	--
*PROVICO 880	20.1	--	--	199.7	--	--	3.4	--	--
*PIONEER 3429	20.2	20	--	195.1	181	--	1.2	1	--
*BECK'S 54XA	20.2	--	--	186.6	--	--	5.4	--	--
*CALLAHAN C759	20.4	--	--	185.9	--	--	1.8	--	--
*DAIRYLAND DX1110	20.5	21	--	188.2	185	--	4.5	3	--
PIONEER X9514	20.6	--	--	183.3	--	--	2.5	--	--
*CALLAHAN C764	20.6	21	22	193.2	168	175	3.8	3	3
LEADER SX576	20.7	--	--	174.0	--	--	4.4	--	--
PROVICO 850	20.8	--	--	181.3	--	--	6.0	--	--
ANDERSONS PSX380	20.8	21	--	175.3	173	--	6.0	5	--
*SEEDEX 1085	20.9	--	--	185.7	--	--	1.3	--	--
LEADER SX574	21.4	--	--	174.3	--	--	6.6	--	--
*BECK'S 57X	23.1	--	--	195.5	--	--	4.8	--	--
AVERAGE	18.7	19	20	169.1	173	171	4.6	3	3
RANGE	15.9	16	19	127.7	152	158	0.6	1	2
TO TO TO	23.1	21	22	207.5	197	194	13.8	5	4
LEAST SIGNIFICANT DIFFERENCE	1.0			15.6					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

LATE TRIAL (continued)									
(109 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
CARGILL 6827	24.3	--	--	144.9	--	--	5.1	--	--
TOP FARM TFSX1112	24.3	--	--	156.4	--	--	4.4	--	--
*PIONEER X9628	24.4	--	--	208.3	--	--	3.7	--	--
JACQUES 7820	24.5	23	24	176.3	172	179	2.4	2	2
BECK'S 63X	24.5	23	24	173.9	194	196	1.8	2	2
DEKALB DK636	24.6	24	--	187.7	188	--	2.5	2	--
TERRA TR1120	24.6	--	--	183.6	--	--	6.5	--	--
GOLDEN HARVEST H-2572	24.6	24	24	176.1	186	186	4.4	2	2
*CARGILL 8027	24.9	24	--	202.6	202	--	2.4	2	--
NORTHROP KING PX9540	25.0	--	--	170.0	--	--	1.9	--	--
DAIRYLAND DX1117	25.0	24	--	182.2	180	--	7.0	6	--
RUPP XR1829	25.0	24	--	180.8	171	--	3.5	3	--
RENK RK76	25.2	24	24	188.4	189	186	1.8	3	2
RENK RK803	25.2	23	--	150.1	162	--	1.9	2	--
BLANEY B702	25.3	24	--	178.2	190	--	2.9	3	--
FUNK'S G-BRAND 4530	25.3	--	--	180.7	--	--	1.9	--	--
*GREAT LAKES GL599	25.3	--	--	200.8	--	--	3.4	--	--
*BLANEY B702WX	25.4	--	--	194.4	--	--	1.9	--	--
*BECK'S 74X	25.6	--	--	204.2	--	--	4.6	--	--
AVERAGE	22.9	22	23	179.3	185	183	3.5	3	2
RANGE	19.4	20	21	144.9	157	159	0.7	1	1
TO TO TO	25.6	24	24	222.1	214	213	8.9	6	4
LEAST SIGNIFICANT DIFFERENCE	1.1			15.0					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

	1990	1989	1988
PLANTED	MAY 7	MAY 5	APRIL 30
HARVESTED	NOVEMBER 1	OCTOBER 24-25	OCTOBER 21
SOIL TYPE	OSSTEMO SANDY LOAM	OSSTEMO SANDY LOAM	OSSTEMO SANDY LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	23,200	20,200	22,500
ROWS	30"	30"	30"
FERTILIZER	139-40-128 + SULFUR & ZINC	214-40-8 + SULFUR & ZINC	139-40-128
SOIL TEST: pH	6.0	6.8	7.0
P	196 (VERY HIGH)	200 (VERY HIGH)	294 (VERY HIGH)
K	564 (VERY HIGH)	372 (VERY HIGH)	408 (VERY HIGH)
IRRIGATION	4 INCHES	3 INCHES	8 INCHES

FARM COOPERATOR: Dave and Melvin Cripe, Cassopolis

COUNTY AGRICULTURAL AGENT: Wayne Hothem, Cassopolis

Table 4
ZONE 1—SOUTHERN MICHIGAN—AVERAGE OF MONROE, BRANCH, & CASS COUNTY TRIALS
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL
 (108 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
PIONEER 3751	16.6	17	18	155.3	155	148	4.0	3	2
PIONEER 3733	17.9	--	--	169.8	--	--	4.3	--	--
*DEKALB DK524	18.4	19	20	189.3	178	171	3.4	3	2
SEEDEX 1259	18.4	--	--	178.7	--	--	2.4	--	--
NORTHROP KING N4545	18.6	--	--	174.9	--	--	2.3	--	--
*PIONEER 3573	18.6	19	--	195.2	179	--	3.7	3	--
TERRA TR1020	18.6	--	--	148.9	--	--	4.2	--	--
TOP FARM TFSX1103	18.7	--	--	161.0	--	--	2.5	--	--
KING AGRO K499	18.8	18	--	177.6	169	--	5.2	4	--
PROVICO 710	19.1	--	--	161.4	--	--	3.0	--	--
PROVICO 751	19.1	--	--	170.6	--	--	3.6	--	--
KING AGRO K470	19.1	--	--	165.0	--	--	7.3	--	--
GARST 8599	19.1	--	--	148.6	--	--	3.6	--	--
DEKALB DK535	19.2	19	20	181.5	174	158	1.0	3	3
GREAT LAKES GL446	19.2	--	--	154.1	--	--	5.2	--	--
CROW'S 210	19.2	20	21	155.6	157	142	4.1	3	2
CROW'S 237	19.2	--	--	155.6	--	--	4.2	--	--
TERRA TR1010	19.4	19	20	159.1	150	143	2.6	3	2
PIONEER 3475	19.5	20	21	164.2	164	159	3.3	3	3
BLANEY B602WX	19.6	--	--	141.4	--	--	6.4	--	--
BLANEY B505	19.7	--	--	154.1	--	--	4.1	--	--
RENK RK646	19.7	--	--	152.5	--	--	5.5	--	--
LEADER SX493	19.8	--	--	134.8	--	--	6.6	--	--
ASGROW RX578	19.9	19	21	149.6	152	150	2.4	3	2
CALLAHAN C743	20.0	--	--	153.4	--	--	4.6	--	--
GREAT LAKES GL482	20.1	--	--	166.7	--	--	4.6	--	--
*GREAT LAKES GL509	20.1	20	21	187.5	168	168	4.4	3	3
AMCORN PSX8181	20.1	--	--	172.1	--	--	2.0	--	--
GREAT LAKES GL566	20.3	--	--	179.3	--	--	3.0	--	--
DYNAGRO 5351	20.3	--	--	139.6	--	--	2.1	--	--
GUTWEIN 2258	20.4	--	--	140.4	--	--	2.4	--	--
DAIRYLAND DX1204	20.4	--	--	139.5	--	--	2.7	--	--
TOP FARM TFSX1105	20.4	--	--	149.4	--	--	1.3	--	--
PIONEER 3527	20.5	--	--	184.9	--	--	1.5	--	--
AMCORN PSX6363	20.6	--	--	123.7	--	--	2.2	--	--
CALLAHAN C748	20.7	--	--	174.0	--	--	2.4	--	--
GREAT LAKES GL541	20.8	--	--	178.6	--	--	3.3	--	--
SEEDEX 1035	20.8	--	--	172.1	--	--	1.9	--	--
AMCORN PSX7450	20.8	20	--	177.1	179	--	2.1	2	--
PROVICO 811	20.9	--	--	173.6	--	--	1.4	--	--
MAUMEE VALLEY MV727	20.9	--	--	172.4	--	--	2.9	--	--
MAUMEE VALLEY MV711	21.0	--	--	169.6	--	--	5.1	--	--
GARST 8505	21.0	--	--	163.6	--	--	1.3	--	--
GARST 8574	21.1	--	--	176.4	--	--	1.6	--	--
*TERRA TR1040	21.3	21	22	188.6	165	156	2.3	2	2
ASGROW RX626	21.4	21	21	158.4	155	146	1.8	2	1
RENK RK702	21.6	20	--	153.1	156	--	2.6	1	--
RUPP XR2566	21.6	--	--	148.8	--	--	1.4	--	--
GRIES GSF-4460	21.7	21	--	168.9	151	--	5.9	4	--
*PIONEER 3429	21.7	21	--	195.0	183	--	1.8	2	--
*COUNTRYMARK C565X	21.8	22	22	185.4	171	160	4.8	4	3
GREAT LAKES GL582	21.9	21	22	180.7	177	179	4.6	3	3
GUTWEIN 2412	21.9	--	--	158.1	--	--	2.4	--	--
DAIRYLAND DX1106	21.9	--	--	156.0	--	--	1.3	--	--
*ANDERSONS PSX370	21.9	--	--	195.1	--	--	3.0	--	--

(continued below)

LATE TRIAL
 (109 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
JACQUES 6770	22.0	21	--	164.5	168	--	1.8	2	--
DYNAGRO 5410	22.4	--	--	167.6	--	--	3.8	--	--
BLANEY B607WX	22.6	--	--	176.7	--	--	7.0	--	--
SEEDEX 1090	22.7	--	--	192.6	--	--	3.5	--	--
RENK RK721	22.8	22	23	196.0	185	170	1.9	1	1
RENK RK64	22.9	22	22	177.7	171	164	5.7	4	3
*ASGROW RX706	23.0	22	--	196.4	182	--	3.3	3	--
TERRA TR1060	23.1	22	23	192.0	173	165	5.4	3	3
*MAUMEE VALLEY MV819	23.3	--	--	199.3	--	--	2.7	--	--
*GOLDEN HARVEST H-2525	23.3	22	23	196.4	193	184	2.5	2	3
CARGILL SX269	23.4	22	23	185.9	192	183	3.0	4	3
PIONEER 3379	23.4	22	23	179.8	185	182	1.6	1	1
MAUMEE VALLEY MV812	23.5	22	23	177.6	180	175	6.9	4	3
CROW'S 488	23.6	22	23	189.0	179	174	3.1	3	2
AMCORN PSX9292	23.6	23	--	182.3	173	--	4.4	4	--
GUTWEIN 2484	23.8	--	--	191.5	--	--	2.6	--	--
*DYNAGRO 5470	23.8	--	--	199.0	--	--	1.5	--	--
FUNK'S G-BRAND 4472	23.9	--	--	180.1	--	--	1.7	--	--
SUPER CROST 4877	23.9	23	25	193.6	192	187	2.7	3	2
CROW'S 449	24.0	24	--	175.3	176	--	2.5	2	--
BECK'S 62XA	24.0	23	24	172.7	176	173	5.9	4	3
GARNO S-103XX	24.1	--	--	191.3	--	--	4.6	--	--
PIONEER 3503	24.2	--	--	178.5	--	--	2.3	--	--
PRAIRIE STREAM SX420	24.2	--	--	192.9	--	--	1.5	--	--
*GOLDEN HARVEST H-2532	24.2	23	23	206.0	196	193	3.0	3	2
FUNK'S G-BRAND 4485	24.3	23	24	166.4	163	158	1.2	2	2
CARGILL 6227	24.3	23	23	191.0	180	173	2.4	2	2
ANDERSONS PSX405	24.3	--	--	184.0	--	--	3.4	--	--
BECK'S 66X	24.3	24	24	184.4	175	175	5.7	4	3
ASGROW RX727	24.4	--	--	173.5	--	--	1.7	--	--
MAUMEE VALLEY MV851	24.6	23	24	166.1	162	159	2.1	4	3
PIONEER 3343	24.7	23	--	191.1	186	--	3.1	3	--
FUNK'S G-BRAND 4490	24.8	--	--	159.0	--	--	1.8	--	--
GARNO S-102XX	24.8	--	--	179.5	--	--	3.1	--	--
GUTWEIN 2605	24.8	--	--	174.6	--	--	2.1	--	--
*PIONEER X9628	24.9	--	--	197.0	--	--	2.1	--	--
GARST 8519	25.0	--	--	168.5	--	--	2.4	--	--
ASGROW RX746	25.1	24	24	166.4	160	152	2.1	2	2
GEN-TECH 1098	25.1	--	--	183.7	--	--	3.5	--	--
GREAT LAKES GL590	25.3	--	--	163.9	--	--	2.9	--	--
PRAIRIE STREAM EX475	25.3	--	--	176.7	--	--	2.5	--	--
PROVICO 920	25.4	--	--	171.4	--	--	3.8	--	--
CARGILL 6827	25.4	--	--	151.9	--	--	3.2	--	--
CROW'S 498	25.4	--	--	167.0	--	--	1.9	--	--
KING AGRO GG1012	25.4	24	24	177.7	161	166	2.0	3	2
NORTHROP KING N6560	25.5	--	--	171.7	--	--	3.4	--	--
PIONEER 3241	25.6	--	--	188.0	--	--	1.4	--	--
GREAT LAKES GL595	25.7	24	--	166.4	151	--	3.2	2	--
TOP FARM TFSX1112	25.8	--	--	159.3	--	--	2.8	--	--
CARGILL 6927	25.9	24	25	160.1	155	151	0.9	1	1
*CARGILL 7877	25.9	25	--	202.6	183	--	2.2	2	--
GOLDEN HARVEST H-2572	25.9	25	25	183.0	180	179	2.8	2	2
GOLDEN HARVEST H-2583	26.0	25	--	186.1	184	--	2.8	2	--
JACQUES 7820	26.2	25	25	182.4	167	169	2.7	2	2
KING AGRO K647	26.2	25	25	190.4	160	163	3.5	2	2

(continued below)

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Table 4 (continued)
ZONE 1—SOUTHERN MICHIGAN—AVERAGE OF MONROE, BRANCH, & CASS COUNTY TRIALS
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)									
(108 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*BECK'S 54XA	21.9	22	--	190.9	197	--	2.3	1	--
*GOLDEN HARVEST H-2465	22.0	20	21	190.6	180	174	3.6	3	3
CALLAHAN C759	22.2	--	--	184.1	--	--	0.6	--	--
*PIONEER 3417	22.3	--	--	197.3	--	--	1.1	--	--
*PROVICO 880	22.3	--	--	190.3	--	--	2.6	--	--
DEKALB DK550	22.4	--	--	172.1	--	--	1.3	--	--
PIONEER X9514	22.4	--	--	172.4	--	--	2.2	--	--
MAUMEE VALLEY MV762	22.5	21	22	172.7	170	161	5.0	4	3
GARNO S-101XX	22.7	--	--	172.1	--	--	2.9	--	--
COUNTRYMARK C660X	22.7	22	23	175.4	177	166	1.9	2	2
*RUPP XR1739	22.7	22	23	187.5	176	170	2.9	2	2
GRIES GSF-X580	22.8	--	--	181.2	--	--	5.4	--	--
NORTHRUP KING N633D	22.9	--	--	182.9	--	--	3.5	--	--
PROVICO 850	23.0	--	--	181.1	--	--	2.5	--	--
LEADER SX576	23.1	--	--	179.0	--	--	2.4	--	--
DAIRYLAND DX1110	23.2	23	--	177.2	174	--	1.7	1	--
KING AGRO GG1008	23.4	--	--	184.7	--	--	4.5	--	--
*CALLAHAN C764	23.4	23	23	191.9	165	165	2.1	3	2
ANDERSONS PSX380	23.5	22	--	167.5	170	--	4.4	3	--
CALLAHAN C765	23.6	--	--	157.1	--	--	2.9	--	--
GREAT LAKES GL579	23.8	22	23	169.7	160	160	6.0	3	2
SEDEX 1085	24.1	--	--	170.6	--	--	0.9	--	--
LEADER SX574	24.8	22	24	179.7	172	171	3.5	2	2
BECK'S 57X	25.0	--	--	173.1	--	--	3.5	--	--
AVERAGE	21.0	21	21	169.4	169	160	3.2	3	2
RANGE	16.6	17	18	123.7	150	142	0.6	1	1
	25.0	23	24	197.3	197	179	7.3	4	3
LEAST SIGNIFICANT DIFFERENCE	1.7			16.0					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

LATE TRIAL (continued)									
(109 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*CARGILL 7993	26.2	25	25	197.6	184	181	1.5	1	1
RUPP XR1829	26.2	25	--	181.1	163	--	3.2	3	--
TERRA TR1120	26.3	25	25	186.2	172	169	3.9	3	2
GARST 8344	26.4	--	--	187.4	--	--	0.9	--	--
BECK'S 63X	26.4	25	25	184.5	189	189	2.4	2	2
*GREAT LAKES GL599	26.5	25	26	200.9	173	168	2.3	2	2
NORTHRUP KING PX9540	26.7	25	25	182.0	180	176	2.8	3	2
PROVICO 970	26.7	--	--	188.2	--	--	3.4	--	--
RENK RK803	26.7	24	--	156.1	160	--	1.7	2	--
DEKALB DK636	26.9	25	--	193.4	173	--	1.7	2	--
JACQUES 7910	27.0	--	--	167.8	--	--	3.7	--	--
PIONEER 3245	27.0	--	--	192.3	--	--	2.5	--	--
BLANEY B702	27.2	25	--	175.3	177	--	3.0	2	--
RENK RK76	27.2	25	25	194.3	189	183	2.2	2	2
FUNK'S G-BRAND 4530	27.3	--	--	177.1	--	--	2.2	--	--
CARGILL 8027	27.3	26	--	187.0	181	--	2.1	2	--
DAIRYLAND DX1117	27.5	26	--	174.9	166	--	2.9	3	--
BLANEY B702WX	27.6	--	--	191.7	--	--	2.2	--	--
BECK'S 74X	28.5	--	--	191.2	--	--	3.0	--	--
AVERAGE	25.0	24	24	181.7	175	173	2.9	2	2
RANGE	22.0	21	22	151.9	151	151	0.9	1	1
	28.5	26	26	206.0	196	193	7.0	4	3
LEAST SIGNIFICANT DIFFERENCE	1.3			14.7					
*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990									

Table 5
ZONE 2—SOUTH CENTRAL MICHIGAN—KENT COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (104 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
NORTHROP KING N3624	16.7	--	--	159.3	--	--	0.0	--	--
ASGROW RX337	16.7	--	--	141.3	--	--	4.2	--	--
ASGROW RX406	17.5	20	20	160.4	162	135	1.3	2	4
DEKALB DK451	18.3	--	--	152.7	--	--	7.9	--	--
WOLVERINE W156	18.7	20	21	169.7	164	144	5.1	4	4
*GOLDEN HARVEST H-2331	18.8	20	--	197.2	174	--	1.8	1	--
GREAT LAKES GL446	18.9	--	--	172.4	--	--	4.9	--	--
BETAGOLD KATRINA	19.1	--	--	168.4	--	--	4.3	--	--
DAIRYLAND DX1100	19.3	--	--	162.7	--	--	2.0	--	--
*DEKALB DK485	19.4	--	--	202.4	--	--	0.7	--	--
ASGROW RX409	19.4	--	--	181.8	--	--	0.0	--	--
GREAT LAKES GL459	19.5	--	--	183.9	--	--	2.9	--	--
NORTHROP KING N4428	19.5	--	--	153.7	--	--	3.0	--	--
TOP FARM TFSX1101	19.7	--	--	165.9	--	--	1.9	--	--
GOLDEN HARVEST H-2343	19.7	--	--	175.9	--	--	6.5	--	--
*DEKALB DK524	19.8	--	--	199.2	--	--	0.6	--	--
*BLANEY B505	19.9	21	--	191.9	164	--	0.7	2	--
*PIONEER 3718	19.9	20	--	193.5	172	--	2.8	2	--
ASGROW RX469	19.9	--	--	143.5	--	--	1.8	--	--
TOP FARM TFSX1102	20.0	--	--	134.2	--	--	4.7	--	--
COUNTRYMARK C434X	20.2	--	--	167.7	--	--	1.9	--	--
MAUMEE VALLEY MV526	20.2	--	--	158.6	--	--	2.0	--	--
BLANEY B405	20.3	21	--	164.9	157	--	0.6	2	--
TERRA TR1010	20.3	21	--	154.5	155	--	1.7	1	--
AMCORN PSX5555	20.3	21	22	184.9	169	154	2.4	3	3
PIONEER 3733	20.4	--	--	183.2	--	--	1.7	--	--
PIONEER 3751	20.4	22	22	171.2	172	159	2.6	2	1
NORTHROP KING N4545	20.5	22	22	173.7	158	145	1.4	1	1
PROVICO 751	20.5	--	--	176.9	--	--	2.9	--	--
TERRA TR1020	20.5	--	--	155.7	--	--	2.2	--	--
RUPP XR1527	20.5	--	--	154.2	--	--	3.1	--	--
AMCORN PSX6363	20.5	--	--	153.9	--	--	0.0	--	--
DAIRYLAND DX1103	20.6	22	22	172.0	150	142	1.2	1	1
*PIONEER 3573	20.7	21	--	209.0	190	--	0.0	0	--
*SUPER CROST 2000	20.8	--	--	214.4	--	--	4.1	--	--
*ASGROW RX578	20.8	22	23	187.7	183	152	1.4	2	2
GARST 8599	20.9	--	--	160.3	--	--	3.2	--	--
RUPP XR1626	20.9	--	--	152.9	--	--	0.0	--	--
GOLDEN HARVEST H-2404	20.9	22	23	170.1	159	140	0.7	2	1
DYNAGRO 5312	21.0	--	--	156.7	--	--	4.3	--	--
SEDEX 1259	21.1	--	--	156.5	--	--	4.1	--	--
KING AGRO K499	21.1	21	--	172.2	166	--	3.1	3	--
GARST 8708	21.1	--	--	158.1	--	--	1.7	--	--
*GOLDEN HARVEST H-2410	21.1	22	22	207.4	185	159	7.9	5	5
TOP FARM TFSX1103	21.2	--	--	175.0	--	--	1.9	--	--
WOLVERINE W158	21.3	--	--	169.0	--	--	2.9	--	--
*ASGROW RX626	21.3	23	23	197.3	171	145	1.5	1	1
MAUMEE VALLEY MV630	21.3	21	22	154.4	151	131	2.4	1	1
TOP FARM TFSX1105	21.3	--	--	156.8	--	--	1.3	--	--
PICKSEED 5577	21.3	--	--	154.5	--	--	0.0	--	--
GUTWEIN 2258	21.4	--	--	145.7	--	--	2.6	--	--
PROVICO 710	21.5	--	--	165.1	--	--	4.0	--	--
CALLAHAN C743	21.7	--	--	148.5	--	--	5.3	--	--
*DEKALB DK535	21.8	22	22	203.1	193	174	2.4	1	2
*GREAT LAKES GL566	21.9	--	--	208.8	--	--	0.7	--	--

