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Michigan State University Extension Service
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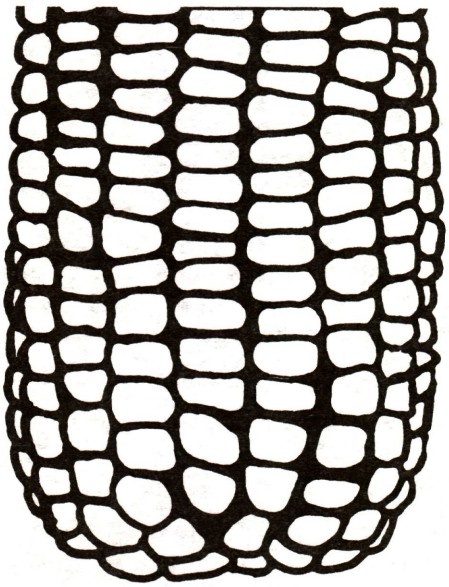

Michigan Corn Production

HYBRIDS COMPARED 1976

COOPERATIVE EXTENSION SERVICE
MICHIGAN STATE UNIVERSITY

BY: E. C. ROSSMAN, BARY M. DARLING AND KEITH DYSINGER

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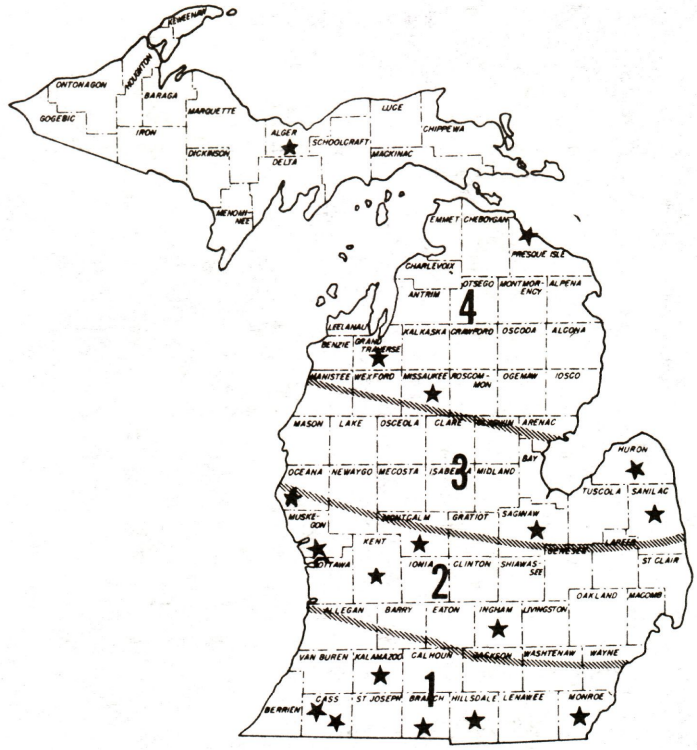
HYBRID CORN TRIALS are conducted each year by the Michigan Experiment Station in cooperation with the Cooperative Extension Service, Michigan Crop Improvement Association, seed corn companies and farmers.

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

Highest yielding corn hybrids in the 1975 trials produced 30 bushels more corn per acre than the average of 330 hybrids tested and 66 bushels more than the lowest yield hybrids tested (Table A, page 4). The respective yields were 160, 130 and 94 for the highest, average and lowest yielding hybrids at the 17 testing locations. The driest hybrids at harvest contained 6% less moisture than the average and 12% less moisture than the wettest hybrids tested. Stalk breakage averaged 12%, 3% and 0% for hybrids with highest, average and lowest amounts of stalk lodging.



Corn Maturity Zones and Locations (★) of Trials

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ENTRIES

Two groups of entries are included in the trials:

1. **Voluntary entries**—all seed companies are invited each year to enter hybrids in the trials. A fee is charged to cover some of the direct expenses.

2. **Extension entries**—Extension entries are included to provide performance data on some of the hybrids not entered as voluntary entries. They are hybrids suggested by County Extension personnel on the basis of extent of use in the various areas of the state.

No distinction between, or identification of, Voluntary and Extension entries is made in reporting the results. All hybrids were randomized and compared in the same field using the same procedures for all.

Table 23 presents an index of all hybrids entered in the 1975 trials. 330 hybrids were tested as 1,665 entries at 17 testing locations. Company names used in association with hybrid numbers refer to the brand, and the number is the hybrid designation.

Single-cross hybrids are indicated with (2X), three-way hybrids with (3X), double-cross hybrids with (4X) and special cross hybrids with (Sp) following the hybrid name and number in the tables.

Michigan experimental hybrids are not listed since seed is not yet available for farm use.

METHODS

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

Seed for Voluntary and Extension entries was submitted by seed companies. An equal number of seeds were counted for each plot of all hybrids. Each hybrid was replicated several times in the field. Plots were planted with a standard two-row or four-row corn planter adapted for small plots.

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

Stands and lodging were counted before harvest. Plots for grain yields were harvested with a one-row picker-sheller. Field data were processed with high-speed electronic computers.

Silage yields were taken on all hybrids in the Ingham, Sanilac, Huron, Missaukee, Presque Isle and Alger County trials (Tables 10, 12, 15, 19, 21 and 22). The Sanilac County silage trial was on a different farm from the grain trial.

Irrigated and non-irrigated comparisons were made in the Montcalm County trial (Table 16). There were two locations in Cass County—upland soil with irrigation (Table 5) and muck soil (Table 6).

Five adapted hybrids at four plant populations (15,000 to 27,000) were tested at 16 locations (Table B). Hybrid x population interactions were not significant, so only the averages were reported. The 19,200 average population produced the highest yield at 13 of the 16 locations. The average population of 23,200 gave the highest yield at Cass County-Irrigated, Montcalm County-Irrigated and Sanilac County. When averaged for all locations, 19,200 average population produced 18.2, 2.6 and 13.8 bushels more than population of 15,400, 23,200 and 27,500 respectively. Moisture content of grain averaged 0.1 to 0.9% higher for the higher populations. There was slightly more stalk lodging at the higher populations.

Planting of all trials in the Lower Peninsula was completed between April 30 and May 20. Cold, wet weather in April delayed the start of planting in some areas. Warm, sunny weather in May permitted more rapid planting than normal, and generally good stands were obtained. About 90% of the state's corn acreage was planted by May 31, well ahead of the 68% in 1974 and 80% average. Abundant moisture and hot weather during the last half of June stimulated rapid growth. Average plant height was 19 inches on June 28, almost double the 10-inch average in 1974. Some fields started to tassel by July 4.

Hot, dry weather during July and the first three weeks of August created plant stress and cut yields at some locations. Heavy rains in late August resulted in record rainfall for the month. Corn developed and matured ahead of normal. By September 1, 50% of the fields were dented compared with 13% in 1974 and 28% average. Most corn matured without any frost damage.

Dry, warm weather in October was favorable for field dry-down and early harvest. By November 1, 65% of the grain corn was harvested compared with 31% in 1974 and 40% average.

The Michigan Crop Reporting Service estimates the 1975 average corn yield at 81 bushels per acre compared to 63 in 1974, 79 in 1973, 83 (a record high) in 1972, 65 in 1971, and 79 in 1970. 1,820,000 acres were indicated for grain harvest and about 480,000 acres for silage in 1975. A record total crop of 147.4 million bushels is forecast, 34% more than 1974. The previous record was 142.9 million bushels in 1972.

HOW TO USE THIS BULLETIN

One-, two-, and three-year averages are presented for all hybrids tested during 1975, 1974, and 1973. One-year data are less reliable than two- or three-year averages and should be interpreted with more caution. Confidence in corn performance data increases with the number of years and locations of testing. Two or more years' results are more desirable than one year of testing.

The tables tell you three things about the hybrids tested:

1. average moisture content at harvest,
2. average yield in bushels of shelled corn at 15.5% moisture or silage yields, and

3. average percentage of stalk lodging (plants broken below the ear at harvest).

Hybrids are recorded in the tables in order of their approximate maturity (early to late) based on moisture content at harvest. Moisture content was determined from shelled grain samples at all locations harvested for grain and from ear corn samples in the silage trials.

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

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

When comparing any two hybrids, the difference between them should not be considered significant unless it exceeds the value listed as "least significant difference", at the bottom of the tables.

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

HOW TO CHOOSE A HYBRID

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

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

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

Maturity—Hybrids are listed in the tables in order of maturity—early to late—based on moisture content of the grain at harvest. This is usually a reasonably accurate measure of relative maturity in most years in Michigan. Early-maturing hybrids will be generally lower in moisture content than later-maturing hybrids. Difference among hybrids in rate of drying in the field also affects moisture content at harvest but usually does not greatly disturb the relative maturity ratings as determined by moisture content. One percent more moisture at harvest means a delay in maturity of about two days. Corn is mature when moisture is down to about 32% in the grain or 38% in the ear.

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

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

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

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

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

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

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

TO REDUCE STALK LODGING

Several stalk rotting fungi may cause broken stalks at harvest and create a major problem in corn production. Stalk rot is a disease of old age in that these fungi increase rapidly after the plant has matured or when the plant has died prematurely. Highest incidence of stalk rot occurs in years when corn matures early and when harvest is delayed. Infection and disease development are favored by warm

humid weather with abundant rainfall during the latter part of the growing season.

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

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

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

TO AVOID MOLDY CORN IN 1976

The following recommendations will help avoid moldy corn in 1976:

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

SEED SUPPLIES FOR 1976

A large supply of high-quality hybrid seed corn is available for 1976 planting. Increased seed acreage, a favorable growing season in most areas, no early killing frost and excellent harvest conditions all contributed to a large seed crop with good quality.

The current seed situation is in direct contrast to that of a year ago when seed supplies were tight and some of it was low or marginal in quality. Delayed planting, drought, and killing frosts reduced both supply and quality of seed corn for 1975 planting. Fortunately, weather conditions were generally favorable during 1975 planting so that satisfactory stands were obtained in most fields.

Seed reserves were almost exhausted in planting the 1975 crops so that a larger than usual seed acreage was planted to assure an adequate supply for 1976 and to replace reserves.

Table A. **Average, highest and lowest moisture content, grain yield and stalk lodging at 17 locations in 1975.**

Location	No. of hybrids	% Moisture			Bushels per acre			% Stalk lodging		
		Ave.	Highest	Lowest	Ave.	Highest	Lowest	Ave.	Highest	Lowest
Monroe	98	22.2	29.2	17.7	137.9	169.7	90.4	3.0	11.9	0.0
Hillsdale	112	25.9	30.3	20.0	119.2	148.8	92.7	1.8	9.4	0.0
Branch	119	27.7	33.9	19.6	150.7	183.0	98.6	0.4	2.4	0.0
Kalamazoo	69	30.2	34.1	24.1	120.2	143.1	93.7	0.6	3.9	0.0
Cass-Upland Irrigated	77	24.9	30.9	19.7	155.7	186.7	95.4	5.8	22.1	0.0
Cass-Muck Soil	75	24.4	28.3	19.7	125.2	159.7	85.7	8.6	38.7	0.0
Kent	79	26.0	30.9	20.7	121.6	148.4	100.2	1.1	5.9	0.0
Muskegon	55	26.5	33.1	20.1	115.9	145.0	94.1	0.5	2.3	0.0
Ingham	109	30.3	36.9	23.0	140.8	174.5	101.3	0.3	8.9	0.0
Sanilac	82	26.5	33.1	20.1	145.7	174.9	109.8	0.2	2.5	0.0
Saginaw	87	25.0	30.2	18.2	113.0	142.3	84.2	0.7	5.6	0.0
Huron	96	23.0	30.5	17.1	125.4	151.8	87.3	1.0	8.4	0.0
Montcalm-Irrigated	75	26.1	32.0	21.8	153.9	206.5	106.3	4.5	16.8	0.0
Montcalm-Not Irrigated	75	26.1	32.0	21.8	124.6	157.2	80.4	4.6	18.7	0.0
Oceana	64	23.2	28.9	18.7	130.0	149.9	101.7	2.1	11.0	0.0
Grand Traverse	40	22.5	28.1	18.6	100.4	124.5	72.3	2.5	9.4	0.0
Presque Isle	48	33.0	39.3	25.6	127.3	155.2	99.6	5.7	33.6	0.0
Average		26.1	31.9	20.3	129.9	160.1	93.9	2.6	12.4	0.0

Table B. **Average yield,** % moisture and % stalk lodging at four plant populations for 16 locations in 1975.