(continued below)

LATE TRIAL (105 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
PICKSEED 71-309	19.4	--	--	158.3	--	--	1.0	--	--
CROW'S 227	19.6	21	--	182.2	165	--	0.6	1	--
RENK RK646	19.9	--	--	168.0	--	--	2.1	--	--
CROW'S 237	20.1	--	--	174.3	--	--	2.5	--	--
CROW'S 210	20.2	21	22	181.4	166	149	0.6	1	3
JACQUES 5170	20.5	--	--	176.4	--	--	1.2	--	--
BETAGOLD HANNA	20.6	--	--	164.6	--	--	0.7	--	--
PIONEER 3475	20.7	22	22	168.2	164	150	0.8	1	1
AMCORN PSX8181	20.7	--	--	183.8	--	--	1.6	--	--
PIONEER X9514	20.8	--	--	188.0	--	--	0.0	--	--
DYNAGRO 5351	20.9	--	--	148.8	--	--	2.5	--	--
BETAGOLD MARIA	20.9	--	--	203.5	--	--	1.3	--	--
PICKSEED 71-305	20.9	--	--	168.3	--	--	0.7	--	--
*CARGILL 5327	21.0	--	--	205.6	--	--	1.4	--	--
FUNK'S G-BRAND 4385	21.4	22	--	179.1	184	--	3.6	2	--
GOLDEN HARVEST H-2438	21.4	22	23	178.8	167	153	0.7	0	0
CALLAHAN C748	21.4	--	--	201.6	--	--	1.4	--	--
MAUMEE VALLEY MV727	21.5	--	--	184.6	--	--	1.6	--	--
KING AGRO GG1007	21.5	22	22	163.8	167	149	1.7	1	5
FUNK'S G-BRAND 4393	21.6	22	--	161.1	167	--	1.8	4	--
MAUMEE VALLEY MV711	21.6	--	--	204.3	--	--	1.3	--	--
RENK RK702	21.7	23	--	170.3	150	--	0.7	1	--
*SUPER CROST 2979	21.8	23	--	213.5	203	--	0.0	2	--
*KING AGRO K5574	21.9	23	23	205.5	177	166	1.4	1	4
GARST 8574	21.9	--	--	189.6	--	--	2.4	--	--
DEKALB DK550	22.0	--	--	203.2	--	--	0.7	--	--
JACQUES 6770	22.1	23	--	169.6	180	--	1.7	3	--
PIONEER 3527	22.1	--	--	201.3	--	--	1.5	--	--
*PROVICO 880	22.2	--	--	205.7	--	--	1.9	--	--
NORTHROP KING S5340	22.3	--	--	147.7	--	--	5.3	--	--
GRIES GSF-X580	22.3	--	--	196.1	--	--	4.8	--	--
PROVICO 810	22.3	--	--	184.5	--	--	0.0	--	--
CROW'S 380	22.3	22	--	175.0	164	--	1.4	2	--
GOLDEN HARVEST H-2465	22.3	--	--	188.0	--	--	2.6	--	--
DYNAGRO 5410	22.6	--	--	189.1	--	--	2.1	--	--
BLANEY B607	22.7	23	--	195.8	175	--	2.1	1	--
PIONEER 3429	22.8	23	--	184.6	168	--	1.6	1	--
MAIZEX MX83	22.8	--	--	191.7	--	--	1.2	--	--
PROVICO 811	22.9	--	--	171.5	--	--	1.8	--	--
GUTWEIN 2412	23.0	--	--	188.9	--	--	2.7	--	--
PIONEER 3417	23.0	--	--	189.6	--	--	1.7	--	--
MAUMEE VALLEY MV812	23.0	24	25	184.1	175	157	1.5	2	2
ANDERSONS PSX360	23.0	23	--	166.7	156	--	0.0	1	--
COUNTRYMARK C565X	23.1	--	--	187.2	--	--	0.0	--	--
RENK RK721	23.2	24	--	202.4	182	--	2.7	2	--
*CROW'S 449	23.2	--	--	210.5	--	--	1.3	--	--
GREAT LAKES GL579	23.3	--	--	195.8	--	--	4.1	--	--
RENK RK64	23.3	23	23	187.9	176	152	1.9	2	4
ANDERSONS PSX345	23.3	--	--	170.9	--	--	2.4	--	--
TERRA TR1040	23.3	23	--	183.4	186	--	1.3	1	--
MAUMEE VALLEY MV762	23.5	23	24	164.0	172	161	2.0	2	3
CARGILL 6127	23.6	--	--	171.6	--	--	0.0	--	--
CALLAHAN C764	23.7	--	--	187.5	--	--	2.1	--	--
*CARGILL SX269	23.8	--	--	208.6	--	--	1.4	--	--
SEDEX 1090	24.2	--	--	188.5	--	--	2.4	--	--

(continued below)

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Table 5 (continued)
ZONE 2—SOUTH CENTRAL MICHIGAN—KENT COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)									
(104 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
MAIZEX MX101	21.9	--	--	161.3	--	--	1.4	--	--
GREAT LAKES GL482	22.0	23	23	152.9	167	150	1.4	1	2
GRIES GSF-4460	22.2	23	--	159.1	150	--	3.5	2	--
GUTWEIN 2191	22.2	--	--	150.2	--	--	5.2	--	--
*CARGILL 4327	22.2	--	--	188.6	--	--	5.0	--	--
DAIRYLAND DX1204	22.3	--	--	144.2	--	--	1.9	--	--
GREAT LAKES GL509	22.5	23	23	182.6	154	149	3.1	3	3
KING AGRO K470	22.8	--	--	166.7	--	--	1.4	--	--
RUPP XR2566	22.8	--	--	151.2	--	--	3.1	--	--
SEDEX 1035	23.0	--	--	182.4	--	--	1.9	--	--
MAIZEX MX102	23.3	--	--	155.9	--	--	2.6	--	--
GREAT LAKES GL541	23.6	--	--	161.4	--	--	1.9	--	--
AVERAGE	20.6	21	22	169.6	167	148	2.6	2	2
RANGE	16.7	20	20	134.2	150	131	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	23.6	23	23	214.4	193	174	7.9	5	5
LEAST SIGNIFICANT DIFFERENCE	1.3			16.8					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

LATE TRIAL (continued)									
(105 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*WOLVERINE W167	24.4	--	--	208.3	--	--	0.7	--	--
*FUNK'S G-BRAND 4450	24.6	--	--	221.0	--	--	0.0	--	--
PIONEER 3503	24.8	--	--	169.5	--	--	0.8	--	--
ANDERSONS PSX370	24.8	26	--	194.4	194	--	0.0	0	--
TERRA TR1060	24.9	25	--	188.2	182	--	0.7	0	--
*MAUMEE VALLEY MV819	25.0	--	--	219.4	--	--	1.3	--	--
GREAT LAKES GL582	25.2	25	25	200.7	189	175	1.4	2	1
AMCORN PSX9292	25.2	--	--	168.5	--	--	0.7	--	--
*ASGROW RX706	25.3	26	--	211.2	199	--	0.0	0	--
CALLAHAN C759	25.3	--	--	173.0	--	--	1.5	--	--
DAIRYLAND DX1110	25.4	26	--	200.6	179	--	1.6	2	--
*NORTHROP KING N6330	25.5	--	--	207.2	--	--	2.8	--	--
PROVICO 850	25.5	--	--	175.2	--	--	2.5	--	--
CARGILL 6227	26.0	26	26	185.7	173	158	0.8	1	2
BETAGOLD MARTA	26.3	--	--	178.4	--	--	4.4	--	--
KING AGRO GG1008	27.7	--	--	189.2	--	--	1.3	--	--
JACQUES 7820	28.6	--	--	170.0	--	--	0.7	--	--
TERRA TR1120	28.8	28	--	184.4	186	--	2.1	1	--
BLANEY B702	28.9	--	--	181.0	--	--	0.7	--	--
AVERAGE	23.0	23	23	185.7	176	157	1.5	1	2
RANGE	19.4	21	22	147.7	150	149	0.0	0	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.9	28	26	221.0	203	175	5.3	4	5
LEAST SIGNIFICANT DIFFERENCE	1.6			19.7					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

	1990	1989	1988
PLANTED	MAY 7	MAY 9	MAY 4
HARVESTED	NOVEMBER 15	OCTOBER 24	OCTOBER 20
SOIL TYPE	BELLEVILLE LOAM	BELLEVILLE LOAM	BELLEVILLE LOAM
PREVIOUS CROP	WHEAT/SOYBEANS	CORN	ALFALFA
POPULATION	21,400	18,100	20,900
ROWS	30"	30"	30"
FERTILIZER	152-0-120	100-0-0 + 5 TON MANURE	33-31-0 + MANURE
SOIL TEST: pH	6.3	6.4	6.7
P	79 (HIGH)	141 (VERY HIGH)	140 (VERY HIGH)
K	400 (VERY HIGH)	613 (VERY HIGH)	400 (VERY HIGH)

FARM COOPERATOR: Gerald Kayser, Caledonia

EXTENSION AGRICULTURAL AGENT: William Steenwyk, Grand Rapids
 COUNTY EXTENSION DIRECTOR: William Harrison (1990), Grand Rapids
 Lyman Baker (1989, 1988), Grand Rapids

Table 6
ZONE 2—SOUTH CENTRAL MICHIGAN—INGHAM COUNTY TRIAL—GRAIN
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL
 (104 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
NORTHROP KING N3624	17.0	--	--	171.8	--	--	2.5	--	--
ASGROW RX406	17.0	18	21	152.2	145	136	1.3	1	1
ASGROW RX337	17.0	--	--	122.4	--	--	14.1	--	--
PIONEER 3751	17.5	21	22	162.5	133	130	2.9	10	7
GREAT LAKES GL446	17.9	--	--	156.8	--	--	4.2	--	--
ASGROW RX409	17.9	--	--	151.2	--	--	1.5	--	--
*GOLDEN HARVEST H-2331	18.2	20	--	191.4	177	--	3.7	3	--
DAIRYLAND DX1100	18.8	--	--	155.6	--	--	1.9	--	--
DEKALB DK451	19.0	--	--	157.6	--	--	3.4	--	--
GOLDEN HARVEST H-2343	19.2	--	--	168.3	--	--	3.5	--	--
DEKALB DK485	19.7	22	--	161.3	152	--	1.9	3	--
TERRA TR1020	19.7	--	--	160.3	--	--	6.1	--	--
TOP FARM TFSX1101	19.8	--	--	154.0	--	--	6.9	--	--
WOLVERINE W158	19.9	--	--	152.7	--	--	4.0	--	--
WOLVERINE W156	19.9	--	--	167.2	--	--	4.7	--	--
DYNAGRO 5312	20.0	--	--	160.3	--	--	5.0	--	--
TOP FARM TFSX1102	20.1	--	--	162.5	--	--	11.0	--	--
MAUMEE VALLEY MV526	20.2	--	--	161.7	--	--	7.2	--	--
*AMCORN PSX5555	20.4	23	24	173.1	148	137	3.8	7	5
ASGROW RX469	20.5	--	--	141.2	--	--	5.6	--	--
*PIONEER 3733	20.6	--	--	175.7	--	--	2.6	--	--
TERRA TR1010	20.6	--	--	153.5	--	--	12.2	--	--
COUNTRYMARK C434X	20.7	22	--	150.2	143	--	5.2	3	--
BETAGOLD KATRINA	20.8	--	--	153.9	--	--	3.1	--	--
PICKSEED 5577	20.9	--	--	144.0	--	--	2.2	--	--
*SUPER CROST 2000	21.0	--	--	183.1	--	--	4.7	--	--
*GREAT LAKES GL482	21.0	23	24	176.3	156	149	4.7	6	4
GARST 870B	21.0	--	--	166.7	--	--	7.7	--	--
BLANEY B405	21.2	--	--	138.4	--	--	4.7	--	--
*KING AGRO K499	21.2	23	--	173.4	172	--	9.8	6	--
GOLDEN HARVEST H-2410	21.2	23	24	169.8	170	154	6.8	4	3
*DEKALB DK524	21.3	24	25	189.3	181	160	3.8	3	2
NORTHROP KING N4428	21.3	--	--	158.6	--	--	1.4	--	--
GARST 8599	21.3	--	--	164.6	--	--	3.1	--	--
RUPP XR1527	21.3	23	23	167.8	160	156	4.1	4	2
MAUMEE VALLEY MV630	21.4	22	23	164.2	160	148	5.0	4	3
GOLDEN HARVEST H-2404	21.4	22	24	158.1	150	137	1.7	4	3
BLANEY B505	21.5	--	--	163.1	--	--	3.3	--	--
*PIONEER 3718	21.5	23	--	182.3	179	--	2.5	3	--
TOP FARM TFSX1103	21.6	--	--	154.6	--	--	5.0	--	--
GUTWEIN 2191	21.7	--	--	168.8	--	--	3.8	--	--
MAIZEX MX101	21.7	--	--	162.8	--	--	11.9	--	--
CALLAHAN C743	21.7	--	--	169.2	--	--	5.0	--	--
KING AGRO K470	21.8	--	--	171.8	--	--	7.6	--	--
GREAT LAKES GL459	22.0	--	--	159.8	--	--	11.9	--	--
PROVICO 710	22.0	--	--	171.8	--	--	4.9	--	--
*CARGILL 4327	22.1	--	--	190.2	--	--	5.3	--	--
*PIONEER 3573	22.2	24	--	190.2	180	--	1.9	4	--
MAIZEX MX102	22.2	--	--	167.3	--	--	5.8	--	--
DAIRYLAND DX1103	22.2	24	25	172.1	161	147	5.3	5	3
*DEKALB DK535	22.3	24	25	196.6	187	169	1.3	3	2
*NORTHROP KING N4545	22.3	25	25	173.1	164	154	2.6	2	2
*GREAT LAKES GL566	22.4	--	--	177.0	--	--	6.4	--	--
*GREAT LAKES GL509	22.5	25	--	182.0	161	--	6.3	5	--
*SEDEX 1259	22.7	--	--	186.6	--	--	2.5	--	--

(continued below)

LATE TRIAL
 (105 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
CROW'S 237	22.2	--	--	166.3	--	--	3.3	--	--
JACQUES 5170	22.4	--	--	134.3	--	--	0.0	--	--
RENK RK646	22.5	--	--	153.0	--	--	1.5	--	--
PIONEER 3475	22.8	25	25	185.5	169	159	1.3	3	3
PICKSEED 71-309	22.9	--	--	154.8	--	--	0.8	--	--
BETAGOLD HANNA	23.1	24	24	155.3	149	142	4.5	3	2
PICKSEED 71-305	23.7	--	--	158.4	--	--	3.5	--	--
CROW'S 210	23.8	--	--	169.5	--	--	5.6	--	--
CROW'S 227	24.0	--	--	168.7	--	--	3.2	--	--
FUNK'S G-BRAND 4385	24.2	26	--	169.8	167	--	1.2	1	--
*AMCORN PSX8181	24.3	--	--	191.1	--	--	1.3	--	--
FUNK'S G-BRAND 4393	24.5	26	--	177.0	167	--	0.6	1	--
*CARGILL 5327	24.6	--	--	194.8	--	--	2.5	--	--
BETAGOLD MARIA	24.7	26	26	170.8	171	156	3.9	3	2
GOLDEN HARVEST H-2438	25.0	26	27	168.5	167	148	4.0	4	3
*PIONEER 3527	25.1	--	--	207.2	--	--	0.6	--	--
DYNAGRO 5351	25.1	--	--	158.8	--	--	2.1	--	--
PROVICO 811	25.3	--	--	163.4	--	--	2.0	--	--
CARGILL 6127	25.4	--	--	173.7	--	--	7.7	--	--
SUPER CROST 2979	25.5	--	--	170.2	--	--	5.7	--	--
TERRA TR1040	25.7	--	--	179.2	--	--	4.6	--	--
MAUMEE VALLEY MV727	26.0	--	--	169.5	--	--	4.5	--	--
*GOLDEN HARVEST H-2465	26.0	27	27	186.8	172	155	5.5	3	3
DEKALB DK550	26.1	--	--	178.2	--	--	3.6	--	--
GRIES GSF-X580	26.1	--	--	178.1	--	--	9.3	--	--
KING AGRO GG1007	26.1	27	27	175.1	162	151	6.8	5	3
JACQUES 6770	26.4	27	27	156.0	151	140	1.3	2	1
GREAT LAKES GL579	26.5	27	27	186.5	171	158	4.9	3	2
MAUMEE VALLEY MV762	26.5	27	27	173.3	179	157	3.9	2	2
CALLAHAN C748	26.5	28	28	172.1	163	153	2.4	2	2
RENK RK702	26.6	28	--	139.7	149	--	1.3	1	--
KING AGRO K5574	26.7	26	27	175.6	167	156	9.1	6	4
ANDERSONS PSX360	26.7	27	--	180.7	177	--	5.7	5	--
NORTHROP KING S5340	26.8	--	--	183.0	--	--	7.2	--	--
BLANEY B607	26.8	27	--	163.6	168	--	7.9	6	--
*PIONEER X9514	26.8	--	--	190.6	--	--	1.3	--	--
CROW'S 380	26.8	27	--	165.5	151	--	7.7	5	--
CROW'S 449	26.8	30	--	157.4	148	--	1.8	2	--
PIONEER 3503	26.9	--	--	175.9	--	--	0.7	--	--
*PIONEER 3429	27.0	29	--	192.6	169	--	1.2	1	--
ANDERSONS PSX345	27.1	--	--	166.8	--	--	1.9	--	--
MAIZEX MX83	27.2	--	--	161.7	--	--	5.6	--	--
GARST 8574	27.3	--	--	162.2	--	--	3.1	--	--
*PIONEER 3417	27.4	--	--	201.3	--	--	0.7	--	--
RENK RK64	27.4	28	28	167.3	157	145	6.4	5	4
PROVICO 810	27.5	--	--	181.2	--	--	5.0	--	--
*TERRA TR1120	27.6	--	--	191.6	--	--	1.9	--	--
COUNTRYMARK C565X	27.8	28	27	171.2	177	157	3.9	4	3
MAUMEE VALLEY MV711	27.8	--	--	159.0	--	--	5.4	--	--
SEDEX 1090	27.9	--	--	179.8	--	--	3.8	--	--
MAUMEE VALLEY MV812	28.0	30	30	178.1	170	160	2.7	2	2
*NORTHROP KING N6330	28.1	--	--	196.9	--	--	2.0	--	--
CALLAHAN C764	28.1	29	29	177.1	158	148	2.6	2	1
WOLVERINE W167	28.2	--	--	185.8	--	--	6.0	--	--
GUTWEIN 2412	28.2	--	--	172.9	--	--	1.4	--	--

(continued below)

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Table 6 (continued)
ZONE 2—SOUTH CENTRAL MICHIGAN—INGHAM COUNTY TRIAL—GRAIN
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)									
(104 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
ASGROW RX578	22.9	25	25	168.2	165	154	2.0	2	2
RUPP XR1626	23.0	--	--	136.4	--	--	2.6	--	--
*SEDEX 1035	23.2	--	--	175.1	--	--	2.1	--	--
PROVICO 751	23.3	--	--	167.7	--	--	2.1	--	--
TOP FARM TFSX1105	23.5	--	--	133.8	--	--	5.2	--	--
GUTWEIN 2258	23.7	--	--	138.2	--	--	1.4	--	--
DAIRYLAND DX1204	23.7	--	--	139.4	--	--	5.2	--	--
GRIES GSF-4460	24.2	25	--	161.2	164	--	5.1	3	--
AMCORN PSX6363	24.5	--	--	131.5	--	--	2.3	--	--
*GREAT LAKES GL541	24.6	--	--	172.6	--	--	2.5	--	--
ASGROW RX626	25.4	28	28	161.6	155	148	1.3	2	1
RUPP XR2566	26.2	--	--	142.3	--	--	4.9	--	--
AVERAGE	21.3	23	24	163.3	162	149	4.6	4	3
RANGE	17.0	18	21	122.4	133	130	1.3	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	26.2	28	28	196.6	187	169	14.1	10	7
LEAST SIGNIFICANT DIFFERENCE	1.0			9.2					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

LATE TRIAL (continued)									
(105 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*MAUMEE VALLEY MV819	28.2	--	--	197.6	--	--	0.7	--	--
FUNK'S G-BRAND 4450	28.3	--	--	182.8	--	--	3.7	--	--
DYNAGRO 5410	28.4	--	--	163.3	--	--	2.2	--	--
CARGILL SX269	28.7	29	29	175.0	178	157	1.3	2	1
*RENK RK721	28.7	30	--	191.1	170	--	6.1	5	--
CALLAHAN C759	28.8	--	--	170.2	--	--	0.7	--	--
*CARGILL 6227	28.9	30	--	195.2	183	--	2.0	2	--
TERRA TR1060	29.1	--	--	173.3	--	--	2.7	--	--
*KING AGRO GG1008	29.2	--	--	190.1	--	--	0.7	--	--
*DAIRYLAND DX1110	29.3	30	--	188.8	178	--	1.2	1	--
*ASGROW RX706	29.4	30	--	192.1	164	--	5.0	3	--
AMCORN PSX9292	29.4	--	--	184.7	--	--	3.9	--	--
*GREAT LAKES GL582	29.5	31	30	194.2	171	155	3.8	2	2
*ANDERSONS PSX370	29.8	--	--	197.9	--	--	4.7	--	--
PROVICO 880	29.9	--	--	165.4	--	--	2.5	--	--
BETAGOLD MARTA	30.1	--	--	165.6	--	--	1.3	--	--
BLANEY B702	30.9	31	--	169.5	165	--	3.9	3	--
JACQUES 7820	30.9	--	--	176.9	--	--	4.6	--	--
PROVICO 850	31.3	--	--	176.4	--	--	3.6	--	--
AVERAGE	26.8	28	27	175.3	166	153	3.4	3	2
RANGE	22.2	24	24	134.3	148	140	0.0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	31.3	31	30	207.2	183	160	9.3	6	4
LEAST SIGNIFICANT DIFFERENCE	1.3			11.3					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

	1990	1989	1988
PLANTED	MAY 8	APRIL 27	MAY 3
HARVESTED	OCTOBER 29-30	OCTOBER 10	OCTOBER 6
SOIL TYPE	CAPAC LOAM	CAPAC LOAM	CAPAC LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	22,800	20,900	22,000
ROWS	30"	36"	36"
FERTILIZER	165-50-50	165-50-50	165-50-50
SOIL TEST: pH	6.1	6.1	6.1
P	93 (HIGH)	156 (VERY HIGH)	160 (VERY HIGH)
K	200 (MEDIUM)	228 (HIGH)	240 (HIGH)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

Table 7
ZONE 2—SOUTH CENTRAL MICHIGAN—SAGINAW COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL
 (104 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
ASGROW RX406	17.7	18	19	143.5	146	129	4.9	4	10
ASGROW RX337	17.9	--	--	115.4	--	--	10.2	--	--
ASGROW RX409	18.4	--	--	152.5	--	--	2.5	--	--
PIONEER 3751	18.6	18	19	156.9	156	132	6.3	4	4
DAIRYLAND DX1100	18.6	--	--	149.6	--	--	10.8	--	--
DEKALB DK485	18.7	--	--	163.6	--	--	4.8	--	--
*GOLDEN HARVEST H-2331	18.8	18	--	182.6	163	--	10.6	7	--
*NORTHROP KING N3624	18.9	--	--	175.8	--	--	1.8	--	--
COUNTRYMARK C434X	18.9	--	--	151.3	--	--	6.1	--	--
GOLDEN HARVEST H-2343	19.4	--	--	163.3	--	--	4.4	--	--
RUPP XR1527	19.8	20	20	153.0	140	123	4.9	5	6
BLANEY B405	20.2	20	--	154.3	158	--	4.1	4	--
WOLVERINE W158	20.2	--	--	133.4	--	--	8.7	--	--
TOP FARM TFSX1101	20.2	--	--	165.6	--	--	7.5	--	--
GREAT LAKES GL446	20.3	19	--	148.5	161	--	17.3	10	--
DYNAGRO 5312	20.3	--	--	145.7	--	--	5.7	--	--
MAUMEE VALLEY MV526	20.4	--	--	138.5	--	--	4.8	--	--
GOLDEN HARVEST H-2404	20.4	20	21	167.3	161	133	5.3	6	6
TERRA TR1020	20.5	--	--	153.2	--	--	2.9	--	--
TOP FARM TFSX1102	20.6	--	--	143.4	--	--	6.4	--	--
BETAGOLD KATRINA	20.7	--	--	148.5	--	--	2.6	--	--
PIONEER 3733	20.8	--	--	166.1	--	--	4.5	--	--
*DEKALB DK524	20.9	20	21	186.7	179	148	6.0	5	5
PICKSEED 5577	20.9	--	--	152.2	--	--	4.7	--	--
WOLVERINE W156	21.0	20	21	159.8	160	141	5.8	4	7
PIONEER 3718	21.0	20	--	166.0	164	--	4.9	5	--
GREAT LAKES GL541	21.1	--	--	165.9	--	--	1.2	--	--
RUPP XR1626	21.1	--	--	136.0	--	--	3.8	--	--
BLANEY B505	21.3	21	--	148.1	154	--	7.0	4	--
GREAT LAKES GL459	21.3	--	--	161.3	--	--	6.3	--	--
ASGROW RX469	21.3	--	--	152.4	--	--	4.4	--	--
GARST 8599	21.3	--	--	165.5	--	--	7.9	--	--
DAIRYLAND DX1103	21.3	21	21	147.0	151	134	9.8	6	6
*PIONEER 3573	21.4	20	--	184.2	176	--	5.5	5	--
ASGROW RX578	21.4	21	22	155.9	149	137	1.9	2	3
*CARGILL 4327	21.4	21	--	178.4	162	--	5.4	3	--
DAIRYLAND DX1204	21.4	--	--	141.1	--	--	1.9	--	--
GOLDEN HARVEST H-2410	21.4	21	22	168.3	161	139	5.2	7	10
AMCORN PSX6363	21.4	--	--	136.5	--	--	2.4	--	--
MAUMEE VALLEY MV630	21.5	21	22	137.3	134	117	5.0	4	5
DEKALB DK451	21.6	--	--	136.3	--	--	6.6	--	--
GUTWEIN 2258	21.7	--	--	151.2	--	--	4.2	--	--
TERRA TR1010	21.7	21	22	169.0	157	136	3.7	2	3
MAIZEX MX101	21.8	--	--	161.4	--	--	6.0	--	--
CALLAHAN C743	21.8	22	--	135.1	142	--	5.5	5	--
GARST 8708	21.9	22	22	164.9	159	134	6.8	5	7
*DEKALB DK535	22.0	21	22	182.6	168	143	5.3	4	5
*GREAT LAKES GL566	22.1	--	--	192.5	--	--	4.8	--	--
SEDEX 1035	22.1	23	--	167.5	149	--	3.1	2	--
SUPER CROST 2000	22.2	--	--	160.5	--	--	7.6	--	--
GREAT LAKES GL482	22.3	22	22	155.0	156	142	7.5	5	6
MAIZEX MX102	22.3	--	--	155.4	--	--	2.5	--	--
*KING AGRO K499	22.3	20	--	180.6	170	--	3.7	4	--
TOP FARM TFSX1103	22.3	--	--	147.2	--	--	6.4	--	--
AMCORN PSX5555	22.3	21	22	153.1	141	134	5.1	3	4

(continued below)

LATE TRIAL
 (105 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
JACQUES 5170	20.5	--	--	140.7	--	--	3.5	--	--
CROW'S 227	20.8	--	--	156.2	--	--	4.1	--	--
RENK RK646	21.1	--	--	142.2	--	--	2.9	--	--
PIONEER 3475	21.8	--	--	178.3	--	--	2.6	--	--
GARST 8574	21.8	--	--	158.1	--	--	2.4	--	--
GUTWEIN 2412	21.9	--	--	152.8	--	--	1.2	--	--
BETAGOLD HANNA	22.0	22	--	153.4	151	--	3.2	2	--
*PIONEER 3527	22.1	--	--	196.2	--	--	0.7	--	--
PICKSEED 71-305	22.2	--	--	162.9	--	--	3.5	--	--
DYNAGRO 5351	22.4	--	--	142.5	--	--	1.9	--	--
CROW'S 237	22.4	--	--	152.0	--	--	5.7	--	--
PROVICO 811	22.5	--	--	146.1	--	--	1.9	--	--
*GREAT LAKES GL579	22.7	22	23	188.3	167	149	3.6	2	4
CARGILL 5327	22.7	--	--	162.8	--	--	1.2	--	--
RENK RK64	22.7	23	23	175.2	162	148	4.2	7	6
PICKSEED 71-309	22.7	--	--	145.2	--	--	0.9	--	--
FUNK'S G-BRAND 4393	22.9	22	--	161.6	161	--	1.3	3	--
*BETAGOLD MARIA	22.9	--	--	183.5	--	--	3.4	--	--
AMCORN PSX8181	22.9	--	--	171.7	--	--	2.1	--	--
RENK RK702	23.0	--	--	138.9	--	--	4.6	--	--
CALLAHAN C748	23.0	23	23	157.4	159	148	2.9	3	3
*DEKALB DK550	23.1	--	--	181.0	--	--	3.6	--	--
PIONEER 3503	23.1	--	--	178.0	--	--	2.0	--	--
FUNK'S G-BRAND 4385	23.2	22	--	148.0	153	--	0.0	1	--
CROW'S 210	23.2	--	--	150.5	--	--	3.1	--	--
GRIES GSF-X580	23.4	--	--	178.0	--	--	5.2	--	--
WOLVERINE W167	23.4	24	--	174.5	159	--	4.7	4	--
PIONEER X9514	23.4	--	--	163.2	--	--	2.1	--	--
CROW'S 380	23.4	--	--	145.8	--	--	8.9	--	--
*NORTHROP KING S5340	23.5	23	23	181.5	173	154	5.5	4	5
SUPER CROST 2979	23.7	--	--	175.7	--	--	5.8	--	--
MAUMEE VALLEY MV711	23.8	--	--	156.2	--	--	3.7	--	--
BLANEY B607	23.9	23	--	178.8	169	--	9.5	7	--
GOLDEN HARVEST H-2438	23.9	22	22	141.7	151	131	5.6	4	11
TERRA TR1040	23.9	23	24	167.8	159	146	7.4	4	5
MAIZEX MX83	24.1	--	--	177.1	--	--	3.0	--	--
ANDERSONS PSX360	24.1	--	--	176.8	--	--	5.4	--	--
KING AGRO GG1007	24.1	23	24	179.5	160	145	11.4	7	6
*PIONEER 3429	24.2	22	--	195.9	176	--	1.3	1	--
PROVICO 810	24.2	--	--	177.2	--	--	2.3	--	--
*GOLDEN HARVEST H-2465	24.3	24	24	188.0	172	150	4.5	3	5
*KING AGRO K5574	24.4	23	23	189.3	173	159	3.5	3	5
ANDERSONS PSX345	24.4	--	--	164.1	--	--	5.9	--	--
*COUNTRYMARK C565X	24.5	--	--	182.3	--	--	6.0	--	--
DYNAGRO 5410	24.6	--	--	166.8	--	--	4.5	--	--
JACQUES 6770	24.7	23	24	150.4	146	132	3.1	4	4
*GREAT LAKES GL582	24.7	25	25	183.0	158	150	2.5	1	3
PIONEER 3417	24.7	--	--	170.3	--	--	1.3	--	--
MAUMEE VALLEY MV727	24.7	--	--	164.2	--	--	1.4	--	--
CARGILL 6127	24.8	23	24	161.7	164	145	2.8	3	3
MAUMEE VALLEY MV812	25.0	24	24	160.6	159	146	2.9	2	6
CROW'S 449	25.1	26	--	157.8	158	--	0.0	1	--
MAUMEE VALLEY MV762	25.2	24	24	138.4	149	141	2.5	3	4
CALLAHAN C764	25.2	25	25	165.4	145	139	4.6	4	5
TERRA TR1060	25.3	24	--	171.8	165	--	1.2	1	--

(continued below)

Table 7 (continued)
ZONE 2—SOUTH CENTRAL MICHIGAN—SAGINAW COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)
(104 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*ASGROW RX626	22.4	23	23	185.0	167	157	2.4	4	4
GUTWEIN 2191	22.5	--	--	159.9	--	--	6.3	--	--
SEDEX 1259	22.6	--	--	152.3	--	--	1.7	--	--
NORTHROP KING N4545	22.8	21	21	150.6	149	139	2.9	3	3
PROVICO 710	22.8	--	--	146.8	--	--	3.7	--	--
TOP FARM TFSX1105	22.8	--	--	150.6	--	--	0.0	--	--
NORTHROP KING N4428	22.9	--	--	152.3	--	--	3.1	--	--
GREAT LAKES GL509	23.0	22	22	158.6	145	132	5.1	3	4
GRIES GSF-4460	23.1	22	--	161.8	155	--	4.3	3	--
RUPP XR2566	23.6	--	--	144.5	--	--	2.7	--	--
*KING AGRO K470	23.7	--	--	178.0	--	--	3.7	--	--
PROVICO 751	24.0	--	--	151.3	--	--	3.5	--	--
AVERAGE	21.2	21	21	157.0	156	136	5.1	4	5
RANGE	17.7	18	19	115.4	134	117	0.0	2	3
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	24.0	23	23	192.5	179	157	17.3	10	10
LEAST SIGNIFICANT DIFFERENCE	1.7			14.6					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

LATE TRIAL (continued)
(105 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
NORTHROP KING N6330	25.4	--	--	178.0	--	--	3.7	--	--
*MAUMEE VALLEY MVB19	25.4	--	--	182.6	--	--	2.6	--	--
CARGILL 6227	25.4	--	--	177.2	--	--	5.3	--	--
ASGROW RX706	25.5	--	--	176.7	--	--	0.0	--	--
AMCORN PSX9292	25.6	--	--	173.8	--	--	1.8	--	--
PROVICO 880	25.7	--	--	178.0	--	--	2.5	--	--
*KING AGRO GG1008	25.8	--	--	183.3	--	--	3.8	--	--
*FUNK'S G-BRAND 4450	25.9	--	--	184.0	--	--	0.6	--	--
SEDEX 1090	25.9	--	--	179.4	--	--	1.9	--	--
CALLAHAN C759	25.9	27	27	160.0	136	134	2.4	2	2
RENK RK721	26.0	25	--	168.4	163	--	0.0	1	--
PROVICO 850	26.1	--	--	163.4	--	--	1.6	--	--
*CARGILL SX269	26.3	--	--	194.8	--	--	1.8	--	--
DAIRYLAND DX1110	26.5	26	--	170.0	156	--	2.7	3	--
*ANDERSONS PSX370	27.3	--	--	180.2	--	--	1.9	--	--
JACQUES 7820	27.8	--	--	173.3	--	--	6.0	--	--
BLANEY B702	28.0	--	--	172.1	--	--	3.1	--	--
TERRA TR1120	28.0	28	--	167.9	159	--	3.4	3	--
BETAGOLD MARTA	28.6	--	--	160.6	--	--	1.2	--	--
AVERAGE	24.2	24	24	168.0	159	145	3.3	3	5
RANGE	20.5	22	22	138.4	136	131	0.0	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.6	28	27	196.2	176	159	11.4	7	11
LEAST SIGNIFICANT DIFFERENCE	1.1			11.8					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

	1990	1989	1988
PLANTED	MAY 12	MAY 3	MAY 5
HARVESTED	NOVEMBER 9, 12	OCTOBER 30	OCTOBER 29
SOIL TYPE	CHARITY CLAY	BROOKSTON CLAY LOAM	PARKHILL LOAM
PREVIOUS CROP	DRY BEANS	SUGAR BEETS	SOYBEANS
POPULATION	23,200	19,100	21,800
ROWS	30"	28"	28"
FERTILIZER	21-7-14	235-60-50	116-52-52 + 1% ZINC
SOIL TEST: pH	7.6	7.1	7.0
P	128 (VERY HIGH)	75 (HIGH)	130 (VERY HIGH)
K	415 (VERY HIGH)	271 (HIGH)	259 (HIGH)

FARM COOPERATOR: Paul Horny, Saginaw Beet & Bean Research, Farm, Saginaw (1990)
 Stuart Reinbold, Reese (1989, 1988)

EXTENSION AGRICULTURAL AGENT: Steven Poindexter, Saginaw

Table 8
ZONE 2—SOUTH CENTRAL MICHIGAN—AVERAGE OF KENT, INGHAM, & SAGINAW COUNTY TRIALS
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (104 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2	3	1990	2	3	1990	2	3
ASGROW RX337	17.2	--	--	126.4	--	--	9.5	--	--
ASGROW RX406	17.4	18	20	152.0	151	134	2.5	2	5
NORTHROP KING N3624	17.5	--	--	169.0	--	--	1.4	--	--
ASGROW RX409	18.6	--	--	161.8	--	--	1.3	--	--
*GOLDEN HARVEST H-2331	18.6	19	--	190.4	171	--	5.4	4	--
PIONEER 3751	18.8	20	21	163.5	154	140	3.9	5	4
DAIRYLAND DX1100	18.9	--	--	156.0	--	--	4.9	--	--
GREAT LAKES GL446	19.0	18	--	159.2	166	--	8.8	5	--
DEKALB DK485	19.3	22	--	175.8	160	--	2.5	4	--
GOLDEN HARVEST H-2343	19.4	--	--	169.2	--	--	4.8	--	--
DEKALB DK451	19.6	--	--	148.9	--	--	6.0	--	--
WOLVERINE W156	19.9	20	21	165.6	162	143	5.2	4	5
COUNTRYMARK C434X	19.9	21	--	156.4	146	--	4.4	3	--
TOP FARM TFSX1101	19.9	--	--	161.8	--	--	5.4	--	--
BETAGOLD KATRINA	20.2	--	--	156.9	--	--	3.3	--	--
TERRA TR1020	20.2	--	--	156.4	--	--	3.7	--	--
TOP FARM TFSX1102	20.2	--	--	146.7	--	--	7.4	--	--
MAUMEE VALLEY MV526	20.3	--	--	152.9	--	--	4.7	--	--
DYNAGRO 5312	20.4	--	--	154.2	--	--	5.0	--	--
WOLVERINE W158	20.5	--	--	151.7	--	--	5.2	--	--
RUPP XR1527	20.5	21	22	158.3	149	139	4.0	4	4
BLANEY B405	20.6	21	--	152.5	154	--	3.1	3	--
PIONEER 3733	20.6	--	--	175.0	--	--	2.9	--	--
ASGROW RX469	20.6	--	--	145.7	--	--	3.9	--	--
*DEKALB DK524	20.7	22	22	191.7	182	154	3.5	3	4
*PIONEER 3718	20.8	21	--	180.6	171	--	3.4	3	--
BLANEY B505	20.9	21	--	167.7	158	--	3.7	3	--
GREAT LAKES GL459	20.9	--	--	168.3	--	--	7.0	--	--
TERRA TR1010	20.9	21	22	159.0	155	134	5.9	3	3
GOLDEN HARVEST H-2404	20.9	22	22	165.2	157	137	2.6	4	4
PICKSEED 5577	21.0	--	--	150.2	--	--	2.3	--	--
AMCORN PSX5555	21.0	22	23	170.4	153	141	3.8	5	4
NORTHROP KING N4428	21.2	--	--	154.5	--	--	2.5	--	--
GARST 8599	21.2	--	--	163.5	--	--	4.7	--	--
*GOLDEN HARVEST H-2410	21.2	22	22	181.8	172	151	6.6	5	6
*SUPER CROST 2000	21.3	--	--	186.0	--	--	5.5	--	--
GARST 8708	21.3	21	22	163.2	158	141	5.4	4	5
*PIONEER 3573	21.4	21	--	194.5	182	--	2.5	3	--
MAUMEE VALLEY MV630	21.4	22	22	152.0	148	132	4.1	3	3
DAIRYLAND DX1103	21.4	22	23	163.7	154	141	5.4	4	4
KING AGRO K499	21.5	21	--	175.4	169	--	5.5	4	--
ASGROW RX578	21.7	23	23	170.6	165	148	1.8	2	2
TOP FARM TFSX1103	21.7	--	--	158.9	--	--	4.4	--	--
RUPP XR1626	21.7	--	--	141.8	--	--	2.1	--	--
CALLAHAN C743	21.7	22	--	150.9	149	--	5.3	5	--
GREAT LAKES GL482	21.8	22	23	161.4	159	147	4.5	4	4
MAIZE MX101	21.8	--	--	161.8	--	--	6.4	--	--
NORTHROP KING N4545	21.9	23	23	165.8	157	146	2.3	2	2
*CARGILL 4327	21.9	21	--	185.7	165	--	5.2	3	--
*DEKALB DK535	22.0	22	23	194.1	183	162	3.0	3	3
*GREAT LAKES GL566	22.1	--	--	192.8	--	--	4.0	--	--
GUTWEIN 2191	22.1	--	--	159.6	--	--	5.1	--	--
SEEDEX 1259	22.1	--	--	165.1	--	--	2.8	--	--
PROVICO 710	22.1	--	--	161.2	--	--	4.2	--	--
AMCORN PSX6363	22.1	--	--	140.6	--	--	1.6	--	--

(continued below)

LATE TRIAL (105 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2	3	1990	2	3	1990	2	3
JACQUES 5170	21.1	--	--	150.5	--	--	1.6	--	--
RENK RK646	21.2	--	--	154.4	--	--	2.2	--	--
CROW'S 227	21.5	22	--	169.0	159	--	2.6	2	--
CROW'S 237	21.6	--	--	164.2	--	--	3.8	--	--
PICKSEED 71-309	21.7	--	--	152.8	--	--	0.9	--	--
PIONEER 3475	21.8	24	24	177.3	167	153	1.6	3	3
BETAGOLD HANNA	21.9	22	23	157.8	152	143	2.8	2	2
PICKSEED 71-305	22.3	--	--	163.2	--	--	2.6	--	--
CROW'S 210	22.4	22	23	167.1	158	144	3.1	2	4
AMCORN PSX8181	22.6	--	--	182.2	--	--	1.7	--	--
DYNAGRO 5351	22.8	--	--	150.0	--	--	2.2	--	--
BETAGOLD MARIA	22.8	25	26	185.9	179	161	2.9	3	2
CARGILL 5327	22.8	--	--	187.7	--	--	1.7	--	--
FUNK'S G-BRAND 4385	22.9	23	--	165.6	168	--	1.6	1	--
FUNK'S G-BRAND 4393	23.0	23	--	166.6	165	--	1.2	2	--
*PIONEER 3527	23.1	--	--	201.6	--	--	0.9	--	--
GOLDEN HARVEST H-2438	23.1	23	24	163.0	162	144	3.4	3	5
PROVICO 811	23.6	--	--	160.3	--	--	1.9	--	--
CALLAHAN C748	23.6	25	25	177.0	167	154	2.2	2	2
DEKALB DK550	23.7	--	--	187.5	--	--	2.6	--	--
SUPER CROST 2979	23.7	24	--	186.5	189	--	3.8	4	--
PIONEER X9514	23.7	--	--	180.6	--	--	1.1	--	--
GARST 8574	23.7	--	--	170.0	--	--	2.6	--	--
RENK RK702	23.8	25	--	149.6	147	--	2.2	2	--
GRIES GSF-X580	23.9	--	--	184.1	--	--	6.4	--	--
KING AGRO GG1007	23.9	24	24	172.8	163	148	6.6	4	5
MAUMEE VALLEY MV727	24.1	--	--	172.8	--	--	2.5	--	--
NORTHROP KING S5340	24.2	23	23	170.7	168	150	6.0	5	5
GREAT LAKES GL579	24.2	25	25	190.2	171	154	4.2	2	4
CROW'S 380	24.2	25	--	162.1	153	--	6.0	4	--
GOLDEN HARVEST H-2465	24.2	25	25	187.6	172	152	4.2	3	4
KING AGRO K5574	24.3	24	24	190.1	172	160	4.7	3	4
TERRA TR1040	24.3	24	24	176.8	173	155	4.4	2	4
JACQUES 6770	24.4	24	25	158.7	159	143	2.0	3	3
GUTWEIN 2412	24.4	--	--	171.5	--	--	1.8	--	--
MAUMEE VALLEY MV711	24.4	--	--	173.2	--	--	3.5	--	--
BLANEY B607	24.5	24	--	179.4	171	--	6.5	5	--
RENK RK64	24.5	25	25	176.8	165	149	4.2	5	5
CARGILL 6127	24.6	23	24	169.0	167	145	3.5	3	4
ANDERSONS PSX360	24.6	25	--	174.7	167	--	3.7	3	--
*PIONEER 3429	24.7	25	--	191.0	171	--	1.4	1	--
MAIZE MX83	24.7	--	--	176.8	--	--	3.3	--	--
PROVICO 810	24.7	--	--	181.0	--	--	2.4	--	--
PIONEER 3503	24.9	--	--	174.5	--	--	1.2	--	--
ANDERSONS PSX345	24.9	--	--	167.3	--	--	3.4	--	--
PIONEER 3417	25.0	--	--	187.1	--	--	1.2	--	--
CROW'S 449	25.0	28	--	175.2	162	--	1.0	2	--
COUNTRYMARK C565X	25.1	26	27	180.2	181	160	3.3	4	3
MAUMEE VALLEY MV762	25.1	25	25	158.6	167	153	2.8	3	3
DYNAGRO 5410	25.2	--	--	173.1	--	--	2.9	--	--
WOLVERINE W167	25.3	24	--	189.5	166	--	3.8	3	--
MAUMEE VALLEY MV812	25.3	26	26	174.3	168	154	2.4	2	3
CALLAHAN C764	25.7	27	27	176.7	154	145	3.1	3	3
PROVICO 880	25.9	--	--	183.0	--	--	2.3	--	--
SEEDEX 1090	26.0	--	--	182.6	--	--	2.7	--	--