Location	Bushels per Acre				% Moisture in Grain				% Stalk Lodging			
	15,400	19,200	23,200	27,500	15,400	19,200	23,200	27,500	15,400	19,200	23,200	27,500
Monroe	137.2	155.3	143.4	126.7	21.0	21.6	21.6	21.9	3.6	4.5	6.5	9.5
Hillsdale	119.1	135.7	126.4	108.2	24.5	24.8	24.9	25.5	2.3	5.0	5.4	5.4
Branch	141.5	165.5	157.4	150.0	25.4	25.2	25.8	25.9	1.4	3.6	3.4	6.8
Kalamazoo	126.2	141.9	138.1	120.9	25.9	26.2	26.2	26.8	1.5	2.9	2.6	5.9
Cass-Upland Irrigated	165.4	181.1	201.6	178.3	24.6	24.6	24.8	24.8	5.3	9.8	11.7	12.0
Cass-Muck Soil	118.4	138.1	137.1	126.8	24.6	24.9	24.8	25.6	4.1	5.3	6.4	9.9
Kent	141.8	153.8	147.1	142.8	25.8	25.8	26.0	26.6	3.1	3.8	5.4	7.1
Muskegon	119.0	135.4	125.9	122.3	25.3	25.2	25.6	26.6	0.3	2.4	2.3	4.8
Ingham	137.9	155.3	151.8	140.8	27.5	27.4	27.9	28.5	0.2	1.3	1.4	3.7
Sanilac	147.7	170.4	195.3	173.1	27.3	27.6	27.8	28.4	0.0	0.0	1.1	2.1
Saginaw	110.1	127.2	119.4	117.5	25.8	26.1	26.4	27.2	0.2	1.6	1.8	2.1
Huron	141.4	155.2	152.0	145.1	26.8	26.7	27.2	27.2	0.9	2.9	3.4	5.3
Montcalm-Irrigated	158.2	182.7	195.5	171.8	26.2	26.2	26.3	26.9	1.7	5.0	5.4	9.7
Montcalm-Not Irrigated	136.0	163.9	150.6	145.5	26.6	26.5	26.9	26.8	2.4	6.2	7.0	10.2
Oceana	139.9	158.9	148.8	143.8	26.0	26.4	26.4	26.5	2.4	4.7	6.8	9.9
Grand Traverse	105.6	115.6	104.8	101.9	25.0	25.2	26.5	26.7	0.5	1.8	1.8	2.9
Average	134.1	152.3	149.7	138.5	25.5	25.6	25.9	26.4	1.9	3.8	4.5	6.7

Table 1 **SOUTHERN MICHIGAN** Zone 1

MONROE COUNTY TRIAL

One, Two, Three Year Averages—

1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture			Bushels per acre			% Stalk lodging		
	1975	2 Yrs.	3 Yrs.	1975	2 Yrs.	3 Yrs.	1975	2 Yrs.	3 Yrs.
Michigan 280 (4X)	17.7	20	20	100.3	88	89	10.4	5	6
Michigan 333 (3X)	18.5	21	20	119.7	101	103	8.7	4	4
DeKalb XL 12 (2X)	19.1	22	—	127.9	108	—	8.2	4	—
Michigan 396-3X (3X)	19.3	23	22	131.6	112	118	5.2	3	2
Pioneer 3784 (2X)	19.5	23	22	134.2	108	107	1.5	1	1
Blaney 7305 (2X)	19.5	23	—	128.8	116	—	0.0	1	—
Hulting X 310 (2X)	19.5	—	—	94.1	—	—	4.8	—	—
Golden Harvest H 2355 (2X)	19.6	23	—	127.4	110	—	2.3	1	—
Wolverine W 170 (2X)	20.1	—	—	119.1	—	—	0.0	—	—
Pioneer 3780 (2X)	20.1	24	23	130.6	125	132	3.0	2	2
Golden Harvest H-2290 (3X)	20.1	—	—	90.4	—	—	5.3	—	—
Funk G-4288 (3X)	20.3	24	—	138.8	115	—	11.9	7	—
Michigan 572-3X (3X)	20.3	25	24	136.6	125	133	8.0	4	4
Adler 23X (2X)	20.3	24	23	128.7	106	115	3.0	2	1
*Michigan 407-2X (2X)	20.4	24	23	152.4	133	140	2.2	1	2
Pride 5525 (2X)	20.4	—	—	137.5	—	—	0.0	—	—
Hulting Exp. 74149 (3X)	20.4	—	—	108.6	—	—	2.2	—	—
O's Gold SX 1101 (2X)	20.5	—	—	135.6	—	—	0.7	—	—
Michigan 410-2X (2X)	20.5	24	23	138.6	120	129	1.5	1	1
Funk G 4343 (2X)	20.6	24	23	142.5	118	119	5.9	7	5
Michigan 4122 (2X)	20.6	—	—	140.2	—	—	0.0	—	—
Acco DC 394 (3X)	20.7	25	24	98.9	92	96	6.4	3	4
*Northrup King PX 46 (2X)	20.8	—	—	146.1	—	—	0.7	—	—
*Wil-Star RV 55 (2X)	20.9	—	—	144.9	—	—	7.8	—	—
*Northrup King PX 32 (2X)	21.0	—	—	147.6	—	—	2.1	—	—
Golden Harvest H-2420 (2X)	21.0	24	—	124.2	106	—	0.0	1	—
Funk GL 2384 (Sp.)	21.1	—	—	138.6	—	—	3.9	—	—
*Michigan 5443 (3X)	21.1	—	—	151.4	—	—	3.6	—	—
Super Crost 4242 (2X)	21.1	27	26	133.3	104	112	2.2	2	2
Wolverine W 177 (2X)	21.2	26	—	140.1	121	—	6.0	3	—
*Security SS 108 (2X)	21.2	—	—	147.3	—	—	0.8	—	—
*DeKalb XL 42 (2X)	21.2	26	—	155.3	133	—	2.3	1	—
*Funk G-4321 (2X)	21.3	25	—	163.6	138	—	3.1	2	—
*Golden Harvest H-2450 (2X)	21.3	29	—	169.7	133	—	1.5	2	—
Golden Harvest H-2400 (3X)	21.4	—	—	121.0	—	—	2.9	—	—
Wil-Star RV 43 (2X)	21.5	—	—	129.8	—	—	2.2	—	—
Super Crost S 25 (2X)	21.5	24	23	134.7	113	125	0.0	0	1
Jacques JX 122A (2X)	21.5	—	—	136.0	—	—	1.6	—	—
Migro M-1212 (2X)	21.5	26	24	117.2	96	107	3.1	2	2
*Garno S 110 (2X)	21.5	28	27	147.5	126	130	0.7	1	1
*Wolverine W 174 (2X)	21.6	26	—	153.0	129	—	3.1	2	—
*Blaney B 606 (2X)	21.6	25	—	157.3	130	—	0.7	0	—
*Michigan 575-2X (2X)	21.6	27	25	154.0	126	135	3.3	3	3
*Funk G-4408 (3X)	21.6	—	—	150.4	—	—	3.1	—	—
*Northrup King PX 48 (2X)	21.7	27	—	154.2	128	—	5.1	4	—
*Super Crost 2890 (2X)	21.7	26	—	154.1	120	—	4.5	2	—
*Funk G-4444 (2X)	21.8	27	25	144.7	122	129	1.5	2	3
Super Crost S 29 (2X)	21.9	—	—	138.4	—	—	4.3	—	—
Hulting X 770 (2X)	22.0	—	—	139.6	—	—	1.5	—	—
*Super Crost S 27 (2X)	22.1	27	26	149.8	117	130	0.0	0	0
Super Crost 2772 (2X)	22.1	28	26	126.2	111	122	6.1	3	3
O's Gold SX 1100 (2X)	22.1	26	—	141.4	118	—	3.9	2	—
*Wil-Star RV 50 (2X)	22.2	—	—	147.5	—	—	0.0	—	—
Acco U 348 (3X)	22.3	—	—	117.6	—	—	1.5	—	—
Security SS 105 (2X)	22.3	—	—	142.2	—	—	5.1	—	—

(Continued)

TABLE 1. (Continued)

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
*Michigan 5802 (2X)	22.3	26	—	164.6	140	—	1.1	1	—
Pioneer 3716 (3X)	22.4	—	—	140.6	—	—	1.5	—	—
OYO 220 (2X)	22.5	28	25	119.6	99	97	4.3	2	4
Cargill 890 (2X)	22.5	28	—	123.2	111	—	2.3	2	—
*Funk G-WX 520 (2X)	22.5	26	—	152.2	121	—	3.6	3	—
O's Gold SX 2145 (2X)	22.5	27	—	130.3	105	—	10.3	6	—
*Cardinal SX 112 (2X)	22.5	28	—	152.8	127	—	6.8	3	—
*Trojan TXS 102 (2X)	22.5	—	—	159.5	—	—	2.2	—	—
Acco DC 441 (4X)	22.6	27	25	127.5	100	106	5.3	3	3
*P.A.G. SX 397 (2X)	22.6	31	—	147.5	113	—	3.6	3	—
*Acco UC 4561 (2X)	22.8	—	—	146.7	—	—	2.2	—	—
Northrup King PX 50A (2X)	22.9	28	—	133.8	118	—	4.4	2	—
DeKalb XL 43A (2X)	23.0	30	—	126.9	104	—	2.3	1	—
Hulting X 322 (2X)	23.1	—	—	139.9	—	—	7.7	—	—
Super Crost 3433 (3X)	23.1	—	—	125.5	—	—	2.3	—	—
Migro M-1130 (2X)	23.1	27	26	128.1	122	129	0.0	0	0
*Pioneer 3535 (2X)	23.2	26	—	144.7	131	—	0.0	0	—
Pioneer 3518 (Sp.)	23.2	28	26	137.9	113	122	1.5	1	1
Pioneer 3529 (Sp.)	23.3	—	—	130.9	—	—	0.7	—	—
Hulting X 537 (2X)	23.4	—	—	129.5	—	—	2.9	—	—
Migro M-5040 (4X)	23.4	—	—	129.7	—	—	1.5	—	—
Cowbell 7480 (2X)	23.4	27	—	118.3	108	—	0.0	0	—
*Funk G-4366 (3X)	23.5	27	26	147.5	124	128	8.0	6	7
*Migro M-3020 (4X)	23.5	29	27	147.5	110	118	0.8	2	2
Super Crost 2572 (2X)	23.8	29	27	128.5	108	116	2.2	1	1
*Acco UC 3201 (2X)	23.8	28	26	151.8	125	132	3.8	2	3
Cargill 920 (2X)	23.9	—	—	131.6	—	—	2.3	—	—
P.A.G. SX 424 (2X)	24.0	—	—	142.4	—	—	8.3	—	—
*Northrup King PX 65 (2X)	24.2	30	—	159.9	119	—	2.2	1	—
Migro M-0501 (2X)	24.2	32	30	142.6	108	118	0.0	0	0
*O's Gold 3104 (3X)	24.5	30	—	151.6	110	—	2.3	2	—
Northrup King PX 614 (3X)	25.0	—	—	140.2	—	—	1.4	—	—
*Hulting X 6861 (3X)	25.0	—	—	167.2	—	—	0.8	—	—
OYO 333 (2X)	25.1	29	28	126.7	105	113	4.7	3	5
*Pride 7715 (2X)	25.1	—	—	167.3	—	—	0.0	—	—
Migro M-4501 (2X)	25.1	—	—	130.0	—	—	4.7	—	—
*Voris V 2532 (2X)	25.3	—	—	166.9	—	—	1.5	—	—
Adler 415 (3X)	25.4	—	—	125.1	—	—	3.0	—	—
*Super Crost 5440 (2X)	25.5	33	31	153.6	109	120	0.0	0	1
Pride 6694 (2X)	25.9	32	—	135.4	118	—	2.3	1	—
*Trojan TXS 113 (2X)	25.9	35	32	157.0	115	129	0.7	0	1
Voris V 2482 (2X)	28.4	—	—	100.5	—	—	0.0	—	—
*Voris V 2402 (2X)	29.2	—	—	150.8	—	—	0.8	—	—
Average	22.2	26	25	137.9	115	120	3.0	2	2
Range	17.7 to 29.2	20 to 33	20 to 31	90.4 to 169.7	88 to 140	89 to 140	0.0 to 11.9	0 to 7	0 to 7
Least significant difference	1.2	0.9	0.8	14.3	6	5			