(continued below)

Table 8 (continued)
ZONE 2—SOUTH CENTRAL MICHIGAN—AVERAGE OF KENT, INGHAM, & SAGINAW COUNTY TRIALS
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)
(104 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
GUTWEIN 2258	22.3	--	--	145.0	--	--	2.7	--	--
DAIRYLAND DX1204	22.5	--	--	141.6	--	--	3.0	--	--
TOP FARM TFSX1105	22.5	--	--	147.1	--	--	2.2	--	--
MAIZE MX102	22.6	--	--	159.5	--	--	3.6	--	--
PROVICO 751	22.6	--	--	165.3	--	--	2.8	--	--
GREAT LAKES GL509	22.7	23	23	174.4	153	143	4.8	3	4
SEDEX 1035	22.8	23	--	175.0	153	--	2.4	1	--
KING AGRO K470	22.8	--	--	172.2	--	--	4.2	--	--
*ASGROW RX626	23.0	24	25	181.3	164	150	1.7	2	2
GREAT LAKES GL541	23.1	--	--	166.6	--	--	1.9	--	--
GRIES GSF-4460	23.2	23	--	160.7	156	--	4.3	3	--
RUPP XR2566	24.2	--	--	146.0	--	--	3.6	--	--
AVERAGE	21.0	21	22	163.3	161	143	4.1	3	4
RANGE	17.2	18	20	126.4	146	132	1.3	1	2
	24.2	24	25	194.5	183	162	9.5	5	6
LEAST SIGNIFICANT DIFFERENCE	1.3			13.4					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

LATE TRIAL (continued)
(105 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
RENK RK721	26.0	27	--	187.3	172	--	2.9	2	--
*MAUMEE VALLEY MV819	26.2	--	--	199.9	--	--	1.5	--	--
*FUNK'S G-BRAND 4450	26.3	--	--	195.9	--	--	1.4	--	--
*NORTHROP KING N6330	26.3	--	--	194.0	--	--	2.8	--	--
*CARGILL SX269	26.3	28	28	192.8	187	163	1.5	2	2
TERRA TR1060	26.4	25	--	177.8	173	--	1.5	1	--
*GREAT LAKES GL582	26.5	27	27	192.6	173	160	2.6	2	2
*ASGROW RX706	26.7	28	--	193.3	177	--	1.7	1	--
AMCORN PSX9292	26.7	--	--	175.7	--	--	2.1	--	--
CALLAHAN C759	26.7	27	27	167.7	140	131	1.5	1	1
CARGILL 6227	26.8	28	27	186.0	176	158	2.7	2	3
DAIRYLAND DX1110	27.1	27	--	186.5	171	--	1.8	2	--
*ANDERSONS PSX370	27.3	27	--	190.8	192	--	2.2	2	--
PROVICO 850	27.6	--	--	171.7	--	--	2.6	--	--
KING AGRO GG1008	27.6	--	--	187.5	--	--	1.9	--	--
TERRA TR1120	28.1	28	--	181.3	175	--	2.5	2	--
BETAGOLD MARTA	28.3	--	--	168.2	--	--	2.3	--	--
JACQUES 7820	29.1	--	--	173.4	--	--	3.8	--	--
BLANEY B702	29.3	30	--	174.2	167	--	2.6	2	--
AVERAGE	24.7	25	25	176.3	168	151	2.7	3	3
RANGE	21.1	22	23	149.6	140	131	0.9	1	1
	29.3	30	28	201.6	192	163	6.6	5	5
LEAST SIGNIFICANT DIFFERENCE	1.3			14.3					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

Table 9
ZONE 3—NORTH CENTRAL MICHIGAN—HURON COUNTY TRIAL—GRAIN
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL

(100 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2	3	1990	2	3	1990	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
KING AGRO K299	18.9	--	--	135.6	--	--	16.0	--	--
DAIRYLAND DX1192	19.0	--	--	145.7	--	--	19.4	--	--
PIONEER 3779	19.1	20	20	164.5	165	144	15.5	9	7
BETAGOLD IDA	19.2	--	--	149.4	--	--	18.9	--	--
CROW'S 167	19.4	--	--	144.1	--	--	15.7	--	--
GREAT LAKES GL350	19.5	--	--	146.1	--	--	4.5	--	--
DAIRYLAND DX1095	19.5	21	22	137.5	146	136	14.9	8	8
BETAGOLD INGRID	19.6	20	21	133.4	149	134	21.1	13	9
WOLVERINE W133	19.7	--	--	122.1	--	--	18.7	--	--
BLANEY B305	19.8	--	--	132.9	--	--	6.2	--	--
GARST 8952	19.9	--	--	139.5	--	--	19.2	--	--
FUNK'S G-BRAND 4160	20.0	--	--	134.4	--	--	11.3	--	--
ASGROW RX406	20.0	21	21	153.6	163	147	23.4	12	8
CARGILL 3637	20.0	--	--	147.0	--	--	25.4	--	--
RUPP XR1494	20.0	--	--	142.6	--	--	8.5	--	--
RENK RK534	20.2	23	--	149.7	151	--	14.1	7	--
RENK RK430	20.2	--	--	143.2	--	--	8.4	--	--
AMCORN PSX3333	20.2	--	--	142.6	--	--	4.8	--	--
AMCORN PSX1122	20.2	--	--	134.1	--	--	16.8	--	--
PIONEER 3751	20.4	21	22	158.3	169	145	3.6	3	4
ASGROW RX409	20.4	--	--	154.0	--	--	1.7	--	--
GREAT LAKES GL420	20.5	21	22	156.8	161	146	23.1	12	8
DYNAGRO 5243	20.5	--	--	126.3	--	--	7.5	--	--
ASGROW RX337	20.5	--	--	144.6	--	--	12.1	--	--
PICKSEED 5665	20.5	20	--	160.9	178	--	0.6	1	--
PICKSEED 71-826	20.5	--	--	156.0	--	--	0.0	--	--
GREAT LAKES GL446	20.6	21	--	158.9	164	--	11.8	6	--
TOP FARM TFSX1195A	20.6	--	--	146.9	--	--	27.3	--	--
PICKSEED 5545	20.6	21	--	162.0	170	--	1.8	2	--
MAIZEX MX100	20.7	--	--	149.1	--	--	18.7	--	--
KING AGRO K2204	20.7	--	--	154.7	--	--	11.6	--	--
COUNTRYMARK C434X	20.7	22	--	130.3	139	--	29.5	16	--
*CARGILL 3427	20.7	--	--	170.6	--	--	12.7	--	--
RENK RK505	20.7	20	22	140.4	144	136	6.1	5	3
BETAGOLD KARLA	20.8	21	23	146.2	167	148	14.9	8	5
BLANEY B102WX	20.9	--	--	124.5	--	--	13.7	--	--
GRIES GSF-2190	20.9	--	--	130.8	--	--	5.7	--	--
WOLVERINE W156	20.9	23	24	149.1	149	134	9.0	5	6
SUPER CROST 1900	21.0	--	--	152.6	--	--	20.7	--	--
KALTENBERG K4300	21.0	--	--	146.2	--	--	7.1	--	--
*GOLDEN HARVEST H-2331	21.0	22	--	186.5	178	--	11.0	6	--
FUNK'S G-BRAND 4260	21.1	--	--	157.2	--	--	2.4	--	--
GARST 8808	21.1	--	--	149.6	--	--	2.5	--	--
NORTHROP KING N3624	21.2	21	--	163.3	172	--	9.0	5	--
COUNTRYMARK C363X	21.2	22	--	144.6	151	--	6.6	4	--
GARST 8882	21.2	--	--	144.5	--	--	16.8	--	--
CALLAHAN C729	21.2	--	--	144.5	--	--	9.3	--	--
CALLAHAN C725	21.2	--	--	156.9	--	--	24.1	--	--
*KING AGRO K416	21.3	22	21	173.8	172	145	3.4	2	4
COUNTRYMARK C343X	21.3	21	22	140.3	146	128	30.1	15	10
DEKALB DK451	21.4	--	--	155.0	--	--	3.2	--	--
JACQUES 4900	21.5	22	23	160.9	163	149	7.9	4	4
ASGROW RX469	21.5	--	--	154.9	--	--	8.5	--	--
MAIZEX MX95	21.5	--	--	156.0	--	--	3.8	--	--
*TOP FARM TFSX1101	21.5	--	--	169.9	--	--	19.7	--	--

(continued below)

LATE TRIAL

(101 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2	3	1990	2	3	1990	2	3
	YR	YR	YR	YR	YR	YR	YR	YR	YR
RENK RK602	21.2	--	--	155.5	--	--	16.9	--	--
FUNK'S G-BRAND 4309	21.3	22	24	172.2	166	155	14.2	7	7
*PIONEER 3573	21.8	23	--	195.0	201	--	10.1	5	--
BLANEY B505	22.0	24	--	139.9	154	--	9.6	5	--
DYNAGRO 5312	22.1	--	--	167.8	--	--	4.7	--	--
CROW'S 237	22.3	--	--	137.2	--	--	13.9	--	--
AMCORN PSX6363	22.3	--	--	136.2	--	--	13.8	--	--
JACQUES 5170	22.4	--	--	156.0	--	--	6.8	--	--
GOLDEN HARVEST H-2404	22.5	24	--	156.9	159	--	4.3	2	--
FUNK'S G-BRAND 4299	22.6	23	24	174.9	180	155	1.8	1	1
GARST 8599	22.6	--	--	162.7	--	--	9.4	--	--
*CARGILL 4327	22.7	24	--	181.7	173	--	4.8	2	--
JUNG 2640	22.9	--	--	162.8	--	--	9.6	--	--
TERRA TR1020	23.0	--	--	155.4	--	--	22.2	--	--
DEKALB DK524	23.2	23	24	168.1	174	147	2.3	2	2
CROW'S 227	23.2	--	--	157.7	--	--	5.5	--	--
NORTHROP KING S4590	23.3	--	--	154.7	--	--	7.5	--	--
MAUMEE VALLEY MV630	23.3	24	25	153.1	161	144	5.6	4	3
GRIES GSF-4460	23.4	25	--	150.2	153	--	9.1	6	--
*PIONEER 3527	23.4	--	--	200.8	--	--	0.0	--	--
BETAGOLD HANNA	23.5	--	--	158.4	--	--	5.7	--	--
GOLDEN HARVEST H-2410	23.5	25	--	174.8	171	--	14.9	9	--
KING AGRO K448	23.6	--	--	173.4	--	--	4.1	--	--
CALLAHAN 21916X	23.6	--	--	156.0	--	--	5.5	--	--
ASGROW RX578	23.7	25	--	150.9	166	--	5.4	3	--
PROVICO 810	23.8	--	--	167.3	--	--	18.3	--	--
RENK RK138	23.8	24	25	133.3	146	129	12.6	7	5
PROVICO 811	23.9	--	--	159.6	--	--	14.0	--	--
*GREAT LAKES GL541	24.0	--	--	179.8	--	--	7.1	--	--
PIONEER 3475	24.0	25	26	171.6	167	149	1.3	1	2
RENK RK646	24.0	--	--	143.9	--	--	3.2	--	--
PROVICO 751	24.1	--	--	170.2	--	--	7.2	--	--
DYNAGRO 5351	24.2	--	--	154.5	--	--	4.8	--	--
CARGILL 4227	24.2	25	25	157.3	148	137	2.8	2	5
PIONEER 3503	24.3	--	--	165.5	--	--	1.8	--	--
MAIZEX MX102	24.3	--	--	163.4	--	--	3.3	--	--
SUPER CROST 2040	24.4	--	--	152.9	--	--	6.8	--	--
TERRA TR1040	24.4	26	27	170.2	171	145	9.9	5	4
SUPER CROST 2277	24.5	24	--	154.7	166	--	30.9	16	--
TERRA TR1010	24.5	25	27	159.9	165	148	1.8	1	1
TOP FARM TFSX1103	24.6	--	--	158.3	--	--	3.4	--	--
CROW'S 414	24.6	--	--	151.7	--	--	12.9	--	--
GREAT LAKES GL509	24.7	25	26	173.6	174	152	7.3	5	4
KING AGRO K470	24.7	--	--	175.2	--	--	5.5	--	--
DEKALB DK535	24.8	25	26	155.7	168	149	0.0	0	1
*CARGILL 5327	25.0	--	--	177.3	--	--	5.4	--	--
TOP FARM TFSX1105	25.0	--	--	142.4	--	--	2.2	--	--
JACQUES 6770	25.2	--	--	166.3	--	--	4.0	--	--
MAIZEX MX101	25.2	--	--	152.6	--	--	3.0	--	--
ASGROW RX626	25.4	26	--	166.8	170	--	5.1	3	--
MAUMEE VALLEY MV711	25.4	--	--	148.5	--	--	9.6	--	--
ANDERSONS PSX340	25.4	--	--	176.2	--	--	4.0	--	--
PIONEER 3429	25.5	26	--	176.2	180	--	1.1	1	--
GOLDEN HARVEST H-2465	25.5	--	--	168.8	--	--	8.9	--	--
CARGILL 5157	25.6	26	27	161.2	164	146	3.3	2	3

(continued below)

Table 9 (continued)
ZONE 3—NORTH CENTRAL MICHIGAN—HURON COUNTY TRIAL—GRAIN
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

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EARLY TRIAL (continued)									
(100 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*JUNG 2496	21.5	--	--	166.8	--	--	4.7	--	--
*DEKALB DK485	21.6	23	--	182.4	170	--	7.6	4	--
TERRA TR940	21.6	--	--	151.3	--	--	17.8	--	--
TOP FARM TFSX1102	21.7	--	--	145.4	--	--	19.5	--	--
WOLVERINE W158	22.1	--	--	145.3	--	--	16.8	--	--
*PIONEER 3733	22.2	--	--	176.9	--	--	3.8	--	--
GREAT LAKES GL459	22.3	--	--	156.0	--	--	3.8	--	--
DAIRYLAND DX1100	22.3	--	--	156.6	--	--	5.4	--	--
*GOLDEN HARVEST H-2343	22.3	23	24	165.3	175	144	10.6	7	5
CALLAHAN 21903X	22.3	--	--	142.7	--	--	15.0	--	--
CALLAHAN C743	22.5	--	--	163.7	--	--	5.7	--	--
MAUMEE VALLEY MV526	22.6	--	--	163.9	--	--	8.8	--	--
BETAGOLD KATRINA	22.6	23	--	134.9	153	--	29.6	16	--
*GREAT LAKES GL482	23.0	24	24	168.6	164	153	4.2	2	2
NORTHROP KING N4350	23.0	23	--	161.4	169	--	1.7	2	--
*ANDERSONS PSX290	23.0	23	--	165.6	170	--	3.2	3	--
WOLVERINE W163	23.2	23	24	124.4	154	141	1.4	1	0
PICKSEED 5577	23.2	--	--	142.6	--	--	2.0	--	--
KING AGRO GG955	23.2	24	--	163.3	174	--	2.9	1	--
*CARGILL 3627	23.5	--	--	175.3	--	--	7.4	--	--
RENK RK650	23.7	--	--	138.7	--	--	11.6	--	--
GARST 8708	23.8	--	--	147.7	--	--	8.7	--	--
KALTENBERG K5200	23.9	--	--	157.9	--	--	7.8	--	--
NORTHROP KING N4428	23.9	--	--	161.8	--	--	8.4	--	--
PICKSEED 61-197	24.0	--	--	144.7	--	--	30.6	--	--
*BLANEY B405	24.1	24	--	165.6	177	--	11.5	7	--
DAIRYLAND DX1103	24.3	25	25	138.9	148	135	1.2	1	4
AMCORN PSX5555	24.3	25	26	156.9	171	154	2.4	2	2
*JACQUES 4770	24.5	--	--	178.4	--	--	4.0	--	--
PROVICO 710	24.8	--	--	146.4	--	--	6.8	--	--
AVERAGE	21.4	22	23	151.3	162	142	11.1	6	5
RANGE	18.9	20	20	122.1	139	128	0.0	1	0
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	24.8	25	26	186.5	178	154	30.6	16	10
LEAST SIGNIFICANT DIFFERENCE	1.0			13.8					

LATE TRIAL (continued)									
(101 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
GOLDEN HARVEST H-2438	25.6	--	--	159.0	--	--	2.9	--	--
CROW'S 380	25.7	--	--	158.5	--	--	12.6	--	--
RUPP XR2566	25.8	--	--	136.8	--	--	3.1	--	--
*KING AGRO K5574	26.0	27	28	180.4	173	145	6.3	3	3
BLANEY B607WX	26.2	--	--	152.2	--	--	13.9	--	--
MAUMEE VALLEY MV762	26.2	27	28	168.9	176	149	4.0	2	2
MAUMEE VALLEY MV727	26.2	--	--	133.1	--	--	18.8	--	--
*RENK RK64	26.2	27	28	187.0	174	150	7.6	4	3
JUNG 2688	26.4	--	--	148.3	--	--	7.9	--	--
*GREAT LAKES GL579	26.8	27	28	198.0	188	163	2.8	3	2
PIONEER X9514	26.9	--	--	167.6	--	--	1.3	--	--
MAIZE MX83	27.1	--	--	152.6	--	--	9.1	--	--
GRIES GSF-4130	27.2	--	--	172.5	--	--	5.0	--	--
*GREAT LAKES GL582	27.3	28	29	181.9	178	162	4.9	3	2
RENK RK721	28.2	28	--	157.8	158	--	2.0	2	--
AVERAGE	24.4	25	26	162.2	169	149	7.3	4	3
RANGE	21.2	22	24	133.1	146	129	0.0	0	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.2	28	29	200.8	201	163	30.9	16	7
LEAST SIGNIFICANT DIFFERENCE	1.4			14.9					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

	1990	1989	1988
PLANTED	MAY 14	MAY 10	MAY 5
HARVESTED	NOVEMBER 16	OCTOBER 29	OCTOBER 28
SOIL TYPE	KILMANAGH LOAM	KILMANAGH LOAM	KILMANAGH LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	24,500	19,900	19,600
ROWS	30"	30"	30"
FERTILIZER	163-57-98	193-49-97	177-62-99
SOIL TEST: pH	7.6	7.8	6.1
P	140 (VERY HIGH)	104 (VERY HIGH)	127 (VERY HIGH)
K	187 (MEDIUM)	172 (MEDIUM)	263 (HIGH)

FARM COOPERATOR: William McCrea, Bad Axe

EXTENSION AGRICULTURAL AGENT: Jim LeCureux, Bad Axe

Table 10
ZONE 3—NORTH CENTRAL MICHIGAN—MONTCALM COUNTY—IRRIGATED TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL
(100 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
AMCORN PSX1122	20.6	--	--	135.6	--	--	5.1	--	--
ASGROW RX337	21.8	--	--	148.0	--	--	1.8	--	--
GREAT LAKES GL350	21.9	--	--	127.3	--	--	4.5	--	--
CROW'S 167	22.4	--	--	139.2	--	--	1.9	--	--
DAIRYLAND DX1192	23.1	--	--	147.3	--	--	2.7	--	--
KING AGRO K299	23.5	--	--	142.1	--	--	5.1	--	--
PICKSEED 5665	23.9	--	--	147.6	--	--	8.8	--	--
CALLAHAN C725	23.9	20	--	153.2	165	--	5.9	3	--
BLANEY B305	24.1	20	--	141.0	166	--	6.0	5	--
BLANEY B102WX	24.1	--	--	129.2	--	--	13.7	--	--
FUNK'S G-BRAND 4260	24.1	--	--	128.6	--	--	2.5	--	--
GREAT LAKES GL420	24.1	20	21	150.8	163	175	10.2	6	6
GARST 8882	24.1	--	--	142.0	--	--	9.9	--	--
BETAGOLD IDA	24.1	--	--	145.9	--	--	2.0	--	--
RUPP XR1494	24.4	--	--	144.5	--	--	0.7	--	--
FUNK'S G-BRAND 4160	24.5	--	--	156.8	--	--	3.3	--	--
DYNAGRO 5243	24.5	--	--	121.4	--	--	4.9	--	--
AMCORN PSX3333	24.6	20	21	146.2	165	162	6.4	4	4
KING AGRO K2204	24.7	--	--	125.5	--	--	3.5	--	--
BETAGOLD INGRID	24.7	--	--	138.1	--	--	8.1	--	--
WOLVERINE W133	24.9	--	--	130.2	--	--	0.9	--	--
CALLAHAN C729	24.9	21	--	139.2	154	--	0.0	0	--
PIONEER 3779	25.0	21	--	146.6	154	--	9.5	6	--
*GREAT LAKES GL459	25.2	--	--	174.7	--	--	3.7	--	--
RENK RK430	25.3	--	--	132.7	--	--	2.8	--	--
GARST 8952	25.4	--	--	129.4	--	--	0.6	--	--
COUNTRYMARK C363X	25.7	--	--	138.2	--	--	2.7	--	--
PICKSEED 5545	25.7	--	--	149.5	--	--	3.4	--	--
DAIRYLAND DX1095	25.8	--	--	130.2	--	--	4.4	--	--
PIONEER 3751	25.9	21	22	150.2	153	170	8.0	6	6
GARST 8808	26.0	--	--	146.2	--	--	4.1	--	--
MAIZEX MX95	26.3	--	--	126.5	--	--	3.3	--	--
*TOP FARM TFSX1195A	26.6	--	--	160.4	--	--	10.7	--	--
WOLVERINE W156	26.7	23	--	159.5	159	--	5.6	4	--
*BETAGOLD KARLA	26.7	--	--	167.3	--	--	2.7	--	--
KING AGRO K416	26.9	22	21	147.9	159	157	2.3	3	3
RENK RK505	26.9	--	--	118.4	--	--	3.8	--	--
RENK RK534	26.9	--	--	141.3	--	--	11.3	--	--
PICKSEED 71-826	26.9	--	--	146.8	--	--	1.6	--	--
KALTENBERG K4300	27.0	--	--	150.9	--	--	2.3	--	--
JACQUES 4900	27.1	--	--	149.8	--	--	3.6	--	--
NORTHROP KING N3624	27.1	21	21	148.1	176	177	0.7	2	2
ASGROW RX406	27.1	22	22	144.1	171	178	3.4	3	3
TERRA TR940	27.1	--	--	149.2	--	--	10.6	--	--
GREAT LAKES GL482	27.2	23	24	147.6	158	184	5.3	4	5
COUNTRYMARK C343X	27.2	--	--	134.6	--	--	4.5	--	--
TOP FARM TFSX1102	27.4	--	--	159.3	--	--	5.5	--	--
*GOLDEN HARVEST H-2343	27.5	--	--	160.7	--	--	5.6	--	--
PICKSEED 5577	27.6	--	--	139.5	--	--	7.0	--	--
GRIES GSF-2190	27.7	--	--	116.5	--	--	5.9	--	--
*GOLDEN HARVEST H-2331	27.7	23	--	181.5	166	--	5.6	4	--
*NORTHROP KING N4428	28.1	--	--	168.2	--	--	6.7	--	--
*PIONEER 3733	28.2	--	--	176.3	--	--	1.3	--	--
DEKALB DK451	28.3	--	--	114.4	--	--	7.3	--	--
NORTHROP KING N4350	28.4	23	23	155.2	175	186	2.1	3	3