*Significantly better than average yield in 1975.

		1975	1974	1973
Planted		May 5	May 24	May 7
Harvested		Oct. 27	Oct. 29	Oct. 20
Soil Type		Metamora sandy loam	Pewamo	Pewamo
Previous Crop		Corn	Wheat seeded to clover	Corn
Population		20,300	20,000	18,800
Rows		30"	30"	30"
Fertilizer		206-198-198	96-92-92	120-80-80
Soil Test:	pH	6.5	6.5	6.3
	P	213 (very high)	57 (very high)	34 (medium)
	K	223 (high)	234 (high)	250 (high)

Farm Cooperators: Orville Montri, LaSalle (1975); Ernest LaPointe, Ottawa Lake (1974, 1973).

County Extension Director: Paul Nevel, Monroe

Table 2 **SOUTHERN MICHIGAN** Zone 1

HILLSDALE COUNTY TRIAL

One, Two, Three Year Averages—

1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Michigan 280 (4X)	20.0	21	20	92.7	101	99	9.4	5	4
Michigan 333-3X (3X)	21.4	22	21	121.4	116	112	0.9	1	1
Hulting X310 (2X)	21.9	—	—	93.2	—	—	1.0	—	—
Warwick SL501 (Sp.)	22.0	24	24	116.0	114	111	0.8	0	1
Michigan 396-3X (3X)	22.2	24	22	118.4	122	116	0.0	0	0
Todd MX33 (2X)	22.3	—	—	94.4	—	—	0.0	—	—
Blaney B302 (2X)	22.8	23	22	105.8	104	104	0.0	0	0
Adler 23X (2X)	23.6	26	25	117.9	110	106	0.8	0	2
Gutwein 40 (2X)	23.7	24	23	114.3	121	116	0.7	0	1
Hulting Exp. 74149 (3X)	24.0	—	—	96.9	—	—	4.0	—	—
Wyckoff 1266SX (2X)	24.1	—	—	118.6	—	—	0.7	—	—
Funk G-4343 (2X)	24.1	25	24	109.4	114	111	5.1	3	3
Super Crost 1901 (2X)	24.2	25	—	100.2	110	—	0.0	0	—
DeKalb XL19 (2X)	24.2	—	—	125.3	—	—	1.6	—	—
Cowbell 7480 (2X)	24.2	26	—	116.1	118	—	0.0	0	—
Northrup King PX32 (2X)	24.2	—	—	103.1	—	—	2.5	—	—
Gutwein 46 (2X)	24.3	26	—	109.8	111	—	2.5	1	—
Bayless SX434M (2X)	24.3	27	—	108.5	112	—	0.0	0	—
Wolverine W174 (2X)	24.3	27	—	118.0	117	—	1.6	1	—
Super Crost S25 (2X)	24.3	26	24	107.9	106	112	2.5	1	1
*Pioneer 3716 (3X)	24.4	—	—	137.0	—	—	1.5	—	—
Warwick TX32 (3X)	24.4	—	—	105.8	—	—	0.0	—	—
Michigan 572-3X (3X)	24.5	26	25	128.3	131	127	2.4	1	1
*Pioneer 3780 (2X)	24.6	26	25	132.5	130	122	0.0	0	1
*Blaney 7305 (2X)	24.7	25	—	141.2	118	—	0.0	0	—
*Pioneer 3535 (2X)	24.7	27	—	138.9	131	—	0.8	1	—
Northrup King PX46 (2X)	24.8	—	—	105.3	—	—	4.0	—	—
Funk G-4288 (3X)	24.8	26	—	132.0	129	—	3.1	2	—
Northrup King PX545 (3X)	24.8	26	25	117.0	117	111	0.8	0	1
Pioneer 3773 (2X)	24.8	26	25	101.4	110	105	0.0	0	0
Cowbell 7300 (2X)	24.9	26	—	118.6	125	—	0.0	0	—
Muncy Chief SX442 (2X)	24.9	—	—	101.8	—	—	2.8	—	—
*Michigan 407-2X (2X)	24.9	25	24	135.9	129	127	2.2	2	3
*Funk G-4321 (2X)	24.9	26	—	133.2	134	—	1.7	1	—
Funk G-4404 (2X)	24.9	26	24	103.6	118	114	2.0	1	2
*Blaney B606 (2X)	25.0	28	—	134.3	124	—	1.7	1	—
Michigan 410-2X (2X)	25.0	26	25	131.0	135	130	1.0	1	2
Wolverine W170 (2X)	25.0	26	25	114.0	124	123	0.0	0	0
Super Crost 2890 (2X)	25.0	28	—	110.8	111	—	3.9	2	—
Super Crost S29 (2X)	25.1	27	26	110.3	107	107	0.0	0	2
Blaney BX-AA (2X)	25.1	26	24	108.6	108	107	0.0	0	1
Michigan 5443 (3X)	25.1	—	—	129.4	—	—	1.8	—	—
Super Crost 4242 (2X)	25.3	27	26	111.7	117	115	0.8	0	1
Migro M-1212 (2X)	25.3	26	25	110.2	115	112	1.0	1	1
Security SS108 (2X)	25.4	—	—	127.3	—	—	0.8	—	—
*Michigan 4122 (2X)	25.4	—	—	141.2	—	—	0.0	—	—
Pride 5525 (2X)	25.4	—	—	111.4	—	—	2.2	—	—
Blaney B501A (2X)	25.7	27	25	110.0	111	104	2.2	1	3
*Jacques JX122A (2X)	25.7	26	—	138.2	127	—	0.7	0	—
Garno S110 (2X)	25.8	27	—	111.4	117	—	0.8	0	—
Hulting X9770 (3X)	25.8	28	26	104.5	108	104	3.0	2	5
Lowe LSX2 TP (2X)	25.9	27	27	117.5	125	122	0.9	1	4
OYO 220 (2X)	25.9	27	25	104.4	107	100	0.0	1	1
Super Crost 3433 (3X)	25.9	—	—	107.2	—	—	3.4	—	—
Northrup King PX65 (2X)	26.0	20	—	112.5	118	—	1.6	1	—
*Security SS105 (2X)	26.1	—	—	132.5	—	—	2.9	—	—
Funk G-4366 (3X)	26.2	27	26	111.2	112	113	1.7	1	1
*Funk G-4384A (Sp.)	26.2	28	27	146.1	127	125	2.3	2	2
Gutwein 58 (2X)	26.2	—	—	103.2	—	—	1.4	—	—
*Gutwein 69A (2X)	26.2	28	27	137.0	129	121	7.9	4	5
Funk G-WX520 (2X)	26.3	28	—	111.7	109	—	0.8	0	—
*Blaney B-AA (2X)	26.4	28	26	148.1	138	130	2.3	1	2
Cargill 890 (2X)	26.4	—	—	122.9	—	—	0.0	—	—
DeKalb XL21 (2X)	26.4	—	—	110.4	—	—	0.7	—	—
*Northrup King PX50A (2X)	26.5	28	27	137.3	132	126	0.0	0	2
Bayless SX434 (2X)	26.5	28	—	105.3	120	—	5.3	3	—
Northrup King PX610A (3X)	26.5	29	—	117.2	122	—	1.5	1	—
*Funk G-4444 (2X)	26.5	28	26	133.7	129	121	4.8	3	2
Acco UC 3301 (2X)	26.5	28	27	122.5	127	118	0.0	0	1
*Michigan 575-2X (2X)	26.5	28	27	137.4	132	126	3.6	2	2
*Gutwein 128 (Sp.)	26.6	—	—	133.0	—	—	0.0	—	—
Funk G-WX302 (2X)	26.6	27	—	118.5	130	—	6.3	3	—
Migro M-1130 (2X)	26.6	29	27	115.8	126	120	1.5	1	1
Muncy Chief SX550 (2X)	26.7	29	29	101.1	97	101	0.0	0	0
*Wyckoff 2414 SX (2X)	26.7	28	26	136.1	134	125	1.4	1	2

(Continued)

TABLE 2. (Continued)