(continued below)

LATE TRIAL
(101 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
JACQUES 5170	26.1	--	--	145.9	--	--	1.9	--	--
DYNAGRO 5312	27.5	--	--	150.5	--	--	5.5	--	--
CARGILL 4227	27.8	23	24	158.5	163	183	4.1	5	5
SUPER CROST 2040	28.7	--	--	149.2	--	--	1.3	--	--
MAIZEX MX102	28.7	--	--	145.1	--	--	3.0	--	--
GOLDEN HARVEST H-2404	28.8	23	23	155.9	176	181	3.4	2	2
TOP FARM TFSX1103	29.0	--	--	131.4	--	--	4.1	--	--
RENK RK646	29.3	--	--	145.6	--	--	3.6	--	--
TERRA TR1010	29.5	--	--	152.7	--	--	1.9	--	--
NORTHROP KING S4590	29.6	--	--	150.2	--	--	3.6	--	--
*CALLAHAN 21916X	29.6	--	--	172.2	--	--	3.3	--	--
TOP FARM TFSX1105	29.7	--	--	153.5	--	--	1.2	--	--
CROW'S 237	29.7	--	--	130.7	--	--	3.7	--	--
BLANEY B505	29.8	24	--	152.4	157	--	5.4	4	--
*DEKALB DK524	29.9	24	23	184.6	167	176	3.7	4	3
RENK RK602	30.0	--	--	146.9	--	--	3.4	--	--
GOLDEN HARVEST H-2465	30.1	--	--	162.2	--	--	3.6	--	--
MAIZEX MX101	30.2	--	--	131.6	--	--	7.5	--	--
KING AGRO K448	30.2	25	26	157.0	158	159	5.1	3	2
DYNAGRO 5351	30.3	--	--	140.6	--	--	2.2	--	--
RENK RK138	30.3	--	--	120.9	--	--	2.2	--	--
PIONEER 3475	30.4	25	25	157.9	151	168	1.6	2	2
BETAGOLD HANNA	30.4	24	--	153.8	161	--	3.6	3	--
FUNK'S G-BRAND 4299	30.5	--	--	153.4	--	--	3.7	--	--
GARST 8599	30.5	--	--	145.4	--	--	5.1	--	--
KING AGRO K470	30.6	--	--	162.3	--	--	9.5	--	--
JUNG 2640	30.7	--	--	156.8	--	--	3.5	--	--
GREAT LAKES GL509	30.9	26	26	158.5	150	179	2.5	2	3
SUPER CROST 2277	31.0	24	--	158.4	184	--	5.0	4	--
PIONEER 3573	31.5	25	--	159.9	167	--	2.6	3	--
CROW'S 380	31.5	--	--	146.1	--	--	9.9	--	--
FUNK'S G-BRAND 4309	31.6	24	24	163.5	168	184	2.9	3	3
MAUMEE VALLEY MV630	31.6	25	--	145.3	172	--	1.4	1	--
GOLDEN HARVEST H-2438	31.6	26	26	159.9	164	164	5.2	3	4
MAIZEX MX83	31.7	--	--	158.4	--	--	3.6	--	--
ANDERSONS PSX340	31.7	--	--	163.8	--	--	3.1	--	--
CROW'S 414	31.7	--	--	147.5	--	--	1.8	--	--
KING AGRO K5574	32.0	26	26	160.6	172	187	5.0	3	3
JUNG 2688	32.0	--	--	163.1	--	--	1.7	--	--
TERRA TR1020	32.1	--	--	163.5	--	--	5.1	--	--
GRIES GSF-4460	32.2	--	--	127.2	--	--	4.2	--	--
ASGROW RX578	32.2	26	27	151.0	156	174	0.6	2	1
GOLDEN HARVEST H-2410	32.2	25	26	152.0	173	194	7.1	5	5
*PIONEER 3429	32.3	27	--	164.7	155	--	0.6	1	--
*CARGILL 5157	32.3	26	--	166.7	173	--	5.7	3	--
AMCORN PSX6363	32.3	--	--	131.5	--	--	0.0	--	--
*PIONEER X9514	32.7	--	--	179.2	--	--	2.5	--	--
CROW'S 227	32.7	--	--	132.3	--	--	0.6	--	--
*GREAT LAKES GL579	32.9	--	--	175.7	--	--	5.9	--	--
PROVICO 810	33.0	--	--	149.9	--	--	5.8	--	--
*PIONEER 3527	33.1	--	--	177.2	--	--	0.7	--	--
BLANEY B607WX	33.2	--	--	143.1	--	--	3.0	--	--
GREAT LAKES GL541	33.2	--	--	157.3	--	--	0.6	--	--
DEKALB DK535	33.5	26	26	156.7	175	186	2.0	2	2
*RENK RK64	33.5	26	27	171.8	179	192	4.2	3	3

(continued below)

Table 10 (continued)
ZONE 3—NORTH CENTRAL MICHIGAN—MONTCALM COUNTY—IRRIGATED TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)
(100 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*CARGILL 3427	28.4	--	--	177.1	--	--	7.2	--	--
ASGROW RX409	28.5	--	--	157.5	--	--	0.7	--	--
WOLVERINE W158	28.7	--	--	155.7	--	--	1.3	--	--
BLANEY B405	28.9	23	--	157.4	161	--	2.8	4	--
*SUPER CROST 1900	28.9	--	--	179.7	--	--	6.3	--	--
*JACQUES 4770	28.9	--	--	175.9	--	--	2.7	--	--
KALTENBERG K5200	29.1	--	--	144.1	--	--	2.6	--	--
*GREAT LAKES GL446	29.1	--	--	162.1	--	--	5.0	--	--
*BETAGOLD KATRINA	29.1	--	--	175.8	--	--	4.4	--	--
PICKSEED 61-197	29.1	--	--	157.9	--	--	2.4	--	--
WOLVERINE W163	29.2	23	23	107.3	145	166	1.9	3	2
*ASGROW RX469	29.2	--	--	166.3	--	--	5.6	--	--
*DEKALB DK485	29.3	--	--	178.0	--	--	4.7	--	--
MAIZE X M100	29.4	--	--	137.8	--	--	4.5	--	--
JUNG 2496	29.4	23	--	137.6	163	--	3.9	4	--
*CARGILL 3637	29.5	--	--	164.5	--	--	3.1	--	--
DAIRYLAND DX1103	29.5	24	25	122.1	143	164	7.9	5	4
PROVICO 710	29.6	--	--	153.7	--	--	7.4	--	--
*CARGILL 3627	29.6	--	--	174.1	--	--	2.5	--	--
*DAIRYLAND DX1100	29.6	--	--	160.0	--	--	5.9	--	--
MAUMEE VALLEY MV526	29.7	--	--	151.3	--	--	0.6	--	--
*GARST 8708	29.7	--	--	163.4	--	--	2.0	--	--
TOP FARM TFSX1101	29.8	--	--	153.4	--	--	2.7	--	--
CALLAHAN C743	30.0	24	25	151.3	158	166	5.4	3	3
COUNTRYMARK C434X	30.1	--	--	150.0	--	--	5.7	--	--
*ANDERSONS PSX290	30.3	--	--	168.9	--	--	3.1	--	--
RENK RK650	30.4	--	--	127.4	--	--	5.6	--	--
CALLAHAN 21903X	30.5	--	--	135.1	--	--	3.6	--	--
KING AGRO GG955	30.6	24	24	141.3	155	169	2.2	3	3
*AMCORN PSX5555	30.8	24	25	160.9	169	177	6.5	6	5
AVERAGE	27.0	22	23	148.1	161	172	4.5	4	4
RANGE	20.6	20	21	107.3	143	157	0.0	0	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	30.8	24	25	181.5	176	186	13.7	6	6
LEAST SIGNIFICANT DIFFERENCE	1.5			11.7					
*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990									

LATE TRIAL (continued)
(101 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
RUPP XR2566	33.6	--	--	127.0	--	--	2.9	--	--
PIONEER 3503	33.8	27	--	146.5	165	--	0.0	1	--
ASGROW RX626	33.8	28	28	154.3	159	175	0.6	1	1
MAUMEE VALLEY MV762	33.8	26	--	130.7	156	--	0.9	2	--
CARGILL 4327	33.8	26	--	151.4	170	--	1.9	2	--
GRIES GSF-4130	33.9	--	--	144.6	--	--	3.8	--	--
PROVICO 751	33.9	--	--	143.1	--	--	1.7	--	--
*MAUMEE VALLEY MV711	33.9	--	--	170.0	--	--	2.7	--	--
TERRA TR1040	34.3	--	--	148.3	--	--	6.1	--	--
CARGILL 5327	34.7	--	--	138.6	--	--	0.7	--	--
PROVICO 811	34.9	--	--	143.5	--	--	4.3	--	--
*GREAT LAKES GL582	35.5	--	--	188.6	--	--	2.6	--	--
JACQUES 6770	35.7	--	--	136.2	--	--	2.5	--	--
MAUMEE VALLEY MV727	36.8	--	--	137.1	--	--	0.8	--	--
RENK RK721	37.7	30	--	143.8	153	--	2.1	2	--
AVERAGE	31.7	25	25	151.8	165	179	3.3	3	3
RANGE	26.1	23	23	120.9	150	159	0.0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	37.7	30	28	188.6	184	194	9.9	5	5
LEAST SIGNIFICANT DIFFERENCE	1.6			12.6					
*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990									

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	1990	1989	1988
PLANTED	MAY 14	MAY 6	MAY 3
HARVESTED	NOVEMBER 7	OCTOBER 30-31	OCTOBER 19
SOIL TYPE	MONTCALM-MCBRIDE SANDY LOAM	MONTCALM-MCBRIDE SANDY LOAM	MONTCALM-MCBRIDE SANDY LOAM
PREVIOUS CROP	POTATOES	POTATOES	POTATOES
POPULATION	22,600	19,200	22,200
ROWS	30"	30"	30"
FERTILIZER	150-15-60	232-60-75	247-123-123
SOIL TEST: pH	5.4	6.0	6.0
P	429 (VERY HIGH)	428 (VERY HIGH)	501 (VERY HIGH)
K	175 (MEDIUM)	296 (HIGH)	305 (VERY HIGH)
IRRIGATED	6.2 INCHES	8 INCHES	13.8 INCHES
FARM COOPERATOR:	Richard Kitchen, Montcalm Research Farm, Entran		
COUNTY EXTENSION DIRECTOR:	Don Smucker, Stanton		

Table 11
ZONE 3—NORTH CENTRAL MICHIGAN—MASON COUNTY—IRRIGATED TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL
(100 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
GARST 8952	18.7	--	--	143.0	--	--	7.1	--	--
AMCORN PSX1122	19.3	17	--	138.3	129	--	1.3	1	--
ASGROW RX337	19.7	--	--	135.8	--	--	4.8	--	--
BETAGOLD INGRID	20.0	--	--	154.2	--	--	4.9	--	--
GREAT LAKES GL350	20.5	--	--	156.5	--	--	2.3	--	--
RENK RK505	20.8	--	--	116.4	--	--	4.3	--	--
CROW'S 167	20.8	--	--	154.6	--	--	0.6	--	--
KING AGRO K299	21.0	--	--	141.1	--	--	4.8	--	--
PIONEER 3779	21.1	19	19	165.0	154	147	2.4	2	3
CALLAHAN C725	21.1	--	--	158.6	--	--	4.5	--	--
KING AGRO K2204	21.2	--	--	156.4	--	--	1.3	--	--
NORTHROP KING N3624	21.4	18	19	163.7	155	143	1.8	1	3
RENK RK534	21.4	--	--	159.9	--	--	2.3	--	--
RENK RK430	21.5	--	--	138.2	--	--	3.7	--	--
BETAGOLD IDA	21.7	--	--	152.2	--	--	3.4	--	--
DYNAGRO 5243	21.8	--	--	159.0	--	--	6.2	--	--
GARST 8808	21.8	--	--	162.7	--	--	3.2	--	--
KALTENBERG K4300	22.1	--	--	149.5	--	--	3.6	--	--
DAIRYLAND DX1192	22.1	--	--	154.1	--	--	0.0	--	--
PICKSEED 5665	22.2	--	--	155.9	--	--	2.0	--	--
CALLAHAN C729	22.3	--	--	151.0	--	--	1.1	--	--
*GARST 8882	22.4	--	--	171.4	--	--	4.5	--	--
PICKSEED 5545	22.6	--	--	150.6	--	--	3.1	--	--
BLANEY B102WX	22.7	--	--	126.6	--	--	9.2	--	--
TOP FARM TFSX1195A	22.7	--	--	153.0	--	--	6.9	--	--
AMCORN PSX3333	22.7	20	20	138.7	129	124	4.9	5	7
JACQUES 4770	22.8	--	--	167.7	--	--	4.7	--	--
TERRA TR940	22.8	--	--	154.9	--	--	5.0	--	--
DAIRYLAND DX1095	22.8	--	--	139.3	--	--	5.6	--	--
RUPP XR1494	22.8	--	--	150.5	--	--	0.6	--	--
GREAT LAKES GL459	22.9	--	--	149.0	--	--	6.7	--	--
WOLVERINE W133	23.0	--	--	141.4	--	--	3.4	--	--
COUNTRYMARK C363X	23.0	--	--	143.5	--	--	2.2	--	--
*PICKSEED 71-826	23.0	--	--	173.3	--	--	0.6	--	--
TOP FARM TFSX1102	23.2	--	--	160.9	--	--	4.6	--	--
CALLAHAN 21903X	23.2	--	--	158.2	--	--	2.0	--	--
FUNK'S G-BRAND 4160	23.3	--	--	154.0	--	--	2.3	--	--
*CARGILL 3427	23.4	--	--	186.9	--	--	2.2	--	--
ASGROW RX409	23.5	--	--	162.6	--	--	1.2	--	--
COUNTRYMARK C343X	23.5	--	--	131.3	--	--	2.1	--	--
*GOLDEN HARVEST H-2343	23.6	20	21	170.0	169	156	2.0	1	3
JACQUES 4900	23.7	--	--	157.3	--	--	3.7	--	--
GREAT LAKES GL420	23.7	--	--	156.0	--	--	4.6	--	--
WOLVERINE W156	23.7	--	--	165.0	--	--	2.8	--	--
MAIZE MX95	23.8	--	--	152.5	--	--	2.3	--	--
BLANEY B305	23.9	--	--	158.8	--	--	1.1	--	--
*SUPER CROST 1900	23.9	--	--	192.4	--	--	3.3	--	--
KING AGRO K416	23.9	20	21	163.6	148	146	3.0	3	4
BETAGOLD KARLA	23.9	--	--	126.0	--	--	5.8	--	--
*GREAT LAKES GL446	24.1	--	--	181.2	--	--	1.6	--	--
*DAIRYLAND DX1100	24.1	--	--	180.8	--	--	3.3	--	--
MAIZE MX100	24.2	--	--	152.0	--	--	7.0	--	--
ASGROW RX406	24.3	20	21	157.7	148	143	4.9	2	4
*JUNG 2496	24.3	--	--	177.5	--	--	4.0	--	--
GRIES GSF-2190	24.4	--	--	127.7	--	--	4.0	--	--

(continued below)

LATE TRIAL
(101 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
TERRA TR1010	24.2	--	--	135.1	--	--	1.8	--	--
DYNAGRO 5312	24.3	--	--	154.0	--	--	5.0	--	--
KING AGRO K448	24.6	21	22	154.3	141	144	1.1	1	2
SUPER CROST 2040	24.7	--	--	143.3	--	--	4.8	--	--
RENK RK602	24.8	--	--	164.1	--	--	4.0	--	--
BETAGOLD HANNA	24.9	--	--	134.7	--	--	7.2	--	--
MAUMEE VALLEY MV630	25.0	--	--	153.3	--	--	3.1	--	--
MAIZE MX102	25.1	--	--	132.8	--	--	3.9	--	--
CARGILL 4227	25.2	--	--	153.0	--	--	2.2	--	--
BLANEY B505	25.3	--	--	139.1	--	--	0.6	--	--
JACQUES 5170	25.4	--	--	148.4	--	--	1.9	--	--
NORTHROP KING S4590	25.4	--	--	146.9	--	--	1.1	--	--
SUPER CROST 2277	25.6	21	--	165.2	156	--	6.9	3	--
GOLDEN HARVEST H-2404	26.1	--	--	156.4	--	--	5.0	--	--
JUNG 2640	26.6	--	--	139.2	--	--	2.3	--	--
KING AGRO K470	26.9	--	--	168.7	--	--	3.6	--	--
FUNK'S G-BRAND 4299	27.0	22	--	158.0	157	158	1.2	1	2
RENK RK646	27.0	--	--	136.7	--	--	2.0	--	--
CROW'S 414	27.0	--	--	136.1	--	--	1.7	--	--
TOP FARM TFSX1103	27.1	--	--	141.2	--	--	2.9	--	--
GARST 8599	27.3	--	--	163.6	--	--	2.8	--	--
MAIZE MX101	27.5	--	--	148.9	--	--	3.3	--	--
TERRA TR1020	27.7	--	--	157.6	--	--	3.7	--	--
CALLAHAN 21916X	28.0	--	--	154.7	--	--	3.2	--	--
FUNK'S G-BRAND 4309	28.1	23	23	163.9	148	155	2.2	2	3
*PIONEER 3475	28.1	24	--	191.4	175	--	2.6	2	--
DEKALB DK535	28.3	23	23	150.1	156	157	0.0	1	1
GREAT LAKES GL509	28.4	--	--	170.2	--	--	1.1	--	--
CROW'S 237	28.4	--	--	149.7	--	--	2.3	--	--
JACQUES 6770	28.6	--	--	145.3	--	--	1.2	--	--
RENK RK138	28.6	--	--	143.1	--	--	1.3	--	--
CARGILL 4327	28.7	--	--	163.4	--	--	2.9	--	--
CARGILL 5327	28.9	--	--	156.4	--	--	0.6	--	--
*PIONEER 3573	29.0	24	--	175.5	172	--	1.3	2	--
CROW'S 380	29.0	--	--	149.6	--	--	6.4	--	--
*CARGILL 5157	29.1	--	--	180.9	--	--	1.8	--	--
*TERRA TR1040	29.1	--	--	173.9	--	--	0.6	--	--
ASGROW RX578	29.2	25	--	147.2	136	--	1.9	1	--
CROW'S 227	29.4	--	--	140.9	--	--	1.2	--	--
DYNAGRO 5351	29.5	--	--	132.7	--	--	1.3	--	--
ASGROW RX626	29.5	--	--	162.9	--	--	1.7	--	--
*GOLDEN HARVEST H-2410	29.5	--	--	176.2	163	162	2.5	--	--
*GREAT LAKES GL579	29.6	--	--	195.5	--	--	3.3	--	--
MAIZE MX83	29.6	--	--	160.6	--	--	2.3	--	--
PROVICO 811	29.6	--	--	152.8	--	--	0.6	--	--
*PIONEER 3503	29.8	--	--	181.7	--	--	0.0	--	--
*BLANEY B607WX	29.9	--	--	171.9	--	--	4.7	--	--
RENK RK64	30.0	--	--	167.1	--	--	5.6	--	--
TOP FARM TFSX1105	30.0	--	--	132.6	--	--	1.8	--	--
GREAT LAKES GL541	30.3	--	--	140.0	--	--	2.4	--	--
PIONEER X9514	30.4	--	--	159.7	--	--	0.7	--	--
DEKALB DK524	30.5	25	24	167.2	163	162	1.8	1	2
PROVICO 751	30.5	--	--	158.7	--	--	0.7	--	--
GOLDEN HARVEST H-2465	30.5	--	--	155.7	--	--	1.8	--	--
*PIONEER 3527	30.8	--	--	174.6	--	--	0.0	--	--

(continued below)