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
*Trojan TXS 108A (2X)	26.7	29	—	147.3	131	—	0.0	1	—
*Migro M-4501 (2X)	26.7	—	—	139.3	—	—	2.2	—	—
Pioneer 3518 (Sp.)	26.7	28	27	124.8	114	116	3.1	2	2
DeKalb XL44 (2X)	26.7	28	27	117.9	112	111	0.8	0	2
Migro M-0501 (2X)	26.8	29	29	127.5	118	107	2.3	1	1
Hulting X537 (2X)	26.8	27	26	105.4	106	98	0.9	0	1
Funk G-4408 (2X)	26.8	—	—	112.5	—	—	0.0	—	—
Warwick SL601 (2X)	26.9	28	—	111.2	114	—	1.7	1	—
*Super Crost S27 (2X)	26.9	27	27	133.9	129	122	0.0	0	1
Migro M-3020 (4X)	27.0	28	27	127.8	122	113	3.4	2	2
*Michigan 5802 (2X)	27.0	28	—	143.3	137	—	0.0	0	—
Funk G-L2384 (Sp.)	27.1	—	—	100.3	—	—	9.2	—	—
Pioneer 3529 (Sp.)	27.2	—	—	113.2	—	—	0.8	—	—
Hulting X770 (2X)	27.3	30	28	122.4	111	114	4.8	2	3
Wolverine W177 (2X)	27.3	27	—	123.9	132	—	1.7	1	—
Migro M-5040 (4X)	27.3	—	—	118.1	—	—	1.6	—	—
Trojan TXS102 (2X)	27.4	29	27	117.5	126	123	1.6	1	2
Todd M50 (2X)	27.4	27	26	109.0	117	107	0.0	0	1
Hulting X322 (2X)	27.4	—	—	106.6	—	—	0.9	—	—
Acco UC 4201 (2X)	27.5	28	28	111.3	116	119	0.9	0	0
Super Crost 2772 (2X)	27.5	29	27	115.2	107	112	0.0	0	2
*Pioneer 3516 (2X)	27.8	—	—	137.4	—	—	1.6	—	—
Todd M30 (2X)	27.9	29	—	120.6	115	—	2.4	2	—
*Pride 7715 (2X)	28.0	—	—	148.8	—	—	2.2	—	—
*Cargill 920 (2X)	28.1	—	—	133.0	—	—	4.6	—	—
Migro M-0601 (2X)	28.2	—	—	128.5	—	—	2.2	—	—
Migro M-6666 (2X)	28.2	—	—	121.8	—	—	0.0	—	—
Hulting X6861 (3X)	28.8	31	—	122.9	109	—	2.4	1	—
OYO 333 (2X)	29.0	29	28	121.0	117	110	0.8	0	1
Adler 415 (3X)	29.1	—	—	101.1	—	—	4.7	—	—
Wolverine W176 (2X)	29.1	28	—	127.7	120	—	3.6	2	—
Trojan TXS113 (2X)	29.2	30	29	111.9	126	125	2.2	1	2
*Gutwein 62 (2X)	29.2	31	—	146.0	140	—	3.8	2	—
Hulting X9761 (3X)	29.7	30	—	105.2	110	—	2.9	1	—
Wyckoff 3537SX (2X)	29.8	30	—	118.9	130	—	3.0	2	—
Todd M58 (2X)	30.2	29	—	102.9	111	—	2.9	1	—
Muncy Chief SX662 (2X)	30.3	32	30	125.0	122	118	0.8	0	1
Average	25.9	27	26	119.2	119	115	1.8	1	1
Range	20.0 to 30.3	21 to 32	20 to 30	92.7 to 148.8	97 to 140	98 to 130	0.0 to 9.4	0 to 5	0 to 5
Least significant difference	1.2	0.8	0.6	13.0	7	5			

*Significantly better than average yield in 1975.

	1975	1974	1973
Planted	May 20	May 6	May 14
Harvested	Oct. 30	Oct. 18	Oct. 17
Soil Type	Griffin sandy loam	Griffin sandy loam	Griffin sandy loam
Previous Crop	Wheat seeded to clover	Corn	Corn
Population	19,100	20,200	19,800
Rows	30"	30"	30"
Fertilizer	112-48-48	105-60-180	18-72-72
Soil Test: pH	6.3	6.6	6.5
P	47 (very high)	84 (high)	63 (high)
K	229 (high)	150 (medium)	154 (medium)

Farm Cooperator: Dean Shamplo, Pittsford

Extension Field Crops Agent: E. A. Netherton, Hillsdale

Table 3. SOUTHERN MICHIGAN
BRANCH COUNTY TRIAL
One, Two, Three Year Averages—1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Michigan 280 (4X)	19.6	19	19	109.8	109	114	0.9	1	3
Michigan 333-3X (3X)	20.4	21	20	126.8	122	128	1.6	1	1
Hulting X 310 (2X)	20.7	—	—	104.0	—	—	0.0	—	—
Northrup King PX 20 (2X)	21.7	—	—	128.8	—	—	0.0	—	—
Todd MX 33 (2X)	22.1	—	—	98.6	—	—	0.0	—	—
Golden Harvest H-2355 (2X)	22.8	22	—	130.1	127	—	0.8	0	—
Golden Harvest H-2290 (3X)	23.0	—	—	102.8	—	—	0.0	—	—
Michigan 396-3X (3X)	23.1	22	22	127.7	126	132	0.0	0	0
Renk RK 16 (2X)	23.2	—	—	142.5	—	—	0.8	—	—
Renk RK 6 (2X)	23.4	—	—	105.2	—	—	0.8	—	—
Pioneer 3780 (2X)	23.7	23	23	164.8	149	148	0.8	0	2
Adler 23X (2X)	24.0	23	24	155.5	141	141	0.8	2	1
Michigan 410-2X (2X)	24.1	24	23	149.8	146	151	0.0	0	0
Hulting Exp. 74149	24.2	—	—	149.6	—	—	0.0	—	—
Funk G-4288 (3X)	24.3	24	—	137.7	124	—	0.0	0	—
Michigan 407-2X (2X)	24.4	23	22	166.9	153	157	0.0	2	2
Golden Harvest H-2420 (2X)	25.0	24	—	154.9	139	—	0.0	1	—
*Michigan 4122 (2X)	25.1	24	—	169.4	—	—	0.0	—	—
Pioneer 3773 (2X)	25.2	24	24	125.1	125	130	0.0	1	1
Cowbell 7300 (2X)	25.2	25	—	143.8	131	—	0.0	0	—
Renk RK 11AA (2X)	25.6	—	—	139.5	—	—	0.0	—	—
DeKalb XL 21A (2X)	25.8	—	—	161.9	—	—	0.0	—	—
*Funk G-4444 (2X)	25.8	24	24	168.9	150	155	0.0	1	1
Super Crost 3433 (3X)	26.0	—	—	136.6	—	—	0.0	—	—
Northrup King 545 (3X)	26.1	—	—	145.5	—	—	0.0	—	—
Michigan 5443 (3X)	26.1	—	—	160.7	—	—	2.4	—	—
P-A-G SX 69 (2X)	26.2	25	25	166.2	139	141	0.8	1	2
Blaney 7305 (2X)	26.2	—	—	158.2	—	—	0.0	—	—
Migro M-1212 (2X)	26.4	25	25	116.5	115	130	0.0	1	1
Michigan 572-3X (3X)	26.4	25	25	150.7	144	153	0.8	0	2
Blaney B 606 (2X)	26.6	26	—	166.9	147	—	0.0	0	—
Funk G-4343 (2X)	26.6	25	24	154.6	142	148	0.0	0	1
Pride 5525 (2X)	26.7	—	—	160.5	—	—	0.0	—	—
DeKalb XL 45A (2X)	26.7	25	25	135.1	126	135	0.0	1	1
Pioneer 3716 (3X)	26.8	—	—	151.2	—	—	1.5	—	—
Michigan 575-2X (2X)	26.8	26	25	156.5	151	160	1.8	2	1
Super Crost S 27 (2X)	26.8	26	25	159.8	146	147	0.0	0	1
Hulting K 537 (2X)	26.9	26	26	133.0	127	132	0.0	1	1
Renk RK44 (2X)	26.9	25	25	137.3	142	148	0.8	1	1
Todd M30 (2X)	27.0	—	—	146.5	—	—	0.0	—	—
Northrup King PX 50A (2X)	27.0	26	—	156.5	148	—	0.0	0	—
Hulting X 9770 (2X)	27.0	25	25	144.0	140	150	0.0	0	0
*Funk G-WX 302 (Sp.)	27.1	—	—	171.9	—	—	0.0	—	—
Bayless SX 434 (2X)	27.1	26	26	161.8	146	157	0.8	0	1
DeKalb XL 44 (2X)	27.2	26	26	153.2	134	134	0.0	1	2
*Funk G-4408 (2X)	27.5	—	—	174.8	—	—	0.0	—	—
Funk G-WX 520 (2X)	27.6	27	—	140.1	127	—	0.0	0	—
Security SS 108 (2X)	27.6	—	—	130.1	—	—	0.0	—	—
Migro M-3020 (4X)	27.6	27	26	166.9	158	163	0.8	2	2
Bayless SX 1795 (2X)	27.6	28	27	138.9	139	148	0.8	1	1
Funk G-4321 (2X)	27.7	26	—	126.7	127	—	0.9	0	—
Garno S 96 (2X)	27.8	27	27	139.7	137	142	0.0	0	0
Wyckoff 2414 SX (2X)	27.8	27	26	167.1	151	156	0.0	0	0
*Michigan 5802 (2X)	27.8	27	—	182.8	159	—	0.9	0	—
Funk G-L 2384 (Sp.)	27.8	—	—	159.3	—	—	1.7	—	—
Cowbell 7440 (2X)	27.8	27	27	145.5	133	139	0.0	2	2
*Hulting X770 (2X)	27.8	27	26	176.7	152	153	0.8	1	1
Cargill 449 (3X)	27.8	27	26	157.6	142	149	1.0	1	1
Northrup King PX 46 (2X)	27.8	—	—	129.8	—	—	1.0	—	—
*Super Crost S 29 (2X)	27.8	—	—	172.5	—	—	0.7	—	—
*Golden Harvest H-2450 (2X)	27.9	26	—	168.4	150	—	2.3	2	—
*Super Crost 2890 (2X)	28.0	27	—	175.4	162	—	0.8	1	—
Funk G-4366 (3X)	28.1	26	26	135.6	128	144	0.0	1	2
Acco U 356 (3X)	28.2	—	—	139.6	—	—	0.0	—	—
Super Crost 4242 (2X)	28.3	27	27	155.5	141	151	0.0	0	0
Super Crost S 25 (2X)	28.3	25	24	134.3	135	144	0.0	0	0
Pride 5574 (2X)	28.4	—	—	164.3	—	—	0.0	—	—
*Garno S 110 (2X)	28.4	27	—	168.0	156	—	2.3	1	—
Northrup King PX 48 (2X)	28.4	27	—	144.8	143	—	0.0	0	—
Bayless SX 434 M (2X)	28.5	27	—	160.0	148	—	0.0	1	—
Lowe LTX-2 (3X)	28.5	—	—	143.1	—	—	0.0	—	—
Renk RK 66 (2X)	28.6	27	—	136.0	136	—	0.0	0	—
*Migro M-1130 (2X)	28.6	28	27	171.9	151	147	0.0	1	1
Acco UC 3201 (2X)	28.9	27	26	133.6	129	137	0.0	0	0
Hulting X 322 (2X)	29.0	—	—	146.0	—	—	0.0	—	—
Acco UC 4561 (2X)	29.1	27	27	146.6	145	149	0.0	0	2
DeKalb XL 22 (2X)	29.1	27	26	155.4	135	142	0.0	0	1
Parker 50 (2X)	29.2	—	—	164.1	—	—	0.0	—	—
Migro M-4501 (2X)	29.3	—	—	154.0	—	—	0.8	—	—
Cowbell 7480 (2X)	29.4	27	—	136.3	124	—	0.9	1	—
*Pride 7715 (2X)	29.6	—	—	177.0	—	—	0.0	—	—
Blaney B 705 (2X)	29.6	29	29	165.9	148	151	0.8	1	1
Cargill 890 (2X)	29.6	28	—	147.1	127	—	0.0	2	—
*Bayless SX 447 (2X)	29.7	29	—	181.1	164	—	0.0	0	—
Bayless SX 434-3 (2X)	29.7	29	28	160.9	151	147	0.0	0	1

(Continued)

TABLE 3. (Continued)

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
*Security SS 105 (2X)	29.8	—	—	168.3	—	—	0.7	—	—
Migro M-5040 (4X)	29.9	—	—	142.9	—	—	0.0	—	—
Acco U 370 (3X)	29.9	28	28	136.0	137	145	0.8	2	1
*Voris V 2532 (2X)	30.0	28	—	180.7	151	—	0.0	0	—
Hulting X 9761 (3X)	30.2	28	27	141.9	130	138	0.0	0	1
Northrup King PX 65 (2X)	30.2	30	—	163.2	149	—	0.0	1	—
Pride R 407 (2X)	30.2	27	26	128.5	118	127	0.8	0	1
P-A-G SX 397 (2X)	30.2	29	—	146.8	144	—	0.7	0	1
Trojan TXS 102 (2X)	30.2	27	26	164.4	151	158	0.0	0	1
*Northrup King PX 74 (2X)	30.3	30	—	177.3	163	—	0.0	0	—
Pioneer 3529 (Sp.)	30.3	—	—	167.0	—	—	0.0	—	—
Pioneer 3535 (2X)	30.4	29	—	152.9	152	—	0.0	0	—
P-A-G SX 424 (2X)	30.4	—	—	163.8	—	—	0.8	—	—
Northrup King PX 606 (3X)	30.4	30	—	147.4	135	—	1.6	1	—
Parker 260 (3X)	30.8	—	—	160.6	—	—	0.0	—	—
Trojan TXS 113 (2X)	30.9	—	—	153.9	—	—	0.0	—	—
Blaney B805 (2X)	30.9	31	—	151.1	148	—	0.8	0	—
Migro M-0501 (2X)	31.0	31	30	151.3	145	150	0.0	0	0
Cargill 920 (2X)	31.1	—	—	154.2	—	—	0.8	—	—
Migro M-6666 (2X)	31.1	—	—	129.9	—	—	0.0	—	—
Pioneer 3518 (Sp.)	31.1	29	28	132.0	133	143	1.6	1	1
*Super Crost 5440 (2X)	31.2	31	30	183.0	165	167	0.0	0	0
Northrup King PX 610A (3X)	31.2	29	—	146.3	149	—	0.8	1	—
Lowe LSX2 TP (2X)	31.2	28	26	160.2	143	144	0.0	0	2
Hulting X 6861 (3X)	31.3	30	—	150.1	144	—	0.8	2	—
*Wyckoff 3537 SX (2X)	31.5	—	—	175.1	—	—	2.3	—	—
Todd M 50 (2X)	31.5	—	—	146.3	—	—	0.0	—	—
Pride 6694 (2X)	31.5	—	—	127.9	—	—	0.9	—	—
*Bayless SX 637 (2X)	32.0	—	—	170.8	—	—	0.0	—	—
Adler 415 (3X)	32.0	—	—	143.4	—	—	0.0	—	—
Todd M 58 (2X)	32.1	—	—	144.6	—	—	1.6	—	—
*Migro M-0601 (2X)	32.6	—	—	179.0	—	—	0.0	—	—
Voris V 2402 (2X)	33.8	29	—	149.3	139	—	0.0	0	—
*Golden Harvest H-2500 (2X)	33.9	32	—	180.3	167	—	0.0	0	—
Average	27.7	27	26	150.7	141	145	0.4	0.5	1
Range	19.6 to 33.9	19 to 32	19 to 30	98.6 to 183.0	108 to 167	114 to 167	0.0 to 2.4	0 to 2.3	0 to 3
Least significant difference	1.3	0.9	0.7	16.8	7	5			

*Significantly better than average yield in 1975.

		1975	1974	1973
Planted		May 19	April 27	May 22
Harvested		Oct. 16	Oct. 16	Nov. 30
Soil Type		Gilford sandy loam	Gilford sandy loam	Gilford sandy loam
Previous crop		Corn	Corn	Corn
Population		20,200	20,500	20,100
Rows:		30"	30"	30"
Fertilizer		132-82-72	182-184-0	167-69-0
Soil test:	pH	6.8	6.5	6.8
	P	233 (very high)	199 (very high)	190 (very high)
	K	399 (very high)	329 (very high)	322 (very high)

Farm Cooperator: George Matthews, Union City

County Extension Director: Paul Thompson, Coldwater

Table 4. SOUTHERN MICHIGAN Zone 1
KALAMAZOO COUNTY TRIAL
One, Two, Three Year Averages—
1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Blaney B 302 (2X)	24.1	—	—	96.5	—	—	0.8	—	—
Michigan 280 (4X)	24.2	25	23	93.7	90	91	2.3	3	3
Asgrow 2222 (2X)	24.3	—	—	118.5	—	—	0.8	—	—
Asgrow RX42 (2X)	24.7	25	—	122.1	107	—	1.6	2	—
Michigan 333-3X (3X)	24.8	25	24	118.6	106	103	2.5	2	1
Jacques JX62 (2X)	24.9	26	—	102.8	97	—	1.7	1	—
Migro M-0101 (2X)	25.5	26	—	120.6	107	—	0.0	0	—
Jacques JX92 (2X)	25.7	26	—	122.2	—	—	0.0	—	—
Cowbell 102 (2X)	26.2	—	—	96.0	—	—	2.2	—	—
Michigan 396-3X (3X)	26.3	26	25	121.1	111	108	0.9	1	2
*Michigan 407-2X (2X)	27.0	28	27	143.1	125	122	3.4	3	3
Super Crost S25 (2X)	27.9	29	28	113.6	107	102	0.8	1	1
Funk G-4404 (2X)	27.9	28	27	118.3	112	114	0.8	2	1
Migro M-1130 (2X)	28.3	32	30	127.9	118	110	0.7	0	0
Michigan 410-2X (2X)	28.4	29	27	126.3	112	112	0.0	1	0
Asgrow RX 53 (2X)	28.8	29	28	130.8	113	105	0.7	0	1
Funk G-4288 (3X)	28.8	30	—	108.6	104	—	0.8	1	—
*Funk G-4343 (2X)	28.9	29	28	143.1	127	119	0.0	1	1
*Michigan 4122 (2X)	28.9	—	—	141.3	—	—	0.0	—	—
Michigan 572-3X (3X)	29.0	30	29	124.3	112	112	0.0	0	1
Michigan 5443 (3X)	29.2	—	—	134.2	—	—	0.8	—	—
*Jacques JX122A (2X)	29.6	29	—	138.9	124	—	2.3	2	—
Northrup King PX 46 (2X)	29.6	—	—	113.4	—	—	0.0	—	—
Funk G-WX 302 (Sp.)	29.8	—	—	130.2	—	—	0.0	—	—
Adler 23X (2X)	29.9	31	29	117.5	103	96	0.0	0	0
Northrup King PX 32 (2X)	29.9	—	—	131.9	—	—	0.0	—	—
*Funk G-L2384 (Sp)	29.9	—	—	142.5	—	—	2.3	—	—
Blaney 7305 (2X)	30.1	29	—	125.6	116	—	0.0	0	—
Pride 5525 (2X)	30.3	—	—	111.8	—	—	0.0	—	—
Pioneer 3716 (3X)	30.4	—	—	112.1	—	—	0.0	—	—
Pioneer 3780 (2X)	30.5	32	29	132.9	116	111	3.9	3	3
Funk G-4408 (2X)	30.5	—	—	126.7	—	—	0.8	—	—
Cowbell 7440 (2X)	30.6	32	30	116.8	103	99	0.0	1	2
Migro M-1212 (2X)	30.8	32	29	109.2	96	94	0.0	3	4
DeKalb XL44 (2X)	31.0	32	—	122.3	104	—	0.0	2	—
Blaney B501A (2X)	31.0	—	—	117.2	—	—	0.8	—	—
Funk G-4321 (2X)	31.0	32	—	117.8	113	—	0.8	1	—
Michigan 575-2X (2X)	31.0	32	31	128.1	114	111	0.0	0	0
*Cardinal SX112 (2X)	31.4	33	—	136.4	115	—	2.3	4	—
*Acco UC4201 (2X)	31.4	32	31	139.3	119	112	0.0	0	2
*Michigan 5802 (2X)	31.5	33	—	136.8	125	—	0.8	0	—
Super Crost S27 (2X)	31.6	33	31	118.4	104	102	0.0	0	0
Trojan TXS102 (2X)	31.7	32	31	124.7	118	115	0.0	0	0
Cowbell 7300 (2X)	31.8	33	30	125.8	109	102	1.5	2	2
Funk G-4444 (2X)	31.8	33	31	121.2	110	104	2.4	2	1
*Asgrow RX58 (2X)	31.8	32	30	140.4	119	115	0.0	2	2
Cowbell 4100 (2X)	31.9	32	—	106.7	97	—	0.0	0	—
Blaney B606 (2X)	31.9	35	—	132.7	116	—	0.0	0	—
DeKalb XL22 (2X)	31.9	—	—	116.5	—	—	0.0	—	—
Jacques JX177 (2X)	32.0	—	—	115.5	—	—	0.0	—	—
Acco UC3201 (2X)	32.1	—	—	109.5	—	—	0.0	—	—
Pioneer 3518 (Sp)	32.1	34	32	118.6	99	101	0.0	0	0
Migro M-5040 (4X)	32.1	—	—	95.0	—	—	0.8	—	—
*Pioneer 3529 (Sp)	32.2	—	—	136.3	—	—	0.0	—	—
Northrup King PX50A (2X)	32.2	—	—	121.0	—	—	0.0	—	—
*Super Crost 2890 (2X)	32.2	33	—	136.2	118	—	0.0	0	—
Migro M-3020 (4X)	32.4	35	33	102.1	102	103	0.0	1	1
Garno S110 (2X)	32.4	—	—	104.2	—	—	0.8	—	—
Funk G-4366 (3X)	32.5	32	30	116.9	104	108	0.8	2	2
Pioneer 3535 (2X)	32.5	34	—	107.6	101	—	0.0	0	—
Cowbell 7480 (2X)	32.8	34	—	106.6	96	—	0.0	0	—
Stewart 3-3301 (2X)	33.0	—	—	106.2	—	—	0.8	—	—
Adler 415 (3X)	33.3	—	—	104.3	—	—	0.0	—	—
Super Crost 4242 (2X)	33.4	37	33	116.7	100	99	0.0	1	2
Northrup King PX74 (2X)	33.7	37	—	116.5	96	—	0.0	0	—
Northrup King PX65 (2X)	33.8	37	—	116.5	105	—	0.0	0	—
Northrup King PX48 (2X)	34.0	34	—	120.2	107	—	1.5	1	—
Migro M-0501 (2X)	34.0	37	35	117.1	105	100	0.0	1	0
Migro M-4501 (2X)	34.2	—	—	110.0	—	—	1.5	—	—
Average	30.2	31	29	120.2	109	106	0.6	1	1
Range	24.1 to 34.1	25 to 37	23 to 35	93.7 to 143.1	90 to 127	91 to 122	0.0 to 3.9	0 to 4	0 to 4
Least significant difference	1.2	0.8	0.7	14.2	7	5			

*Significantly better than average yield in 1975.