Table 11 (continued)
ZONE 3—NORTH CENTRAL MICHIGAN—MASON COUNTY—IRRIGATED TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)									
(100 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
COUNTRYMARK C434X	24.4	--	--	141.4	--	--	7.5	--	--
CALLAHAN C743	24.4	--	--	155.8	--	--	6.2	--	--
GREAT LAKES GL482	24.5	22	22	158.2	140	151	4.3	4	4
WOLVERINE W158	24.5	--	--	141.6	--	--	3.0	--	--
*PIONEER 3751	24.5	20	21	176.4	160	154	4.4	3	2
MAUMEE VALLEY MV526	24.5	--	--	164.9	--	--	4.1	--	--
GARST B708	24.5	--	--	144.8	--	--	7.5	--	--
FUNK'S G-BRAND 4260	24.7	--	--	155.4	--	--	0.7	--	--
CARGILL 3637	24.7	--	--	145.6	--	--	4.1	--	--
WOLVERINE W163	24.8	--	--	120.0	--	--	2.0	--	--
NORTHROP KING N4428	24.8	--	--	162.0	--	--	3.6	--	--
PROVICO 710	24.8	--	--	148.6	--	--	4.8	--	--
DAIRYLAND DX1103	25.0	--	--	142.0	--	--	5.4	--	--
PICKSEED 61-197	25.0	--	--	140.8	--	--	9.5	--	--
DEKALB DK451	25.1	--	--	156.0	--	--	0.0	--	--
ASGROW RX469	25.1	--	--	161.1	--	--	2.7	--	--
*GOLDEN HARVEST H-2331	25.2	--	--	196.3	--	--	4.7	--	--
PICKSEED 5577	25.3	--	--	162.9	--	--	2.5	--	--
BETAGOLD KATRINA	25.4	--	--	158.9	--	--	2.1	--	--
KALTENBERG K5200	25.5	--	--	145.3	--	--	4.0	--	--
*NORTHROP KING N4350	25.5	21	--	169.6	157	--	1.7	2	--
RENK RK650	25.5	--	--	134.5	--	--	4.1	--	--
*CARGILL 3627	25.7	22	--	181.9	156	--	2.3	1	--
AMCORN PSX5555	26.0	--	--	144.2	--	--	4.2	--	--
*DEKALB DK485	26.1	--	--	179.1	--	--	5.3	--	--
KING AGRO GG955	26.2	23	23	167.6	157	149	2.8	1	2
*BLANEY B405	26.8	--	--	171.4	--	--	3.6	--	--
*TOP FARM TFSX1101	26.8	--	--	172.9	--	--	1.2	--	--
*PIONEER 3733	27.7	--	--	174.4	--	--	0.6	--	--
ANDERSONS PSX290	28.2	--	--	169.1	--	--	1.1	--	--
AVERAGE	23.5	20	21	155.8	150	146	3.5	2	3
RANGE	18.7	17	19	116.4	129	124	0.0	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	28.2	23	23	196.3	169	156	9.5	5	7
LEAST SIGNIFICANT DIFFERENCE	1.1			13.5					

LATE TRIAL (continued)									
(101 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
*PROVICO 810	30.9	--	--	173.5	--	--	2.0	--	--
JUNG 2688	31.0	--	--	136.1	--	--	0.6	--	--
KING AGRO K5574	31.1	26	25	167.7	156	157	15.7	2.5	2 3
ANDERSONS PSX340	31.1	--	--	157.5	--	--	1.8	--	--
*GRIES GSF-4130	31.2	--	--	171.6	--	--	2.3	--	--
MAUMEE VALLEY MV762	31.5	--	--	137.1	--	--	0.0	--	--
GRIES GSF-4460	31.7	27	--	158.5	142	--	1.3	1	--
*PIONEER 3429	31.7	25	--	181.7	152	--	1.2	1	--
MAUMEE VALLEY MV711	31.9	--	--	163.5	--	--	0.7	--	--
AMCORN PSX6363	31.9	--	--	127.2	--	--	2.1	--	--
GOLDEN HARVEST H-2438	32.0	--	--	167.4	--	--	0.6	--	--
RUPP XR2566	32.3	--	--	123.9	--	--	3.2	--	--
MAUMEE VALLEY MV727	33.1	--	--	165.5	--	--	2.0	--	--
*GREAT LAKES GL582	33.4	--	--	187.7	--	--	1.6	--	--
RENK RK721	34.9	--	--	155.1	--	--	0.0	--	--
AVERAGE	28.7	24	23	156.3	154	155	2.2	2	2
RANGE	24.2	21	22	123.9	136	144	0.0	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	34.9	27	25	195.5	175	162	7.2	3	3
LEAST SIGNIFICANT DIFFERENCE	1.4			14.2					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

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	1990	1989	1988
PLANTED	MAY 18	MAY 11	MAY 12
HARVESTED	NOVEMBER 8	NOVEMBER 1	NOVEMBER 1
SOIL TYPE	IOSCO SANDY LOAM	IOSCO SANDY LOAM	MONTCALM LOAMY SAND & RUSSEU FINE SAND
PREVIOUS CROP	SNAP BEANS	SNAP BEANS & RYE COVER	CORN
POPULATION	24,400	19,600	22,000
ROWS	30"	30"	30"
FERTILIZER	116-41-60	135-20-80	122-84-142 + ZINC
SOIL TEST: pH	6.8	6.5	6.4
P	299 (VERY HIGH)	201 (VERY HIGH)	74 (HIGH)
K	449 VERY (HIGH)	272 (HIGH)	188 (MEDIUM)
IRRIGATION	1 INCH	4 INCHES	
FARM COOPERATOR:	Robert and August Ohse, Scottville (1990, 1989) Mason County		
	Arthur and Jim Ramthum, Montague (1988) Oceana County		
COUNTY EXTENSION DIRECTOR:	David Peterson, Scottville (1990, 1989) Mason County		
	Norman Myers, Hart (1988) Oceana County		

Table 12
ZONE 3—NORTH CENTRAL MICHIGAN—AVERAGE OF HURON, MONTCALM, & MASON COUNTY TRIALS
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL
 (100 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
AMCORN PSX1122	20.0	18	--	136.0	128	--	7.7	4	--
GREAT LAKES GL350	20.6	--	--	143.3	--	--	3.8	--	--
ASGROW RX337	20.7	--	--	142.8	--	--	6.2	--	--
CROW'S 167	20.9	--	--	146.0	--	--	6.1	--	--
KING AGRO K299	21.1	--	--	139.6	--	--	8.6	--	--
GARST 8952	21.3	--	--	137.3	--	--	9.0	--	--
BETAGOLD INGRID	21.4	20	21	141.9	154	137	11.4	8	5
DAIRYLAND DX1192	21.4	--	--	149.0	--	--	7.4	--	--
PIONEER 3779	21.7	20	20	158.7	158	144	9.1	6	5
BETAGOLD IDA	21.7	--	--	149.2	--	--	8.1	--	--
CALLAHAN C725	22.1	19	--	156.2	166	--	11.5	6	--
KING AGRO K2204	22.2	--	--	145.5	--	--	5.5	--	--
PICKSEED 5665	22.2	21	--	154.8	175	--	3.8	3	--
DYNAGRO 5243	22.3	--	--	135.6	--	--	6.2	--	--
RENK RK430	22.3	--	--	138.0	--	--	5.0	--	--
RUPP XR1494	22.4	--	--	145.9	--	--	3.3	--	--
WOLVERINE W133	22.5	--	--	131.2	--	--	7.7	--	--
AMCORN PSX3333	22.5	20	20	142.5	147	141	5.4	5	5
BLANEY B305	22.6	19	--	144.2	167	--	4.4	4	--
BLANEY B102WX	22.6	--	--	126.8	--	--	12.2	--	--
FUNK'S G-BRAND 4160	22.6	--	--	148.4	--	--	5.6	--	--
GARST 8882	22.6	--	--	152.6	--	--	10.4	--	--
DAIRYLAND DX1095	22.7	22	22	135.7	145	143	8.3	5	6
GREAT LAKES GL420	22.8	21	21	154.5	162	160	12.6	7	6
RENK RK505	22.8	22	22	125.1	136	131	4.7	4	3
RENK RK534	22.8	24	--	150.3	151	--	9.2	5	--
CALLAHAN C729	22.8	19	--	144.9	157	--	3.5	2	--
GARST 8808	23.0	--	--	152.8	--	--	3.3	--	--
PICKSEED 5545	23.0	22	--	154.0	166	--	2.8	3	--
NORTHROP KING N3624	23.2	20	20	158.4	168	162	3.8	3	3
FUNK'S G-BRAND 4260	23.3	--	--	147.1	--	--	1.9	--	--
COUNTRYMARK C363X	23.3	23	--	142.1	150	--	3.8	2	--
TOP FARM TFSX1195A	23.3	--	--	153.4	--	--	15.0	--	--
KALTENBERG K4300	23.4	--	--	148.9	--	--	4.3	--	--
GREAT LAKES GL459	23.5	--	--	159.9	--	--	4.7	--	--
PICKSEED 71-826	23.5	--	--	158.7	--	--	0.7	--	--
PIONEER 3751	23.6	21	22	161.6	161	156	5.3	4	4
WOLVERINE W156	23.8	23	24	157.9	156	138	5.8	4	5
ASGROW RX406	23.8	21	21	151.8	161	156	10.6	6	5
BETAGOLD KARLA	23.8	23	24	146.5	167	148	7.8	5	3
TERRA TR940	23.8	--	--	151.8	--	--	11.1	--	--
MAIZEX MX95	23.9	--	--	145.0	--	--	3.1	--	--
KING AGRO K416	24.0	21	21	161.8	160	149	2.9	3	4
COUNTRYMARK C343X	24.0	23	23	135.4	144	141	12.2	7	6
JACQUES 4900	24.1	24	24	156.0	160	147	5.1	3	3
ASGROW RX409	24.1	--	--	158.0	--	--	1.2	--	--
TOP FARM TFSX1102	24.1	--	--	155.2	--	--	9.9	--	--
*CARGILL 3427	24.2	--	--	178.2	--	--	7.4	--	--
GRIES GSF-2190	24.3	--	--	125.0	--	--	5.2	--	--
*GOLDEN HARVEST H-2343	24.5	22	23	165.3	171	150	6.1	4	4
*SUPER CROST 1900	24.6	--	--	174.9	--	--	10.1	--	--
*GREAT LAKES GL446	24.6	23	--	167.4	169	--	6.1	3	--
*GOLDEN HARVEST H-2331	24.6	22	--	188.1	174	--	7.1	5	--
CARGILL 3637	24.7	--	--	152.4	--	--	10.9	--	--
MAIZEX MX100	24.8	--	--	146.3	--	--	10.1	--	--

(continued below)

LATE TRIAL
 (101 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
JACQUES 5170	24.6	--	--	150.1	--	--	3.5	--	--
DYNAGRO 5312	24.6	--	--	157.4	--	--	5.1	--	--
RENK RK602	25.3	--	--	155.5	--	--	8.1	--	--
BLANEY B505	25.7	24	--	143.8	155	--	5.2	4	--
CARGILL 4227	25.7	24	24	156.3	155	159	3.0	3	5
GOLDEN HARVEST H-2404	25.8	23	23	156.4	167	175	4.2	2	2
SUPER CROST 2040	25.9	--	--	148.5	--	--	4.3	--	--
MAIZEX MX102	26.0	--	--	147.1	--	--	3.4	--	--
NORTHROP KING S4590	26.1	--	--	150.6	--	--	4.1	--	--
KING AGRO K448	26.1	24	25	161.6	158	152	3.4	2	2
TERRA TR1010	26.1	26	28	149.2	160	144	1.8	1	1
BETAGOLD HANNA	26.3	22	--	149.0	159	--	5.5	4	--
MAUMEE VALLEY MV630	26.6	24	25	150.6	167	149	3.4	2	2
FUNK'S G-BRAND 4299	26.7	23	24	162.1	167	155	2.2	2	2
JUNG 2640	26.7	--	--	152.9	--	--	5.1	--	--
GARST 8599	26.8	--	--	157.2	--	--	5.8	--	--
RENK RK646	26.8	--	--	142.1	--	--	2.9	--	--
CROW'S 237	26.8	--	--	139.2	--	--	6.6	--	--
TOP FARM TFSX1103	26.9	--	--	143.6	--	--	3.5	--	--
FUNK'S G-BRAND 4309	27.0	23	24	166.5	161	165	6.4	4	4
SUPER CROST 2277	27.0	23	--	159.4	169	--	14.3	8	--
CALLAHAN 21916X	27.1	--	--	161.0	--	--	4.0	--	--
*PIONEER 3573	27.4	24	--	176.8	180	--	4.7	3	--
KING AGRO K470	27.4	--	--	168.7	--	--	6.2	--	--
*PIONEER 3475	27.5	25	25	173.6	164	163	1.8	2	2
MAIZEX MX101	27.6	--	--	144.4	--	--	4.6	--	--
TERRA TR1020	27.6	--	--	158.8	--	--	10.3	--	--
RENK RKT38	27.6	26	26	132.4	146	129	5.4	3	2
CROW'S 414	27.8	--	--	145.1	--	--	5.5	--	--
*DEKALB DK524	27.9	24	24	173.3	168	162	2.6	2	2
GREAT LAKES GL509	28.0	26	26	167.4	163	166	3.6	3	3
DYNAGRO 5351	28.0	--	--	142.6	--	--	2.8	--	--
TOP FARM TFSX1105	28.2	--	--	142.8	--	--	1.7	--	--
ASGROW RX578	28.4	25	26	149.7	153	171	2.6	2	1
CARGILL 4327	28.4	25	--	165.5	171	--	3.2	2	--
CROW'S 227	28.4	--	--	143.6	--	--	2.4	--	--
GOLDEN HARVEST H-2410	28.4	25	26	167.7	174	195	8.2	6	6
CROW'S 380	28.7	--	--	151.4	--	--	9.6	--	--
GOLDEN HARVEST H-2465	28.7	--	--	162.2	--	--	4.8	--	--
AMCORN PSX6363	28.8	--	--	131.6	--	--	5.3	--	--
DEKALB DK535	28.9	25	25	154.2	166	164	0.7	1	1
CARGILL 5157	29.0	26	27	169.6	171	151	3.6	2	2
GRIES GSF-4460	29.1	27	--	145.3	143	--	4.9	3	--
*PIONEER 3527	29.1	--	--	184.2	--	--	0.2	--	--
GREAT LAKES GL541	29.2	--	--	159.0	--	--	3.4	--	--
PROVICO 810	29.2	--	--	163.6	--	--	8.7	--	--
PIONEER 3503	29.3	25	--	164.6	174	--	0.6	1	--
TERRA TR1040	29.3	29	29	164.1	168	143	5.5	3	3
ANDERSONS PSX340	29.4	--	--	165.8	--	--	3.0	--	--
MAIZEX MX83	29.5	--	--	157.2	--	--	5.0	--	--
PROVICO 751	29.5	--	--	157.3	--	--	3.2	--	--
PROVICO 811	29.5	--	--	152.0	--	--	6.3	--	--
CARGILL 5327	29.5	--	--	157.4	--	--	2.2	--	--
ASGROW RX626	29.6	27	27	161.3	165	179	2.5	2	1
KING AGRO K5574	29.7	26	27	169.6	167	163	4.6	3	3

(continued below)

Table 12 (continued)
ZONE 3—NORTH CENTRAL MICHIGAN—AVERAGE OF HURON, MONTCALM, & MASON COUNTY TRIALS
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

EARLY TRIAL (continued)									
(100 DAY RELATIVE MATURITY OR EARLIER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
DEKALB DK451	24.9	--	--	141.8	--	--	3.5	--	--
GREAT LAKES GL482	24.9	23	23	158.1	154	162	4.6	4	4
WOLVERINE W158	25.1	--	--	147.5	--	--	7.0	--	--
COUNTRYMARK C434X	25.1	24	--	140.6	144	--	14.2	8	--
JUNG 2496	25.1	21	--	160.6	175	--	4.2	4	--
ASGROW RX469	25.3	--	--	160.8	--	--	5.6	--	--
*DAIRYLAND DX1100	25.3	--	--	165.8	--	--	4.9	--	--
CALLAHAN 21903X	25.3	--	--	145.3	--	--	6.9	--	--
*JACQUES 4770	25.4	--	--	174.0	--	--	3.8	--	--
PICKSEED 5577	25.4	--	--	148.3	--	--	3.8	--	--
NORTHROP KING N4350	25.6	22	23	162.1	167	181	1.8	2	2
NORTHROP KING N4428	25.6	--	--	164.0	--	--	6.2	--	--
MAUMEE VALLEY MV526	25.6	--	--	160.0	--	--	4.5	--	--
CALLAHAN C743	25.6	22	23	156.9	161	168	5.8	3	3
*DEKALB DK485	25.7	25	--	179.8	169	--	5.9	3	--
WOLVERINE W163	25.7	23	24	117.2	150	154	1.8	2	1
BETAGOLD KATRINA	25.7	25	--	156.5	164	--	12.0	7	--
*PIONEER 3733	26.0	--	--	175.9	--	--	1.9	--	--
GARST 8708	26.0	--	--	152.0	--	--	6.1	--	--
*TOP FARM TFSX1101	26.0	--	--	165.4	--	--	7.9	--	--
PICKSEED 61-197	26.0	--	--	147.8	--	--	14.2	--	--
KALTENBERG K5200	26.2	--	--	149.1	--	--	4.8	--	--
*CARGILL 3627	26.3	22	--	177.1	153	--	4.1	2	--
DAIRYLAND DX1103	26.3	24	25	134.3	148	151	4.8	3	4
PROVICO 710	26.4	--	--	149.6	--	--	6.3	--	--
RENK RK650	26.5	--	--	133.5	--	--	7.1	--	--
*BLANEY B405	26.6	24	--	164.8	171	--	6.0	5	--
KINGAGRO GG955	26.7	24	24	157.4	162	163	2.6	2	2
AMCORN PSX5555	27.0	25	25	154.0	167	162	4.4	4	4
*ANDERSONS PSX290	27.2	25	--	167.9	171	--	2.5	3	--
AVERAGE	24.0	22	22	151.7	159	152	6.4	4	4
RANGE	20.0	18	20	117.2	128	131	0.7	2	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	27.2	25	25	188.1	175	181	15.0	8	6
LEAST SIGNIFICANT DIFFERENCE	1.2			12.5					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

LATE TRIAL (continued)									
(101 DAY RELATIVE MATURITY OR LATER (BASED ON COMPANY RATING))									
HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
GOLDEN HARVEST H-2438	29.7	25	25	162.1	165	165	2.9	1	4
BLANEY B607WX	29.8	--	--	155.7	--	--	7.2	--	--
JACQUES 6770	29.8	--	--	149.3	--	--	2.6	--	--
*GREAT LAKES GL579	29.8	29	29	189.7	184	160	4.0	3	2
*PIONEER 3429	29.8	26	--	174.2	162	--	1.0	1	--
JUNG 2688	29.8	--	--	149.2	--	--	3.4	--	--
*RENK RK64	29.9	27	27	175.3	174	170	5.8	3	3
PIONEER X9514	30.0	--	--	168.8	--	--	1.5	--	--
MAUMEE VALLEY MV711	30.4	--	--	160.7	--	--	4.3	--	--
MAUMEE VALLEY MV762	30.5	27	28	145.6	164	141	1.6	2	1
RUPP XR2566	30.6	--	--	129.2	--	--	3.1	--	--
GRIES GSF-4130	30.8	--	--	162.9	--	--	3.7	--	--
MAUMEE VALLEY MV727	32.0	--	--	145.2	--	--	7.2	--	--
*GREAT LAKES GL582	32.1	31	31	186.1	181	164	3.0	2	1
RENK RK721	33.6	29	--	152.2	157	--	1.4	2	--
AVERAGE	28.3	25	26	157.0	165	160	4.2	3	2
RANGE	24.6	22	23	129.2	143	129	0.2	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	33.6	31	31	189.7	184	195	14.3	8	6
LEAST SIGNIFICANT DIFFERENCE	1.4			13.4					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

Table 13
ZONE 4—NORTHERN MICHIGAN—ALPENA COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
JUNG 2352	18.8	--	--	111.5	--	--	6.6	--	--
BLANEY B106	19.0	20	--	114.6	98	--	7.6	4	--
KING AGRO K127	19.5	19	--	99.5	94	--	4.7	2	--
JACQUES 2750	19.6	--	--	90.4	--	--	9.3	--	--
PICKSEED 2700	19.8	--	--	110.8	--	--	12.1	--	--
SUPER CROST 1548	19.9	21	--	106.3	89	--	5.5	5	--
GREAT LAKES GL220	20.1	--	--	105.1	--	--	4.2	--	--
PICKSEED 2600	20.5	--	--	118.0	--	--	9.1	--	--
AMCORN PSX1082	20.5	20	--	99.5	88	--	14.1	7	--
CROW'S 167	20.6	--	--	100.0	--	--	8.9	--	--
PICKSEED 2602	20.6	22	--	103.0	102	--	0.0	1	--
*SUPER CROST 1594	20.7	21	--	122.8	116	--	3.2	2	--
DAIRYLAND DX1186	20.7	--	--	102.1	--	--	3.1	--	--
*DAIRYLAND DX1192	20.8	--	--	122.9	--	--	4.1	--	--
JUNG 2365	20.8	--	--	115.2	--	--	5.6	--	--
*PIONEER 3794	20.9	--	--	129.6	--	--	3.9	--	--
DAIRYLAND DX1190	21.1	--	--	119.5	--	--	4.9	--	--
*JACQUES 4120	21.3	--	--	133.0	--	--	3.3	--	--
PICKSEED 2606	21.3	--	--	99.1	--	--	16.3	--	--
NORTHROP KING N2001	21.5	21	--	111.2	95	--	11.4	6	--
GREAT LAKES GL350	21.6	--	--	94.8	--	--	3.5	--	--
PICKSEED 2855	21.8	20	--	103.9	96	--	4.1	2	--
PIONEER 3779	22.0	22	23	102.1	81	90	2.2	2	2
KING AGRO K2204	22.0	22	23	87.0	97	99	6.7	4	4
JACQUES 4170	22.1	23	24	97.4	91	94	2.6	2	2
FUNK'S G-BRAND 4010	22.2	22	--	111.7	87	--	5.5	3	--
*PIONEER 3897	22.2	--	--	132.5	--	--	0.0	--	--
*JUNG 2444	22.2	--	--	121.4	--	--	1.6	--	--
NORTHROP KING N3624	23.3	23	--	102.9	99	--	6.5	4	--
DAIRYLAND DX1095	23.9	--	--	95.0	--	--	11.0	--	--
PICKSEED 5665	24.3	--	--	112.7	--	--	5.3	--	--
PICKSEED 61-197	24.6	--	--	102.3	--	--	3.6	--	--
*JUNG 2496	24.7	--	--	131.6	--	--	3.2	--	--
PIONEER 3751	25.2	24	24	107.9	107	112	4.2	3	2
PICKSEED 5545	25.2	--	--	107.9	--	--	12.6	--	--
*GREAT LAKES GL446	25.9	--	--	140.7	--	--	3.4	--	--
*CARGILL 3427	26.4	--	--	141.8	--	--	2.9	--	--
GREAT LAKES GL420	26.5	26	25	94.3	106	107	6.0	3	3
*PIONEER 3733	26.7	--	--	128.4	--	--	0.8	--	--
BLANEY B405	27.1	27	--	89.6	100	--	2.2	1	--
BLANEY B102WX	33.4	--	--	99.4	--	--	0.9	--	--
AVERAGE	22.5	22	24	110.2	97	100	5.5	3	2
RANGE	18.8	19	23	87.0	81	90	0.0	1	2
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	33.4	27	25	141.8	116	112	16.3	7	4
LEAST SIGNIFICANT DIFFERENCE	1.3			10.6					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