		1975	1974	1973
Planted		May 19	May 20	May 17
Harvested		October 17	October 22	October 20
Soil Type		Fox sandy loam	Fox sandy loam	Fox sandy loam
Previous crop		Corn	Wheat seeded to clover	Corn
Population		20,400	21,300	18,200
Rows		30"	30"	30"
Fertilizer		108-30-30	100-48-102	129-48-144
Soil test:	pH	6.5	6.7	6.7
	P	55 (very high)	111 (very high)	83 (very high)
	K	267 (high)	324 (very high)	240 (high)

Farm Cooperator: Richard Van Vrancken, Climax

County Extension Agent: Richard Bailey, Kalamazoo

Table 5. **SOUTHERN MICHIGAN** Zone 1
CASS COUNTY—IRRIGATED UPLAND SOIL
One, Two, Three Year Averages—
1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Michigan 280 (4X)	19.7	20	19	110.0	86	94	17.8	13	10
Blaney B302 (2X)	21.1	22	—	95.4	86	—	22.1	12	—
Michigan 333-3X (3X)	21.1	21	20	123.4	99	109	3.7	2	3
Blaney B401 (2X)	22.7	—	—	118.0	—	—	3.5	—	—
Blaney 7305 (2X)	22.9	22	—	159.9	113	—	7.8	4	—
Super Crost 1901 (2X)	22.9	24	—	142.3	110	—	8.1	5	—
Michigan 396-3X (3X)	22.9	22	21	152.9	117	129	7.0	5	5
Super Crost S25 (2X)	22.9	24	22	163.9	129	139	5.1	3	3
*Michigan 407-2X (2X)	22.9	23	21	172.0	130	141	6.2	7	7
*Blaney B606 (2X)	23.1	24	—	176.1	139	—	13.5	7	—
Adler 23X (2X)	23.1	—	—	141.9	—	—	2.8	—	—
Funk G-4288 (3X)	23.1	26	—	167.5	121	—	10.2	5	—
Pioneer 3780 (2X)	23.2	23	22	167.7	125	129	5.0	4	4
Cowbell 7300 (2X)	23.2	25	—	142.3	108	—	11.1	7	—
Michigan 410-2X (2X)	23.2	23	22	156.3	124	134	10.7	6	5
Golden Harvest H-2355 (2X)	23.2	23	—	129.9	103	—	8.0	10	—
Voris V2442 (2X)	23.3	26	—	146.1	125	—	4.6	2	—
Funk G-4343 (2X)	23.3	24	22	163.6	121	128	7.1	4	4
Michigan 4122 (2X)	23.4	23	—	166.6	—	—	1.1	—	—
P-A-G SX67 (2X)	23.4	—	—	114.2	—	—	8.3	—	—
Blaney BX-AA (2X)	23.4	24	—	169.0	139	—	8.6	6	—
Gutwein 40 (2X)	23.4	—	—	152.1	—	—	3.5	—	—
Golden Harvest H-2420 (2X)	23.7	24	—	164.1	129	—	5.5	3	—
Security SS105 (2X)	23.8	—	—	161.9	—	—	6.2	—	—
Pride P525 (2X)	23.9	—	—	167.4	—	—	2.4	—	—
Michigan 572-3X (3X)	24.0	24	23	146.2	121	132	3.0	2	1
Golden Harvest H-2290 (3X)	24.0	—	—	108.2	—	—	21.2	—	—
Golden Harvest H-2450 (2X)	24.2	24	—	168.7	124	—	13.2	7	—
O's Gold SX1100 (2X)	24.2	25	—	143.1	107	—	6.5	3	—
Funk G-4444 (2X)	24.3	24	23	161.0	122	134	5.1	4	5
Funk G-4321 (2X)	24.5	24	—	159.1	124	—	5.9	5	—
Cowbell 7480 (2X)	24.5	25	—	128.4	117	—	0.0	0	—
Gutwein 46 (2X)	24.5	—	—	166.1	—	—	2.3	—	—
*Prairie Stream SX3 (2X)	24.6	25	23	170.5	143	143	1.4	2	3
*Super Crost S27 (2X)	24.6	25	24	175.5	122	129	3.6	5	5
Migro M-1212 (2X)	24.6	25	23	132.1	101	115	8.5	4	4
Super Crost 2890 (2X)	24.6	24	—	133.7	113	—	7.6	4	—
Michigan 5443 (3X)	24.7	—	—	158.3	—	—	8.7	—	—
*Funk G-4408 (2X)	24.7	—	—	182.6	—	—	2.9	—	—
*Prairie Stream SX3A (2X)	24.7	26	—	186.3	140	—	6.4	3	—
Funk G-4366 (3X)	24.7	26	25	163.9	124	136	5.9	3	4
Cowbell 7440 (2X)	24.7	25	24	133.0	110	126	23.1	12	10
Michigan 575-2X (2X)	24.7	26	24	168.8	134	145	3.7	3	4
Gutwein 69A (2X)	24.7	—	—	150.8	—	—	2.9	—	—
*Pride 5574 (2X)	24.8	—	—	186.7	—	—	1.4	—	—
O's Gold SX 2102 (2X)	25.0	—	—	141.6	—	—	1.4	—	—
Pioneer 3716 (3X)	25.2	—	—	142.1	—	—	3.1	—	—
*Gutwein 48 (2X)	25.3	—	—	183.9	—	—	4.1	—	—
Northrup King PX46 (2X)	25.4	—	—	135.4	—	—	0.0	—	—
*P-A-G SX69 (2X)	25.5	—	—	172.3	—	—	0.7	—	—
*Michigan 5802 (2X)	25.5	26	—	180.2	138	—	1.0	1	—
*Bayless SX434M (2X)	25.5	25	—	175.0	134	—	5.6	3	—
*Gutwein 23 (2X)	25.5	—	—	181.9	—	—	3.5	—	—
Bayless SX434-3 (2X)	25.6	26	25	137.1	124	136	0.8	0	2
Super Crost 4242 (2X)	25.7	28	26	169.2	136	139	6.6	3	3
*Garno S110 (2X)	25.9	27	26	171.5	125	137	9.0	7	5
Migro M-5040 (4X)	26.1	—	—	156.0	—	—	5.8	—	—
*Acco UC3301 (2X)	26.1	—	—	172.8	—	—	0.0	—	—
Pioneer 3518 (Sp)	26.3	27	25	128.3	104	122	0.7	0	0
Acco UC4561 (2X)	26.3	—	—	137.0	—	—	7.4	—	—
Acco UC356 (3X)	26.4	—	—	168.0	—	—	4.1	—	—
Migro M-4501 (2X)	26.5	—	—	148.5	—	—	3.5	—	—
Northrup King PX614 (3X)	26.5	—	—	162.6	—	—	5.8	—	—
Pioneer 3535 (2X)	26.5	27	—	148.6	132	—	1.5	1	—
*Northrup King PX65 (2X)	26.6	29	—	179.5	144	—	6.4	3	—
Northrup King PX74 (2X)	26.8	29	—	167.9	143	—	5.3	3	—
Pioneer 3529 (Sp)	27.0	—	—	142.0	—	—	1.4	—	—
Gutwein 128 (Sp)	27.1	—	—	169.7	—	—	0.0	—	—
Migro M-3020 (4X)	27.5	28	26	139.3	129	136	5.7	3	4
Migro M-0501 (2X)	27.6	31	29	164.1	132	139	8.6	5	4
*Migro M-1130 (2X)	28.3	28	26	186.6	131	144	0.7	0	1
P-A-G SX424 (2X)	28.5	—	—	137.7	—	—	7.1	—	—
*Voris V2532 (2X)	28.6	—	—	176.9	—	—	6.5	—	—
Golden Harvest H-2500 (2X)	28.7	34	—	167.9	134	—	9.0	5	—
Northrup King PX610A (3X)	28.9	28	—	140.1	122	—	4.6	3	—
*Gutwein 62 (2X)	29.3	—	—	171.1	—	—	3.9	—	—
*Trojan TXS113 (2X)	30.9	—	—	186.1	—	—	2.8	—	—
Average	24.9	25	24	155.7	122	131	5.8	4	4
Range	19.7 to 30.9	20 to 34	19 to 29	95.4 to 186.7	86 to 144	94 to 145	0.0 to 22.1	0 to 13	0 to 10
Least significant difference	1.2	0.8	0.7	14.2	8	6			

*Significantly better than average yield in 1975.

		1975	1974	1973
Planted		May 13	May 5	May 12
Harvested		Oct. 21	Oct. 24	Oct. 23
Soil Type		Kalamazoo sandy loam	Kalamazoo sandy loam	Kalamazoo sandy loam
Previous Crop		Soybeans	Soybeans	Soybeans
Population		22,900	19,200	23,300
Rows		28"	28"	28"
Fertilizer		118-54-138	150-45-15	200-63-9
Irrigation		6 inches	8 inches	7.5 inches
Soil test:	pH	6.8	7.0	6.3
	P	87 (very high)	119 (very high)	95 (very high)
	K	328 (very high)	235 (high)	294 (high)

Farm Cooperator: Dave Cripe, Cassopolis

County Extension Director: G. Wayne Hothem, Cassopolis

Table 6 **SOUTHERN MICHIGAN** Zone 1
CASS COUNTY TRIAL—MUCK SOIL
One, Two, Three Year Averages—
1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Michigan 2833 (3X)	19.7	23	22	86.6	100	109	3.7	4	5
Trojan TX85 (3X)	20.4	—	—	89.3	—	—	6.4	—	—
Michigan 275-2X (2X)	20.5	23	22	93.7	101	102	10.8	8	8
Michigan 280 (4X)	20.8	23	22	100.2	97	100	15.8	9	8
Michigan 2853 (3X)	20.9	—	—	102.3	—	—	5.2	—	—
Super Crost 1692 (2X)	21.3	24	—	89.5	101	—	5.0	3	—
Blaney B33A (3X)	21.4	—	—	87.4	—	—	14.6	—	—
Blaney B302 (2X)	21.7	24	—	110.2	111	—	5.7	4	—
Migro M-0101 (2X)	21.7	25	—	123.9	125	—	4.4	3	—
Michigan 333-3X (3X)	21.7	25	23	113.4	118	121	9.2	5	5
Michigan 3102 (2X)	21.9	—	—	124.0	—	—	5.4	—	—
Northrup King PX 20 (2X)	22.0	—	—	124.8	—	—	2.9	—	—
Michigan 3093 (3X)	22.1	—	—	117.3	—	—	7.3	—	—
Golden Harvest H-2400 (3X)	22.1	—	—	86.9	—	—	7.0	—	—
Blaney 7305 (2X)	22.6	26	—	125.1	127	—	8.1	6	—
Golden Harvest H-2290 (3X)	22.9	—	—	85.7	—	—	10.6	—	—
Michigan 396-3X (3X)	23.0	26	24	112.0	118	125	6.7	3	3
*Funk G-4404 (2X)	23.2	28	26	144.6	148	149	3.7	3	3
Cowbell 4100 (2X)	23.3	27	—	110.9	114	—	7.8	5	—
Blaney B44A (3X)	23.4	—	—	98.1	—	—	4.5	—	—
Northrup King PX 32 (2X)	23.5	—	—	130.2	—	—	8.4	—	—
Golden Harvest H-2355 (2X)	23.6	26	—	121.8	127	—	6.3	3	—
*Michigan 4122 (2X)	23.6	—	—	142.4	—	—	2.1	—	—
Funk G-4195 (3X)	23.6	—	—	108.7	—	—	17.9	—	—
Acco UC 2901 (2X)	23.7	—	—	119.3	—	—	14.2	—	—
Michigan 407-2X (2X)	23.7	27	25	139.3	140	144	9.2	6	7
Blaney B401 (2X)	23.8	26	—	131.0	126	—	12.2	6	—
Cowbell 102 (2X)	23.8	—	—	117.5	—	—	5.5	—	—
Trojan TXS94 (2X)	23.9	—	—	106.5	—	—	5.0	—	—
Blaney B606 (2X)	24.0	—	—	135.0	—	—	8.6	—	—
Super Crost 2890 (2X)	24.1	31	—	121.0	118	—	5.6	3	—
Michigan 410-2X (2X)	24.1	28	26	128.2	139	141	10.9	8	6
*Golden Harvest H-2420 (2X)	24.2	30	—	149.4	133	—	8.2	6	—
*Pioneer 3716 (3X)	24.2	—	—	155.4	—	—	9.2	—	—
Wyckoff 1266SX (2X)	24.4	29	—	13.4	130	—	20.4	11	—
*Super Crost S25 (2X)	24.4	30	27	141.8	136	136	7.9	4	4
Acco UC 2301 (2X)	24.4	28	26	114.8	127	131	6.0	3	4
*Pride 5525 (2X)	24.5	—	—	142.4	—	—	5.9	—	—
Cowbell 7300 (2X)	24.5	30	27	100.3	109	115	18.1	10	10
Michigan 572-3X (3X)	24.5	29	27	122.8	132	137	8.0	5	4