Table 14 (continued)
ZONE 4—NORTHERN MICHIGAN—MENOMINEE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHEL PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
BLANEY B102WX	35.7	--	--	76.9	--	--	5.9	--	--
NORTHROP KING N3624	37.1	--	--	81.1	--	--	4.3	--	--
SUPER CROST 1594	37.4	--	--	73.7	--	--	15.3	--	--
PICKSEED 61-197	37.6	--	--	72.5	--	--	10.2	--	--
*GREAT LAKES GL446	38.6	--	--	89.9	--	--	8.8	--	--
DAIRYLAND DX1186	38.8	--	--	69.2	--	--	7.8	--	--
*CARGILL 3427	39.1	--	--	89.9	--	--	13.4	--	--
*JUNG 2496	39.5	40	--	89.6	102	--	8.8	4	--
DAIRYLAND DX1092	39.8	--	--	71.9	--	--	4.6	--	--
BLANEY B405	41.1	--	--	78.9	--	--	8.3	--	--
PICKSEED 5545	43.5	--	--	66.1	--	--	10.4	--	--
*PIONEER 3733	43.7	--	--	86.7	--	--	3.4	--	--
AVERAGE	32.6	29	24	77.0	95	99	9.5	5	4
RANGE	25.5	24	23	49.1	84	97	0.4	0	3
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	43.7	40	25	98.9	103	102	19.7	8	6
LEAST SIGNIFICANT DIFFERENCE	3.5			9.7					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

	1990	1989	1988
PLANTED	MAY 3	MAY 9	MAY 5
HARVESTED	NOVEMBER 8	OCTOBER 11	OCTOBER 17
SOIL TYPE	ONAWAY LOAM	ONAWAY LOAM	ONAWAY LOAM
PREVIOUS CROP	CORN	CORN	HAY
POPULATION	23,300	19,800	21,200
ROWS	34"	34"	32"
FERTILIZER	122-30-30 + 10 TONS MANURE	124-30-66 + 10 TONS MANURE	90-92-106
SOIL TEST: pH	7.3	7.3	6.2
P	97 (HIGH)	97 (HIGH)	46 (MEDIUM)
K	168 (MEDIUM)	168 (MEDIUM)	195 (MEDIUM)

FARM COOPERATOR: Steve Berzsenyi, Stephenson

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

COUNTY EXTENSION DIRECTOR: Michael Erdman, Stephenson

(continued below)

	1990	1989	1988
PLANTED	MAY 18	MAY 19	MAY 6
HARVESTED	NOVEMBER 16	NOVEMBER 3	OCTOBER 31
SOIL TYPE	SELKIRK LOAM	SELKIRK LOAM	SELKIRK LOAM
PREVIOUS CROP	NAVY BEANS	KIDNEY BEANS	DRY BEANS
POPULATION	16,000	17,600	20,000
ROWS	30"	30"	30"
FERTILIZER	124-96-96	96-72-72	100-72-72
SOIL TEST: pH	7.1	6.2	7.1
P	50 (MEDIUM)	118 (VERY HIGH)	128 (VERY HIGH)
K	187 (MEDIUM)	168 (MEDIUM)	271 (HIGH)

FARM COOPERATOR: Allen Schiellerd, Hubbard Lake

COUNTY EXTENSION DIRECTOR: John Middleton, Alpena

Table 15
ZONE 4—NORTHERN MICHIGAN—AVERAGE OF
ALPENA & MENOMINEE COUNTY TRIALS
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
KING AGRO K127	22.7	21	22	87.5	95	97	6.4	3	3
PICKSEED 2602	23.3	24	--	92.4	94	--	1.6	2	--
AMCORN PSX 1082	23.4	21	--	85.8	81	--	16.8	8	--
PICKSEED 2855	23.7	23	--	95.1	96	--	9.4	5	--
PICKSEED 2606	23.9	--	--	85.5	--	--	15.9	--	--
PICKSEED 2600	23.9	--	--	86.1	--	--	10.5	--	--
PICKSEED 2700	24.1	--	--	91.5	--	--	13.5	--	--
JUNG 2352	24.2	--	--	93.7	--	--	5.8	--	--
GREAT LAKES GL220	24.5	23	--	86.2	95	--	7.8	5	--
BLANEY B106	25.0	24	--	92.2	96	--	7.1	4	--
NORTHROP KING N2001	25.0	24	--	96.1	99	--	11.9	7	--
PIONEER 3897	25.4	--	--	99.4	--	--	8.0	--	--
FUNK'S G-BRAND 4010	25.5	24	--	91.9	77	--	6.3	3	--
SUPER CROST 1548	25.5	23	--	90.6	82	--	7.0	6	--
GREAT LAKES GL350	25.5	--	--	83.1	--	--	11.6	--	--
JACQUES 2750	25.6	24	23	88.6	100	102	10.8	7	5
JUNG 2365	26.2	26	--	98.6	105	--	7.1	4	--
*PIONEER 3794	26.6	--	--	106.9	--	--	6.4	--	--
CROW'S 167	26.7	--	--	86.1	--	--	6.9	--	--
*JACQUES 4120	26.8	--	--	116.0	--	--	7.1	--	--
DAIRYLAND DX1192	27.2	--	--	99.1	--	--	5.2	--	--
DAIRYLAND DX1190	27.4	--	--	95.9	--	--	6.3	--	--
PIONEER 3779	27.7	27	26	90.5	88	94	1.3	1	1
KING AGRO K2204	27.7	25	25	86.3	97	99	7.9	5	4
JUNG 2444	28.1	31	--	99.5	95	--	5.4	3	--
PICKSEED 5665	28.7	--	--	100.2	--	--	6.4	--	--
JACQUES 4170	28.9	26	26	86.6	85	91	4.7	3	2
SUPER CROST 1594	29.1	26	--	98.3	104	--	9.3	5	--
PIONEER 3751	29.7	28	27	95.0	103	109	6.4	3	2
DAIRYLAND DX1186	29.8	--	--	85.7	--	--	5.5	--	--
NORTHROP KING N3624	30.2	27	--	92.0	94	--	5.4	4	--
GREAT LAKES GL420	30.9	28	27	86.3	102	110	6.3	3	2
PICKSEED 61-197	31.1	--	--	87.4	--	--	6.9	--	--
DAIRYLAND DX1095	31.9	--	--	83.5	--	--	7.8	--	--
*JUNG 2496	32.1	36	--	110.6	113	--	6.0	3	--
*GREAT LAKES GL446	32.3	--	--	115.3	--	--	6.1	--	--
*CARGILL 3427	32.8	--	--	115.9	--	--	8.2	--	--
BLANEY B405	34.1	31	--	84.3	97	--	5.3	3	--
PICKSEED 5545	34.4	--	--	87.0	--	--	11.5	--	--
BLANEY B102WX	34.6	--	--	88.2	--	--	3.4	--	--
*PIONEER 3733	35.2	--	--	107.6	--	--	2.1	--	--
AVERAGE	27.8	26	25	93.9	95	100	7.8	4	3
RANGE	22.7	21	22	83.1	77	91	1.3	1	1
	TO	TO	TO	TO	TO	TO	TO	TO	TO
	35.2	36	27	116.0	113	110	16.8	8	5
LEAST SIGNIFICANT DIFFERENCE	3.1			12.1					

*SIGNIFICANTLY BETTER THAN AVERAGE YIELD IN 1990

Table 14

ZONE 4—NORTHERN MICHIGAN—MENOMINEE COUNTY TRIAL
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

HYBRID (BRAND-VARIETY)	% MOISTURE			BUSHELS PER ACRE			% STALK LODGING		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
PICKSEED 2855	25.5	25	--	86.2	97	--	14.7	8	--
KING AGRO K127	25.9	24	23	75.5	95	97	8.1	4	3
PICKSEED 2602	26.0	25	--	81.7	87	--	3.2	2	--
AMCORN PSX 1082	26.2	--	--	72.0	--	--	19.5	--	--
NORTHROP KING PX9060	26.3	--	--	49.1	--	--	14.2	--	--
PICKSEED 2606	26.4	--	--	71.8	--	--	15.5	--	--
PICKSEED 2600	27.3	--	--	54.2	--	--	11.9	--	--
CENEX LOL213	27.9	--	--	72.2	--	--	15.8	--	--
*CENEX LOL809	28.2	--	--	90.0	--	--	11.7	--	--
NORTHROP KING N2001	28.4	27	--	81.0	103	--	12.3	7	--
PICKSEED 2700	28.4	--	--	72.2	--	--	14.9	--	--
PIONEER 3897	28.5	--	--	66.2	--	--	16.0	--	--
FUNKS G-BRAND 4010	28.7	--	--	72.1	--	--	7.0	--	--
GREAT LAKES GL220	28.8	25	--	67.3	86	--	11.4	7	--
WOLF RIVER VALLEY 9085	29.3	28	--	77.0	92	--	6.6	4	--
GREAT LAKES GL350	29.4	--	--	71.4	--	--	19.7	--	--
JUNG 2352	29.6	--	--	75.9	--	--	4.9	--	--
WOLF RIVER VALLEY 9090	30.9	--	--	79.5	--	--	8.2	--	--
BLANEY B106	31.0	28	--	69.8	95	--	6.5	4	--
SUPER CROST 1548	31.0	--	--	74.8	--	--	8.4	--	--
JUNG 2365	31.5	29	--	81.9	97	--	8.6	5	--
*JACQUES 2750	31.6	27	25	86.7	99	102	12.3	8	6
*JACQUES 4120	32.2	--	--	98.9	--	--	10.8	--	--
PIONEER 3794	32.2	--	--	84.1	--	--	8.8	--	--
CROW'S 167	32.8	--	--	72.2	--	--	4.8	--	--
*PICKSEED 5665	33.1	--	--	87.6	--	--	7.5	--	--
KING AGRO K2204	33.3	--	--	85.6	--	--	9.0	--	--
PIONEER 3779	33.4	32	--	78.8	94	--	0.4	0	--
DAIRYLAND DX1192	33.6	--	--	75.3	--	--	6.3	--	--
DAIRYLAND DX1190	33.7	--	--	72.3	--	--	7.6	--	--
JUNG 2444	33.9	34	--	77.6	84	--	9.2	5	--
PIONEER 3751	34.2	33	--	82.1	99	--	8.6	4	--
CENEX LOL232	34.3	--	--	75.7	--	--	6.6	--	--
GREAT LAKES GL420	35.2	--	--	78.2	--	--	6.5	--	--
JACQUES 4170	35.6	--	--	75.8	--	--	6.8	--	--

Table 16
ZONE 2—SOUTH CENTRAL MICHIGAN—
INGHAM COUNTY TRIAL—SILAGE
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
PIONEER 3751	39.9	35.4	38.3	17.3	16.2	14.9	6.9	5.9	5.7
CARGILL 3637	39.4	--	--	14.1	--	--	5.6	--	--
GREAT LAKES GL509	37.5	33.9	--	17.5	19.1	--	6.6	6.5	--
AMCORN PSX9292	36.4	--	--	24.6	--	--	9.0	--	--
PIONEER 3733	35.4	--	--	17.1	--	--	6.1	--	--
PIONEER 3718	35.3	34.6	--	21.9	22.2	--	7.7	7.6	--
PIONEER X9514	34.7	--	--	21.7	--	--	7.5	--	--
RENK RK64	34.6	32.4	35.1	21.3	22.7	19.5	7.3	7.3	6.6
GREAT LAKES GL579	33.8	32.8	33.8	21.7	21.8	20.2	7.3	7.1	6.8
CALLAHAN C759	33.7	--	--	22.4	--	--	7.5	--	--
BLANEY B607	33.2	32.2	--	22.8	23.0	--	7.6	7.4	--
RENK RK646	33.1	--	--	18.8	--	--	6.2	--	--
RENK RK702	32.2	29.3	--	19.5	20.6	--	6.3	6.0	--
CROW'S 380	32.1	31.7	--	19.4	20.0	--	6.2	6.3	--
PROVICO 811	31.9	--	--	19.7	--	--	6.3	--	--
PIONEER 3429	31.6	30.1	--	28.2	27.9	--	8.9	8.4	--
PIONEER 3475	31.6	30.9	33.0	22.4	23.9	19.7	7.1	7.4	6.3
PIONEER 3573	31.3	31.2	--	21.4	21.6	--	6.7	6.7	--
MAUMEE VALLEY MV812	31.1	32.6	35.4	22.0	23.2	19.9	6.8	7.5	6.8
CROW'S SL32	30.5	--	--	20.0	--	--	6.1	--	--
PIONEER 3417	30.4	--	--	20.3	--	--	6.1	--	--
GRIES GSF-4460	30.2	31.0	--	24.5	24.1	--	7.4	7.4	--
GRIES GSF-X580	29.8	--	--	21.5	--	--	6.4	--	--
BLANEY B702	29.7	29.5	--	22.0	24.5	--	6.5	7.2	--
MAUMEE VALLEY MV762	29.6	31.0	33.4	22.1	24.0	21.8	6.5	7.4	7.2
PIONEER 3527	29.0	--	--	25.3	--	--	7.3	--	--
PROVICO 970	29.0	--	--	24.7	--	--	7.2	--	--
MAUMEE VALLEY MV711	28.6	--	--	23.4	--	--	6.7	--	--
SUPER CROST A3051	27.8	--	--	25.6	--	--	7.1	--	--
GRIES GSF-4103	27.3	--	--	21.3	--	--	5.9	--	--
PIONEER 3503	27.2	--	--	21.0	--	--	5.7	--	--
GREAT LAKES GL582	26.8	25.8	28.8	24.2	25.5	23.2	6.5	6.6	6.5
RENK RK721	26.8	26.9	--	25.2	24.9	--	6.8	6.7	--
NORTHROP KING S7838WX	26.5	--	--	25.7	--	--	6.8	--	--
CARGILL 4327	25.4	--	--	24.2	--	--	6.2	--	--
MAUMEE VALLEY MV819	24.3	--	--	25.9	--	--	6.3	--	--
PROVICO 880	24.0	--	--	26.7	--	--	6.4	--	--
AVERAGE	31.1	31.3	34.0	22.1	22.7	19.9	6.8	7.0	6.6
RANGE	24.0	25.8	28.8	14.1	16.2	14.9	5.6	5.9	5.7
	39.9	35.4	38.3	28.2	27.9	23.2	9.0	8.4	7.2

	1990	1989	1988
PLANTED	MAY 8	APRIL 27	MAY 3
HARVESTED	SEPTEMBER 13	SEPTEMBER 15	SEPTEMBER 2
SOIL TYPE	CAPAC LOAM	CAPAC LOAM	CAPAC LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	20,200	19,400	22,100
ROWS	30"	36"	36"
FERTILIZER	165-50-50	165-50-50	165-50-50
SOIL TEST: pH	6.1	6.1	6.1
P	93 (HIGH)	156 (VERY HIGH)	160 (VERY HIGH)
K	200 (MEDIUM)	228 (HIGH)	240 (HIGH)

FARM COOPERATOR: Michigan State University, East Lansing

COUNTY EXTENSION DIRECTOR: Marvin Preston, Mason

Table 17
ZONE 3—NORTH CENTRAL MICHIGAN—
HURON COUNTY TRIAL—SILAGE
ONE, TWO, THREE YEAR AVERAGES—1990, 1989, 1988

HYBRID (BRAND-VARIETY)	TONS PER ACRE								
	DRY MATTER			GREEN WEIGHT			DRY WEIGHT		
	1990	2 YR	3 YR	1990	2 YR	3 YR	1990	2 YR	3 YR
TERRA TR940	34.0	--	--	19.0	--	--	6.5	--	--
BLANEY B405	33.1	33.1	--	22.4	22.2	--	7.4	7.3	--
GREAT LAKES GL446	32.8	33.3	--	20.8	21.9	--	6.8	7.3	--
PIONEER 3733	32.8	--	--	22.4	--	--	7.3	--	--
RENK RK646	31.4	--	--	22.8	--	--	7.2	--	--
GREAT LAKES GL420	31.3	34.1	35.3	21.0	19.8	17.5	6.6	6.7	6.1
TOP FARM TFSX1101	30.9	--	--	18.6	--	--	5.7	--	--
PICKSEED 61-197	30.2	--	--	20.7	--	--	6.2	--	--
TERRA TR1020	30.1	--	--	22.9	--	--	6.9	--	--
MAUMEE VALLEY MV526	29.8	--	--	21.6	--	--	6.4	--	--
PICKSEED 5665	29.8	34.3	--	23.3	22.1	--	6.9	7.5	--
PICKSEED 5545	29.6	31.4	--	20.3	19.8	--	6.0	6.1	--
RENK RK505	29.2	31.6	32.4	18.8	18.7	16.6	5.5	5.9	5.3
GREAT LAKES GL482	28.9	30.6	33.2	23.9	21.3	19.1	6.9	6.5	6.2
GREAT LAKES GL579	28.6	29.3	29.8	26.9	25.1	22.4	7.7	7.3	6.6
RENK R138	28.3	30.6	31.0	24.3	23.0	18.9	6.9	7.0	5.8
BLANEY B505	28.1	29.8	--	23.7	22.8	--	6.6	6.8	--
PICKSEED 71-826	27.8	--	--	21.9	--	--	6.1	--	--
PIONEER 3718	27.6	30.1	--	24.3	23.4	--	6.7	7.0	--
PIONEER 3751	27.3	28.6	30.8	25.3	22.6	18.6	7.0	6.5	5.6
RENK RK650	27.0	--	--	23.3	--	--	6.3	--	--
MAUMEE VALLEY MV762	26.9	28.5	27.8	24.5	22.8	19.1	6.6	6.5	5.4
CARGILL 3637	26.8	--	--	23.4	--	--	6.2	--	--
RENK RK64	26.6	28.3	28.4	26.8	24.9	20.7	7.2	7.0	5.9
TERRA TR1040	26.4	28.8	29.6	27.5	25.7	21.6	7.3	7.4	6.3
PIONEER 3779	26.1	29.2	29.8	24.2	24.8	20.7	6.3	7.2	6.1
MAUMEE VALLEY MV711	25.7	--	--	26.2	--	--	6.8	--	--
TOP FARM TFSX1109	25.7	--	--	25.4	--	--	6.5	--	--
PIONEER 3573	25.6	28.0	--	23.7	24.1	--	6.0	6.7	--
PIONEER 3475	25.3	27.2	28.8	25.5	27.9	23.0	6.5	7.7	6.5
PROVICO 751	25.3	--	--	24.2	--	--	6.1	--	--
CROW'S 380	25.3	--	--	26.8	--	--	6.8	--	--
TERRA TR59	24.9	24.7	25.7	30.8	30.6	26.5	7.7	7.5	6.7
PIONEER 3503	24.8	--	--	23.2	--	--	5.8	--	--
GREAT LAKES GL599	24.7	25.5	26.0	30.4	27.3	25.4	7.5	6.9	6.6
SUPER CROST 2979	24.0	--	--	25.7	--	--	6.2	--	--
BLANEY B607WX	23.9	--	--	24.3	--	--	5.8	--	--
AMCORN PSX 8181	23.9	--	--	25.7	--	--	6.2	--	--
TOP FARM TF399	23.8	--	--	21.6	--	--	5.1	--	--
PIONEER 3527	23.6	--	--	29.6	--	--	7.0	--	--
PROVICO 811	23.6	--	--	23.6	--	--	5.6	--	--
RENK RK76	23.1	24.3	26.1	30.8	31.6	25.7	7.1	7.7	6.5
GREAT LAKES GL582	22.6	24.3	26.1	27.8	26.9	24.3	6.3	6.6	6.3
PIONEER 3429	22.6	25.7	--	29.6	28.0	--	6.7	7.1	--
RENK RK721	22.0	23.6	--	28.9	26.0	--	6.4	6.1	--
AMCORN PSX9292	21.8	25.9	--	31.3	29.3	--	6.8	7.5	--
CROW'S SL32	21.6	--	--	24.9	--	--	5.4	--	--
PROVICO 880	20.7	--	--	27.3	--	--	5.7	--	--
AVERAGE	26.8	28.8	29.4	24.6	24.5	21.3	6.5	7.0	6.1
RANGE	20.7	23.6	25.7	18.6	18.7	16.6	5.1	5.9	5.3
	34.0	34.3	35.3	31.3	31.6	26.5	7.7	7.7	6.7

(continued below)

	1990	1989	1988
PLANTED	MAY 14	MAY 10	MAY 5
HARVESTED	SEPTEMBER 20	SEPTEMBER 18	SEPTEMBER 18
SOIL TYPE	KILMANAGH LOAM	KILMANAGH LOAM	KILMANAGH LOAM
PREVIOUS CROP	CORN	CORN	CORN
POPULATION	24,800	21,200	20,100
ROWS	30"	30"	30"
FERTILIZER	163-57-98	193-49-97	177-62-99
SOIL TEST: pH	7.6	7.8	6.1
P	140 (VERY HIGH)	104 (VERY HIGH)	127 (VERY HIGH)
K	187 (MEDIUM)	172 (MEDIUM)	263 (HIGH)

FARM COOPERATOR: William McCrea, Bad Axe

EXTENSION AGRICULTURAL AGENT: Jim LeCureaux, Bad Axe

Table 18

Index for 319 Hybrids from 42 seed companies entered in 1520 county tests in the 1990 Michigan Corn Performance Trials. Numbers within parentheses refer to table numbers in which the hybrid appears. Company names used in association with hybrid numbers refer to the brand and the numbers are the variety (hybrid) designation.

Amcorr. Hybrids, Inc.

Amcorn PSX1082 (13,14,15)
Amcorn PSX1122 (9,10,11,12)
Amcorn PSX3333 (9,10,11,12)
Amcorn PSX5555 (5,6,7,8,9,10,11,12)

Amcorn PSX6363 (1,2,3,4,5,6,7,8,9,10,11,12)
Amcorn PSX7450 (1,2,3,4)
Amcorn PSX8181 (1,2,3,4,5,6,7,8,17)
Amcorn PSX9292 (1,2,3,4,5,6,7,8,16,17)

The Andersons

Andersons PSX290 (9,10,11,12)
Andersons PSX340 (9,10,11,12)
Andersons PSX345 (5,6,7,8)
Andersons PSX360 (5,6,7,8)

Andersons PSX370 (1,2,3,4,5,6,7,8)
Andersons PSX380 (1,2,3,4)
Andersons PSX405 (1,2,3,4)

Asgrow Seed Co.

Asgrow RX337 (5,6,7,8,9,10,11,12)
Asgrow RX406 (5,6,7,8,9,10,11,12)
Asgrow RX409 (5,6,7,8,9,10,11,12)
Asgrow RX469 (5,6,7,8,9,10,11,12)
Asgrow RX578 (1,2,3,4,5,6,7,8,9,10,11,12)

Asgrow RX626 (1,2,3,4,5,6,7,8,9,10,11,12)
Asgrow RX706 (1,2,3,4,5,6,7,8)
Asgrow RX727 (1,2,3,4)
Asgrow RX746 (1,2,3,4)

Beck's Hybrids

Beck's 54XA (1,2,3,4)
Beck's 57X (1,2,3,4)
Beck's 62XA (1,2,3,4)

Beck's 63X (1,2,3,4)
Beck's 66X (1,2,3,4)
Beck's 74X (1,2,3,4)

Betaseed, Inc.

Betagold HANNA (5,6,7,8,9,10,11,12)
Betagold IDA (9,10,11,12)
Betagold INGRID (9,10,11,12)
Betagold KARLA (9,10,11,12)

Betagold KATRINA (5,6,7,8,9,10,11,12)
Betagold MARIA (5,6,7,8)
Betagold MARTA (5,6,7,8)

Richard Blaney Seeds, Inc.

Blaney B102WX (9,10,11,12,13,14,15)
Blaney B106 (13,14,15)
Blaney B305 (9,10,11,12)
Blaney B405 (5,6,7,8,9,10,11,12,13,14,15,17)
Blaney B505 (1,2,3,4,5,6,7,8,9,10,11,12,17)

Blaney B602WX (1,2,3,4)
Blaney B607 (5,6,7,8,16)
Blaney B607WX (1,2,3,4,9,10,11,12,17)
Blaney B702 (1,2,3,4,5,6,7,8,16)
Blaney B702WX (1,2,3,4)

Callahan Seeds

Callahan C725 (9,10,11,12)
Callahan C729 (9,10,11,12)
Callahan C743 (1,2,3,4,5,6,7,8,9,10,11,12)
Callahan C748 (1,2,3,4,5,6,7,8)

Callahan C759 (1,2,3,4,5,6,7,8,16)
Callahan C764 (1,2,3,4,5,6,7,8)
Callahan C765 (1,2,3,4)
Callahan 21903X (5,6,7,8)
Callahan 21916X (5,6,7,8)

Cargill Hybrids Seeds

Cargill SX269 (1,2,3,4,5,6,7,8)
Cargill 3427 (9,10,11,12,13,14,15)
Cargill 3627 (9,10,11,12)
Cargill 3637 (9,10,11,12,16,17)
Cargill 4227 (9,10,11,12)
Cargill 4327 (5,6,7,8,9,10,11,12,16)
Cargill 5157 (9,10,11,12)

Cargill 5327 (5,6,7,8,9,10,11,12)
Cargill 6127 (5,6,7,8)
Cargill 6227 (1,2,3,4,5,6,7,8)
Cargill 6827 (1,2,3,4)
Cargill 6927 (1,2,3,4)
Cargill 7877 (1,2,3,4)
Cargill 7993 (1,2,3,4)
Cargill 8027 (1,2,3,4)

Stephenson Marketing

Cenex LOL213 (14)
Cenex LOL232 (14)

Cenex LOL809 (14)

Countrymark, Inc.

Countrymark C343X (9,10,11,12)
Countrymark C363X (9,10,11,12)
Countrymark C434X (5,6,7,8,9,10,11,12)

Countrymark C565X (1,2,3,4,5,6,7,8)
Countrymark C660X (1,2,3,4)

Crow's Hybrid Corn Co.

Crow's SL32 (16,17)
Crow's 167 (9,10,11,12,13,14,15)
Crow's 210 (1,2,3,4,5,6,7,8)
Crow's 227 (5,6,7,8,9,10,11,12)
Crow's 237 (1,2,3,4,5,6,7,8,9,10,11,12)

Crow's 380 (5,6,7,8,9,10,11,12,16,17)
Crow's 414 (9,10,11,12)
Crow's 449 (1,2,3,4,5,6,7,8)
Crow's 488 (1,2,3,4)
Crow's 498 (1,2,3,4)

Dairyland Seed Co., Inc.

Dairyland DX1095 (9,10,11,12,13,14,15)
Dairyland DX1100 (5,6,7,8,9,10,11,12)
Dairyland DX1103 (5,6,7,8,9,10,11,12)
Dairyland DX1106 (1,2,3,4)

Dairyland DX1110 (1,2,3,4,5,6,7,8)
Dairyland DX1117 (1,2,3,4)
Dairyland DX1186 (13,14,15)
Dairyland DX1190 (13,14,15)
Dairyland DX1192 (9,10,11,12,13,14,15)
Dairyland DX1204 (1,2,3,4,5,6,7,8)

Dekalb Plant Genetics

Dekalb DK451 (5,6,7,8,9,10,11,12)
Dekalb DK485 (5,6,7,8,9,10,11,12)
Dekalb DK524 (1,2,3,4,5,6,7,8,9,10,11,12)

Dekalb DK535 (1,2,3,4,5,6,7,8,9,10,11,12)
Dekalb DK550 (1,2,3,4,5,6,7,8)
Dekalb DK636 (1,2,3,4)

United Agri Products

DynaGro 5243 (9,10,11,12)
DynaGro 5312 (5,6,7,8,9,10,11,12)
DynaGro 5351 (1,2,3,4,5,6,7,8,9,10,11,12)

DynaGro 5410 (1,2,3,4,5,6,7,8)
DynaGro 5470 (1,2,3,4)

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(continued on next page)

Table 18 (continued)

CIBA-GEIGY Seed Division

Funk's G-BRAND 4010 (13,14,15)
 Funk's G-BRAND 4160 (9,10,11,12)
 Funk's G-BRAND 4260 (9,10,11,12)
 Funk's G-BRAND 4299 (9,10,11,12)
 Funk's G-BRAND 4309 (9,10,11,12)
 Funk's G-BRAND 4393 (5,6,7,8)

Funk's G-BRAND 4385 (5,6,7,8)
 Funk's G-BRAND 4450 (5,6,7,8)
 Funk's G-BRAND 4472 (1,2,3,4)
 Funk's G-BRAND 4485 (1,2,3,4)
 Funk's G-BRAND 4490 (1,2,3,4)
 Funk's G-BRAND 4530 (1,2,3,4)

Ken Garno Seeds

Garno S-101XX (1,2,3,4)
 Garno S-102XX (1,2,3,4)

Garno S-103XX (1,2,3,4)

Garst Seed Co.

Garst 8344 (1,2,3,4)
 Garst 8505 (1,2,3,4)
 Garst 8519 (1,2,3,4)
 Garst 8574 (1,2,3,4,5,6,7,8)
 Garst 8599 (1,2,3,4,5,6,7,8,9,10,11,12)

Garst 8708 (5,6,7,8,9,10,11,12)
 Garst 8808 (9,10,11,12)
 Garst 8882 (9,10,11,12)
 Garst 8952 (9,10,11,12)

GEN-Tech Farm Seed, Inc.

Gen-tech 1098 (1,2,3,4)

Sommer Bros. Seed Co.

Golden Harvest H-2331 (5,6,7,8,9,10,11,12)
 Golden Harvest H-2343 (5,6,7,8,9,10,11,12)
 Golden Harvest H-2404 (5,6,7,8,9,10,11,12)
 Golden Harvest H-2410 (5,6,7,8,9,10,11,12)

Golden Harvest H-2438 (5,6,7,8,9,10,11,12)
 Golden Harvest H-2465 (1,2,3,4,5,6,7,8,9,10,11,12)
 Golden Harvest H-2525 (1,2,3,4)
 Golden Harvest H-2532 (1,2,3,4)
 Golden Harvest H-2572 (1,2,3,4)
 Golden Harvest H-2583 (1,2,3,4)

Great Lakes Hybrids, Inc.

Great Lakes GL220 (13,14,15)
 Great Lakes GL350 (9,10,11,12,13,14,15)
 Great Lakes GL420 (9,10,11,12,13,14,15,17)
 Great Lakes GL446 (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17)
 Great Lakes GL459 (5,6,7,8,9,10,11,12)
 Great Lakes GL482 (1,2,3,4,5,6,7,8,9,10,11,12,17)
 Great Lakes GL509 (1,2,3,4,5,6,7,8,9,10,11,12,16)

Great Lakes GL541 (1,2,3,4,5,6,7,8,9,10,11,12)
 Great Lakes GL566 (1,2,3,4,5,6,7,8)
 Great Lakes GL579 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Great Lakes GL582 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Great Lakes GL590 (1,2,3,4)
 Great Lakes GL595 (1,2,3,4)
 Great Lakes GL599 (1,2,3,4,17)

Gries Seed Farms, Inc.

Gries GFS-X580 (1,2,3,4,5,6,7,8,16)
 Gries GFS-2190 (9,10,11,12)

Gries GFS-4103 (9,10,11,12,16)
 Gries GFS-4460 (1,2,3,4,5,6,7,8,9,10,11,12,16)

Fred Gutwein & Sons

Gutwein 2191 (5,6,7,8)
 Gutwein 2258 (1,2,3,4,5,6,7,8)
 Gutwein 2412 (1,2,3,4,5,6,7,8)

Gutwein 2484 (1,2,3,4)
 Gutwein 2605 (1,2,3,4)

Jacques Seed Co.

Jacques 2750 (13,14,15)
 Jacques 4120 (13,14,15)
 Jacques 4170 (13,14,15)
 Jacques 4770 (9,10,11,12)
 Jacques 4900 (9,10,11,12)

Jacques 5170 (5,6,7,8,9,10,11,12)
 Jacques 6770 (1,2,3,4,5,6,7,8,9,10,11,12)
 Jacques 7820 (1,2,3,4,5,6,7,8)
 Jacques 7910 (1,2,3,4)

Jung Farms, Inc.

Jung 2352 (13,14,15)
 Jung 2365 (13,14,15)
 Jung 2444 (13,14,15)

Jung 2496 (9,10,11,12,13,14,15)
 Jung 2640 (9,10,11,12)
 Jung 2688 (9,10,11,12)

Kaltenberg Seed Farms

Kaltenberg K4300 (9,10,11,12)

Kaltenberg K5200 (9,10,11,12)

Northrup King Co.

Northrup King N2001 (13,14,15)
 Northrup King N3624 (5,6,7,8,9,10,11,12,13,14,15)
 Northrup King N4350 (9,10,11,12)
 Northrup King N4428 (5,6,7,8,9,10,11,12)
 Northrup King N4545 (1,2,3,4,5,6,7,8)

Northrup King S4590 (9,10,11,12)
 Northrup King S5340 (5,6,7,8)
 Northrup King N6330 (1,2,3,4,5,6,7,8)
 Northrup King N6560 (1,2,3,4)
 Northrup King S7838WX (16)
 Northrup King PX9060 (14)
 Northrup King PX9540 (1,2,3,4)

Pickseed Canada, Inc.

Pickseed 2600 (13,14,15)
 Pickseed 2602 (13,14,15)
 Pickseed 2606 (13,14,15)
 Pickseed 2700 (13,14,15)
 Pickseed 2855 (13,14,15)
 Pickseed 5545 (9,10,11,12,13,14,15,17)
 Pickseed 5577 (5,6,7,8,9,10,11,12)

Pickseed 5665 (9,10,11,12,13,14,15,17)
 Pickseed 61-197 (9,10,11,12,13,14,15,17)
 Pickseed 71-305 (5,6,7,8)
 Pickseed 71-309 (5,6,7,8)
 Pickseed 71-826 (9,10,11,12,17)

Pioneer Hi-Bred International, Inc.

Pioneer 3241 (1,2,3,4)
 Pioneer 3245 (1,2,3,4)
 Pioneer 3343 (1,2,3,4)
 Pioneer 3379 (1,2,3,4)
 Pioneer 3417 (1,2,3,4,5,6,7,8,16)
 Pioneer 3429 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Pioneer 3475 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Pioneer 3503 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Pioneer 3527 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)

Pioneer 3573 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Pioneer 3718 (5,6,7,8,16)
 Pioneer 3733 (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
 Pioneer 3751 (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17)
 Pioneer 3779 (9,10,11,12,13,14,15,17)
 Pioneer 3794 (13,14,15)
 Pioneer 3897 (13,14,15)
 Pioneer X9514 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Pioneer X9628 (1,2,3,4)

Prairie Stream Farms, Inc.

Prairie Stream SX420 (1,2,3,4)

Prairie Stream EX475 (1,2,3,4)

Provico Seeds

Provico 710 (1,2,3,4,5,6,7,8,9,10,11,12)
 Provico 751 (1,2,3,4,5,6,7,8,9,10,11,12,17)
 Provico 810 (5,6,7,8,9,10,11,12)
 Provico 811 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)

Provico 850 (1,2,3,4,5,6,7,8)
 Provico 880 (1,2,3,4,5,6,7,8,16,17)
 Provico 920 (1,2,3,4)
 Provico 970 (1,2,3,4,16)

Renk Seed Co.

Renk RK64 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Renk RK76 (1,2,3,4,17)
 Renk R138 (9,10,11,12,17)
 Renk RK430 (9,10,11,12)
 Renk RK505 (9,10,11,12,17)
 Renk RK534 (9,10,11,12)
 Renk RK602 (9,10,11,12)

Renk RK646 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Renk RK650 (9,10,11,12,17)
 Renk RK702 (1,2,3,4,5,6,7,8,16)
 Renk RK721 (1,2,3,4,5,6,7,8,9,10,11,12,16,17)
 Renk RK803 (1,2,3,4)

Rupp Seeds, Inc.

Rupp XR1494 (9,10,11,12)
 Rupp XR1527 (5,6,7,8)
 Rupp XR1626 (5,6,7,8)

Rupp XR1739 (1,2,3,4)
 Rupp XR1829 (1,2,3,4)
 Rupp XR2566 (1,2,3,4,5,6,7,8,9,10,11,12)

Seedex, Inc.

Seedex 1035 (1,2,3,4,5,6,7,8)
 Seedex 1085 (1,2,3,4)

Seedex 1090 (1,2,3,4,5,6,7,8)
 Seedex 1259 (1,2,3,4,5,6,7,8)

Edward J. Funk & Sons, Inc.

Supercrost 1548 (13,14,15)
 Supercrost 1594 (13,14,15)
 Supercrost 1900 (9,10,11,12)
 Supercrost 2000 (5,6,7,8)
 Supercrost T2040 (9,10,11,12)

Supercrost 2277 (9,10,11,12)
 Supercrost 2979 (5,6,7,8,17)
 Supercrost A3051 (16)
 Supercrost 4877 (1,2,3,4)

(continued below)

(continued below)

King Agro, Inc.

King K127 (13,14,15)
King K299 (9,10,11,12)
King K416 (9,10,11,12)
King K448 (9,10,11,12)
King K470 (1,2,3,4,5,6,7,8,9,10,
11,12)
King K499 (1,2,3,4,5,6,7,8)

Leader Seeds, Inc.

Leader SX493 (1,2,3,4)
Leader SX574 (1,2,3,4)

Maizex, Inc.

Maizex MX83 (5,6,7,8,9,10,11,12)
Maizex MX95 (9,10,11,12)
Maizex MX100 (9,10,11,12)

Maumee Valley Seeds, Inc.

Maumee Valley MV526 (5,6,7,8,9,
10,11,12,17)
Maumee Valley MV630 (5,6,7,8,9,
10,11,12)
Maumee Valley MV711 (1,2,3,4,5,
6,7,8,9,10,11,12,16,17)
Maumee Valley MV727 (1,2,3,4,5,
6,7,8,9,10,11,12)

King K647 (1,2,3,4)
King K2204 (9,10,11,12,13,14,15)
King K5574 (5,6,7,8,9,10,11,12)
King GG955 (9,10,11,12)
King GG1007 (5,6,7,8)
King GG1008 (1,2,3,4,5,6,7,8)
King GG1012 (1,2,3,4)

Leader SX576 (1,2,3,4)

Maizex MX101 (5,6,7,8,9,10,11,12)
Maizex MX102 (5,6,7,8,9,10,11,12)

Maumee Valley MV762 (1,2,3,4,5,6,
7,8,9,10,11,12,16,17)
Maumee Valley MV812 (1,2,3,4,5,6,
7,8,16)
Maumee Valley MV819 (1,2,3,4,5,6,
7,8,16)
Maumee Valley MV851 (1,2,3,4)

Terra International

Terra TR59 (17)
Terra TR940 (9,10,11,12,17)
Terra TR1010 (1,2,3,4,5,6,7,8,9,
10,11,12)
Terra TR1020 (1,2,3,4,5,6,7,8,9,
10,11,12,17)

Top Farm Hybrids, Inc.

Top Farm TF399 (17)
Top Farm TFSX1101 (5,6,7,8,9,10,
11,12,17)
Top Farm TFSX1102 (5,6,7,8,9,10,
11,12)
Top Farm TFSX1103 (1,2,3,4,5,6,
7,8,9,10,11,12)

Wolf River Valley Seeds

Wolf River Valley 9085 (14)

Michigan Hybrid Seed Co.

Wolverine W133 (9,10,11,12)
Wolverine W156 (5,6,7,8,9,10,11,
12)

Terra TR1040 (1,2,3,4,5,6,7,8,9,
10,11,12)
Terra TR1060 (1,2,3,4,5,6,7,8)
Terra TR1120 (1,2,3,4,5,6,7,8)

Top Farm TFSX1105 (1,2,3,4,5,6,7,
8,9,10,11,12)
Top Farm TFSX1109 (17)
Top Farm TFSX1112 (1,2,3,4)
Top Farm TFSX1195A (9,10,11,12)

Wolf River Valley 9090 (14)

Wolverine W158 (5,6,7,8,9,10,11,
12)
Wolverine W163 (9,10,11,12)
Wolverine W167 (5,6,7,8)

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Companies with hybrids entered in 1990 trials

BRAND	Company Name and Address
AMCORN	Amcorn Hybrids, Inc., 1093 129th Avenue, Box 6 Bradley, MI 49311
ANDERSONS	The Andersons, P.O. Box 119 Maumee, OH 43537
ASGROW	Asgrow Seed Company, 7000 Portage Road Kalamazoo, MI 49001
BECK'S	Beck's Hybrids, 6767 East 276th Street Atlanta, IN 46031
BETAGOLD	Betaseed, Inc., 1788 Marschall Road, P.O. Box 195 Shakopee, MN 55379
BLANEY	Richard Blaney Seeds, Inc., 5292 East Lacy Road Madison, WI 53711
CALLAHAN	Callahan Seeds, 1122 East 169th Street Westfield, IN 46074
CARGILL	Cargill Hybrid Seeds, Box 5645 Minneapolis, MN 55440
CENEX LOL	Stephenson Marketing Stephenson, MI 53121
COUNTRYMARK	Countrymark, Inc., 4565 Columbus Pike Delaware, OH 43015
CROWS	Crows Hybrid Corn Company, Box 306 Milford, IL 60953
DAIRYLAND	Dairyland Seed Company, Inc., P.O. Box 958 West Bend, WI 53095
DEKALB	Dekalb Plant Genetics, 3100 Sycamore Road Dekalb, IL 60115
DYNAGRO	United Agri Products, 2514 82nd Street, Suite H Lubbock, TX 79423
FUNK'S G-BRAND	CIBA-GEIGY Seed Division 12275 South Sherman Lake Drive Augusta, MI 49012
GARNO	Ken Garno Seeds, 8400 Deerfield Road Palmyra, MI 49268
GARST	Garst Seed Company, 8126 Bison Ct. Indianapolis, IN 46268
GEN-TECH	Gen-tech Farm Seed, Inc., 15740 Old 31 Argos, IN 46501
GOLDEN HARVEST	Sommer Bros. Seed Company, P.O. Box 248 Pekin, IL 61554
GREAT LAKES	Great Lakes Hybrids, Inc., 9915 West M-21 Ovid, MI 48866
GRIES	Gries Seed Farms, Inc., 2348 North Fifth Street Fremont, OH 43420

BRAND	Company Name and Address
GUTWEIN	Fred Gutwein & Sons, Route 1, Box 40 Francesville, IN 47946
JACQUES	Jacques Seed Company, 720 St. Croix Street Prescott, WI 54021
JUNG	Jung Farms, Inc., 335 South High Street Randolph, WI 53957
KALTENBERG	Kaltenberg Seed Farms, 5506 Hwy. 19, Box 278 Waunakee, WI 53597
KING	King Agro, Inc., 8687 East US 223, P.O. Box 69 Blissfield, MI 49228
LEADER	Leader Seeds, Inc., 7160 S.R. 118 Celina, OH 45822
MAIZEX	Maizex, Inc., RR#2 Tilbury, ONT CANADA N0P2L0
MAUMEE VALLEY	Maumee Valley Seeds, Inc., RR#1 Woodburn, IN 46797
NORTHRUP KING	Northrup King Company, P.O. Box 959 Minneapolis, MN 55440
PICKSEED	Otto Pick & Sons Seeds Ltd., Box 126 Richmond Hill, ONT CANADA L4C4X9
PIONEER	Pioneer Hi-Bred International, Inc. 1000 West Jefferson St. Tipton, IN 46072
PRAIRIE STREAM	Prairie Stream Farms, Inc., Rte. 3, Box 333 Frankfort, IN 46041
PROVICO	Provico Seeds, Box 579, 104 South Sycamore Street Botkins, OH 45306
RENK	Renk Seed Company, 6700 Wilburn Road Sun Prairie, WI 53590
RUPP	Rupp Seeds, Inc., 17919 Co. Road B Wauseon, OH 43567
SEDEX	Seedex, Inc., P.O. Box 231 Sheridan, IN 46069
SUPERCROST	Edward J. Funk & Sons, Inc. P.O. Box 67, 601 Funk Parkway Kentland, IN 47951
TERRA	Terra International, 950 South Broadway Lima, OH 45804
TOP FARM	Top Farm Hybrids, Inc., P.O. Box 850 Cokato, MN 55321
WOLF RIVER VALLEY	Wolf River Valley Seeds, N. 2976 Hwy. M. White Lake, WI 54491
WOLVERINE	Michigan Hybrid Seed Company 206 Park Street, P.O. Box 343 Mason, MI 48854

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