(Continued)

TABLE 6. (Continued)

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
*Funk G-4343 (2X)	24.6	30	27	143.1	148	148	8.0	5	5
Pioneer 3780 (2X)	24.6	30	28	125.5	131	134	11.0	7	7
*Funk G-4321 (2X)	24.7	30	—	147.6	131	—	17.6	10	—
Adler 23X (2X)	24.9	—	—	139.3	—	—	22.9	—	—
Pride 5574 (2X)	24.9	—	—	132.1	—	—	38.7	—	—
Michigan 5443 (3X)	25.0	—	—	135.5	—	—	19.7	—	—
Funk G-4444 (2X)	25.0	29	27	121.5	129	138	20.1	10	10
Trojan TXS102A (2X)	25.1	31	—	116.6	110	—	6.0	4	—
*Funk G-4408 (2X)	25.1	—	—	140.2	—	—	5.5	—	—
Migro M-1212 (2X)	25.2	31	28	117.6	126	127	2.2	1	1
Super Crost S27 (2X)	25.2	29	28	115.3	123	132	17.4	10	9
Funk G-4288 (3X)	25.5	29	—	131.9	136	—	16.8	12	—
*Michigan 575-2X (2X)	25.5	31	29	143.8	138	143	4.3	3	2
Voris V2422 (2X)	25.6	—	—	119.6	—	—	15.6	—	—
*Pioneer 3535 (2X)	25.7	32	—	153.8	142	—	1.4	1	—
Super Crost 3433 (3X)	25.8	—	—	104.3	—	—	6.8	—	—
*Michigan 5802 (2X)	25.8	—	—	159.7	—	—	1.2	—	—
Migro M-4501 (2X)	25.8	—	—	133.3	—	—	8.2	—	—
*Wyckoff 2414 SX (2X)	25.8	32	—	150.3	141	—	7.1	5	—
Northrup King PX65 (2X)	25.9	34	—	138.1	135	—	0.7	1	—
Northrup King PX50A (2X)	26.4	32	—	128.3	128	—	3.0	2	—
*Super Crost 2572 (2X)	26.6	33	31	142.7	138	128	0.7	1	1
Migro M-5040 (4X)	26.6	—	—	127.8	—	—	6.2	—	—
Voris V2452 (2X)	26.6	—	—	132.7	—	—	12.3	—	—
Parker 36A (2X)	26.7	—	—	115.2	—	—	3.8	—	—
*Trojan TXS102 (2X)	26.8	—	—	154.1	—	—	4.2	—	—
Northrup King PX46 (2X)	26.9	—	—	120.4	—	—	6.0	—	—
Northrup King PX 606 (3X)	27.2	35	—	139.2	134	—	4.9	3	—
Funk G-4366 (3X)	27.2	32	30	135.5	132	135	11.6	7	5
*Migro M-1130 (2X)	27.2	33	30	154.9	152	151	6.0	4	4
*Golden Harvest H-2450 (2X)	27.5	29	—	144.5	143	—	9.3	6	—
Migro M-0501 (2X)	27.6	35	32	137.2	127	126	6.7	3	3
Migro M-3020 (4X)	27.7	34	31	138.3	126	131	0.7	0	3
Golden Harvest H-2500 (2X)	28.2	36	—	132.1	127	—	0.0	0	—
Northrup King PX48 (2X)	28.3	31	—	128.2	133	—	6.3	4	—
Average	24.4	29	27	125.2	127	131	8.6	5	5
Range	19.7 to 28.3	23 to 36	22 to 32	85.7 to 159.7	97 to 152	100 to 151	0.0 to 38.7	0 to 12	1 to 10
Least significant difference	1.1	0.9	0.7	14.1	8	5			

*Significantly better than average yield in 1975.

		1975	1974	1973
Planted		May 18	June 1	May 26
Harvested		Oct. 21	Oct. 23	Oct. 22
Soil Type		Carlisle muck	Carlisle muck	Carlisle muck
Previous Crop		Corn	Corn	Corn
Population		20,800	20,800	20,900
Rows		30"	30"	30"
Fertilizer		88-32-76	87-69-105	87-69-105
Soil Test:	pH	5.5	5.5	5.5
	P	80 (very high)	102 (very high)	60 (very high)
	K	510 (very high)	535 (very high)	483 (very high)

Farm Cooperator: Oliver, Russell, and Roger Anderson, Cassopolis

County Extension Director: G. Wayne Hothem, Cassopolis

Table 7 SOUTH CENTRAL MICHIGAN Zone 2

KENT COUNTY TRIAL

One, Two, Three Year Averages—1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Michigan 2833 (3X)	20.7	20	—	106.9	101	—	0.0	0	—
Michigan 2853 (3X)	21.2	—	—	118.2	—	—	2.4	—	—
Michigan 280 (4X)	21.4	21	21	121.4	107	112	5.9	4	4
Michigan 333-3X (3X)	21.5	22	22	127.5	115	119	2.6	3	3
Northrup King PX20 (2X)	21.9	—	—	119.3	—	—	1.4	—	—
Michigan 3093 (3X)	22.0	—	—	130.9	—	—	1.1	—	—
*Michigan 3102 (2X)	22.3	23	—	136.8	123	—	2.9	1	—
Michigan 275-2X (2X)	22.3	22	21	119.0	110	113	3.0	4	3
Funk G-4141 (2X)	22.9	—	—	131.1	—	—	0.0	—	—
*Funk G-4195 (3X)	23.9	22	22	138.0	119	123	1.5	1	2
Cowbell 102 (2X)	24.0	—	—	132.8	—	—	1.6	—	—
Michigan 306-3X (3X)	24.0	24	24	130.5	116	122	0.0	0	0
Migro M-1101 (2X)	24.1	25	24	118.3	106	117	0.7	3	2
Stewart 2-3102 (2X)	24.1	—	—	122.4	—	—	0.8	—	—
Super Crost 1692 (2X)	24.1	24	—	128.2	110	—	0.8	2	—
*Super Crost 1901 (2X)	24.2	25	—	136.6	111	—	0.9	3	—
Funk G-4252 (3X)	24.3	25	24	101.0	101	107	0.7	1	1
*Michigan 407-2X (2X)	24.3	25	25	138.5	125	133	0.7	1	1
Migro M-0101 (2X)	24.3	24	—	117.0	108	—	1.5	1	—
Michigan 410-2X (2X)	24.3	25	24	127.0	123	130	2.9	1	1
Super Crost 2772 (2X)	24.8	—	—	109.5	—	—	0.0	—	—
Migro M-1020 (3X)	24.8	24	—	116.5	106	—	0.8	1	—
*Funk 26516 (3X)	24.9	—	—	140.3	—	—	0.8	—	—
*Michigan 4122 (2X)	24.9	25	—	135.8	123	—	0.0	0	—
Pioneer 3784 (2X)	25.0	25	24	119.8	108	114	0.0	1	1
Golden Harvest H-2290 (3X)	25.0	—	—	100.2	—	—	0.7	—	—
Acco UC 2901 (2X)	25.1	—	—	109.1	—	—	1.8	—	—
Funk G-4384A (Sp.)	25.2	28	27	118.8	112	120	2.1	2	2
Gutwein 40 (2X)	25.2	—	—	112.0	—	—	0.0	—	—
Pioneer 3716 (3X)	25.2	—	—	109.9	—	—	0.7	—	—
Michigan 5443 (3X)	25.3	—	—	129.3	—	—	1.4	—	—
DeKalb XL16 (2X)	25.4	—	—	118.5	—	—	3.0	—	—
Wolverine W128 (2X)	25.6	—	—	104.4	—	—	0.7	—	—
Golden Harvest H-2355 (2X)	25.7	25	—	114.9	109	—	0.0	2	—
Funk G-4343 (2X)	25.7	25	25	109.9	109	119	1.5	1	1
Michigan 572-3X (3X)	25.7	26	26	119.1	114	123	0.0	0	0
Cowbell 7480 (2X)	25.8	28	—	102.7	104	—	0.9	0	—
Super Crost S27 (2X)	25.8	28	28	130.6	122	122	0.0	1	0
DeKalb XL12 (2X)	25.9	25	—	104.6	99	—	0.8	0	—
Trojan TXS99 (2X)	26.2	—	—	127.8	—	—	0.0	—	—
Funk G-4366 (3X)	26.2	27	26	125.6	114	123	0.7	1	1
Jacques JX62 (2X)	26.2	—	—	108.5	—	—	0.0	—	—
Cowbell 4100 (2X)	26.3	28	—	106.2	99	—	0.0	1	—
DeKalb XL22B (Sp.)	26.4	28	27	123.0	107	113	0.8	2	1
Northrup King PX 529 (3X)	26.5	28	—	127.0	115	—	2.3	2	—
Funk G-4444 (2X)	26.5	28	27	122.5	112	121	0.0	2	3
Michigan 575-2X (2X)	26.7	28	27	125.8	118	129	2.0	1	1
Golden Harvest H-2450 (2X)	26.8	28	—	128.7	117	—	0.0	2	—
Pioneer 3535 (2X)	26.9	—	—	123.6	—	—	1.4	—	—
Golden Harvest H-2420 (2X)	26.9	27	—	114.2	105	—	0.7	1	—
Migro M-1130 (2X)	27.0	30	28	126.5	114	119	0.0	1	1
Blaney B-AA (2X)	27.0	29	27	112.6	108	120	0.0	1	1
DeKalb XL42 (2X)	27.1	29	—	114.9	114	—	0.0	1	—
Wolverine W170 (2X)	27.2	—	—	131.9	—	—	1.5	—	—
*Renk RK 11AA (2X)	27.3	27	26	142.2	116	122	2.9	1	1
Trojan TXS 105A (2X)	27.3	26	—	129.0	120	—	0.7	1	—
Funk G-4288 (3X)	27.4	28	26	125.5	115	124	1.4	1	1
*Michigan 5802 (2X)	27.5	29	—	144.3	120	—	0.9	1	—
Funk G-L2384 (Sp.)	27.5	—	—	114.2	—	—	2.4	—	—
Cowbell 7440 (2X)	27.5	29	28	124.4	117	127	2.5	2	1
Cowbell 7300 (2X)	27.6	28	27	127.8	116	123	0.8	1	1
*Pioneer 3780 (2X)	27.7	27	26	139.0	124	132	2.9	2	2
Funk G-4321 (2X)	27.7	28	27	110.4	111	119	1.4	1	1
Migro M-1212 (2X)	27.7	27	26	113.2	104	113	2.5	4	3
Funk G-WX302 (Sp.)	28.0	—	—	112.3	—	—	0.0	—	—
Super Crost 2890 (2X)	28.1	—	—	113.1	—	—	0.8	—	—
Northrup King PX32 (2X)	28.6	26	—	110.3	109	—	0.8	0	—
Migro M-3020 (4X)	28.6	30	28	124.8	112	120	0.0	0	1
Trojan TXS102 (2X)	29.0	30	—	126.6	118	—	0.7	2	—
Northrup King PX46 (2X)	29.2	—	—	105.9	—	—	0.0	—	—
Voris V2452 (2X)	20.3	—	—	112.7	—	—	0.0	—	—
*Gutwein 23 (2X)	29.5	—	—	135.2	—	—	0.0	—	—
Voris V2402 (2X)	29.9	31	—	123.1	118	—	0.8	1	—
*Gutwein 46 (2X)	29.9	—	—	135.5	—	—	3.0	—	—
Golden Harvest H-2500 (2X)	30.0	35	—	103.0	105	—	0.0	0	—
*Migro M-0501 (2X)	30.9	34	32	148.4	124	132	0.0	0	0
Acco UC 3301 (2X)	30.9	—	—	114.1	—	—	0.7	—	—
Average	26.0	26	26	121.6	112	121	1.1	1	1
Range	20.7 to 30.9	20 to 35	21 to 32	100.2 to 148.4	99 to 125	107 to 133	0.0 to 5.9	0 to 4	0 to 4
Least significant difference	1.2	0.9	0.8	11.4	8	6			

*Significantly better than average yield in 1975.

(Continued)

TABLE 7. (Continued)

		1975	1974	1973
Planted		May 10	May 24	May 17
Harvested		Oct. 22	Oct. 25	Nov. 2
Soil Type		Belville loam	Belville loam	Belville loam
Previous Crop		Corn	Corn	Corn
Population		21,300	22,100	22,300
Rows		30"	30"	30"
Fertilizer		125-64-60	142-58-120, manure	123-58-120, manure
Soil Test:	pH	7.3	6.5	7.2
	P	41 (high)	38 (high)	53 (very high)
	K	257 (high)	240 (high)	337 (very high)

Farm Cooperator: Gerald Kayser, Caledonia

County Extension Agent: Robert Knisely, Grand Rapids

Table 8 **SOUTH CENTRAL MICHIGAN** Zone 2
MUSKEGON AND OTTAWA COUNTY TRIAL
One, Two, Three Year Averages—1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	2 Yrs.	3 Yrs.	Bushels per acre 1975	2 Yrs.	3 Yrs.	% Stalk lodging 1975	2 Yrs.	3 Yrs.
Michigan 2853 (3X)	20.1	23	—	96.2	90	—	0.9	0	—
Michigan 275-2X (2X)	20.3	24	24	101.1	89	90	1.0	1	2
Michigan 280 (4X)	20.5	24	25	99.4	88	89	1.7	1	2
Michigan 2833 (3X)	20.6	24	—	98.2	92	—	0.0	0	—
Michigan 3093 (3X)	21.1	—	—	126.4	—	—	0.0	—	—
Pride 2264 (2X)	21.9	26	—	101.5	96	—	0.0	0	—
Migro M-0101 (2X)	22.0	26	—	122.4	105	—	0.8	0	—
Michigan 333-3X (3X)	22.2	26	25	119.2	104	102	0.0	0	0
Northrup King PX 20 (2X)	22.9	—	—	127.4	—	—	0.0	—	—
Stewart 2-3102 (2X)	22.9	—	—	123.9	—	—	0.0	—	—
*Michigan 3102 (2X)	23.0	26	—	130.0	111	—	1.0	1	—
Funk G-4195 (3X)	23.0	25	26	109.8	97	99	2.2	1	2
Cowbell 102 (2X)	23.3	—	—	103.4	—	—	0.0	—	—
Funk G-4141 (2X)	23.7	—	—	107.0	—	—	0.0	—	—
Pride 3315 (2X)	24.0	—	—	99.3	—	—	0.0	—	—
Blaney B302 (2X)	24.1	—	—	96.2	—	—	0.0	—	—
*Funk G-4252 (3X)	24.1	27	28	128.7	104	107	2.3	1	1
Michigan 396-3X (3X)	24.2	28	28	119.8	103	110	0.8	0	1
Blaney B401 (2X)	24.9	—	—	105.3	—	—	0.0	—	—
Migro M-1020 (3X)	24.9	28	—	94.1	76	—	0.0	0	—
Acco UC 2301 (2X)	25.2	28	28	112.1	98	110	0.0	0	0
P.A.G. SX67 (2X)	25.3	—	—	94.1	—	—	0.0	—	—
Michigan 407-2X (2X)	25.4	29	29	127.6	113	119	0.0	0	1
Michigan 410-2X (2X)	25.6	29	30	113.0	98	107	0.0	0	1
Funk G-4343 (2X)	25.8	29	29	111.1	96	104	0.0	0	0
*Michigan 4122 (2X)	26.0	—	—	139.4	—	—	0.0	—	—
*Blaney 7305 (2X)	26.8	—	—	141.4	—	—	0.8	—	—
*Funk G-4321 (2X)	26.8	32	32	134.9	107	112	0.8	0	0
*Michigan 5443 (3X)	26.9	—	—	134.6	—	—	1.8	—	—
Northrup King PX46 (2X)	27.3	—	—	117.5	—	—	0.0	—	—
Michigan 572-3X (3X)	27.4	31	31	123.7	103	111	0.0	0	1
Cowbell 4100 (2X)	27.6	32	—	102.1	84	—	0.0	0	—
Funk G-4288 (3X)	27.7	30	—	114.7	102	—	1.5	1	—
Northrup King PX32 (2X)	28.2	30	—	108.5	95	—	0.0	0	—
*Cowbell 7300 (2X)	28.4	32	32	137.1	112	112	0.8	0	0
Migro M-1212 (2X)	28.6	31	31	108.6	90	104	0.0	0	0
Super Crost S 25 (2X)	28.8	31	31	119.7	97	101	0.0	0	0
*Pioneer 3780 (2X)	28.8	32	32	129.5	111	118	0.0	0	0
Michigan 575-2X (2X)	29.2	33	33	124.7	102	108	0.0	0	0
Super Crost S 27 (2X)	29.3	34	34	123.6	99	102	0.0	0	0
Funk G-4366 (3X)	29.4	34	34	113.6	101	104	0.8	0	0
*Funk G-4444 (2X)	29.6	32	32	133.2	109	114	0.0	0	1
Migro M-1130 (2X)	29.7	35	34	114.9	103	109	0.0	0	0
*Super Crost 2890 (2X)	29.8	35	—	145.0	109	—	0.0	0	—
Cowbell 7440 (2X)	29.9	33	33	102.8	91	98	0.0	0	0
Cowbell 7480 (2X)	29.9	34	—	113.9	90	—	2.2	1	—
P.A.G. 7317 (3X)	30.3	—	—	103.1	—	—	2.3	—	—
Michigan 5802 (2X)	30.4	—	—	127.7	—	—	1.0	—	—
Super Crost 2772 (2X)	30.5	34	33	104.4	91	101	1.5	1	1
Acco UC 3201 (2X)	31.2	—	—	106.2	—	—	0.0	—	—
Migro M-3020 (4X)	31.3	36	35	104.0	87	95	0.0	0	0
*Blaney B 606 (2X)	31.6	—	—	134.3	—	—	0.0	—	—
P.A.G. SX 210 (2X)	31.7	—	—	106.9	—	—	0.8	—	—
Pioneer 3535 (2X)	31.9	—	—	104.7	—	—	0.0	—	—
Migro M-0501 (2X)	33.1	40	39	107.9	87	98	0.0	0	0
Average	26.5	30	31	115.9	98	106	0.5	0.2	0.4
Range	20.1 to 33.1	23 to 40	24 to 39	94.1 to 145.0	76 to 113	89 to 119	0.0 to 2.3	0 to 1	0 to 2
Least significant difference	1.3	1.0	0.8	12.7	8	5			

*Significantly better than average yield in 1975.

		1975	1974	1973
Planted		May 17	June 1	June 11
Harvested		Oct. 24	Nov. 1	Oct. 31
Soil Type		Nester loam	Nester loam	Allen dale fine sandy loam
Previous Crop		Corn	Corn	Corn
Population		20,000	20,400	20,100
Rows		30"	30"	30"
Fertilizer		116-63-83	90-90-110	100-80-40, manure
Soil Test:	pH	6.7	6.2	7.1
	P	23 (medium)	74 (very high)	78 (very high)
	K	126 (medium)	80 (low)	234 (high)

Farm Cooperators: Robert Bonthuis, Ravenna (1975, 1974); James Busman, Coopersville (1973).

County Extension Directors: Harold Ferris, Muskegon (1975, 1974); Lawrence Stebbins, Grand Haven (1973).

Table 9. **SOUTH CENTRAL MICHIGAN** Zone 2
INGHAM COUNTY TRIAL—GRAIN
One, Two, Three Year Averages—1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	2 Yrs.	3 Yrs.	Bushels per acre 1975	2 Yrs.	3 Yrs.	% Stalk lodging 1975	2 Yrs.	3 Yrs.
Michigan 275-2X (2X)	23.0	25	24	118.6	111	103	2.4	3	0
Michigan 2853 (3X)	23.4	—	—	117.0	—	—	0.8	—	—
Michigan 2833 (3X)	23.5	—	—	113.3	—	—	0.0	—	—
Michigan 280 (4X)	23.7	25	24	110.7	103	97	0.8	1	0
Blaney B302 (2X)	24.0	27	26	120.7	113	111	0.8	0	0
Renk RK2 (2X)	24.1	—	—	101.3	—	—	8.9	—	—
Michigan 333-3X (3X)	24.2	26	25	125.9	122	116	0.8	1	1
Migro M-0101 (2X)	24.7	27	—	133.6	122	—	0.0	0	—
Michigan 3093 (3X)	24.8	—	—	138.1	—	—	0.0	—	—
Stewart 2-3102 (2X)	24.8	—	—	140.7	—	—	2.4	—	—
Northrup King PX20 (2X)	25.4	—	—	124.5	—	—	0.0	—	—
Garno S85X (2X)	25.6	—	—	137.6	—	—	0.0	—	—
Super Crost 1692 (2X)	25.7	28	27	102.8	102	98	1.7	1	1
Warwick TX27 (3X)	26.0	29	—	118.4	107	—	0.0	0	—
Michigan 3102 (2X)	26.1	—	—	144.5	—	—	0.0	—	—
Asgrow RX42 (2X)	26.2	27	—	135.8	120	—	0.0	1	—
Asgrow 2222 (2X)	26.4	—	—	126.7	—	—	0.0	—	—
Golden Harvest H-2290 (3X)	26.4	—	—	101.6	—	—	0.8	—	—
Super Crost 1610 (2X)	26.5	—	—	104.4	—	—	0.0	—	—
DeKalb XL12 (2X)	26.7	29	—	120.6	111	—	0.0	0	—
Funk G-4141 (2X)	26.9	—	—	141.6	—	—	0.0	—	—
P-A-G SX177 (2X)	27.0	—	—	144.3	—	—	0.0	—	—
Michigan 396-3X (3X)	27.2	29	28	136.6	133	124	0.0	0	0
Renk RK6 (2X)	27.5	—	—	105.5	—	—	0.8	—	—
Migro M-1020 (3X)	27.7	30	—	106.8	106	—	0.0	0	—
Warwick TX32 (3X)	27.8	—	—	117.3	—	—	0.0	—	—
Renk RK16 (2X)	27.8	—	—	133.4	—	—	0.8	—	—
Trojan TXS99 (2X)	27.9	—	—	119.0	—	—	0.0	—	—
Golden Harvest H-2355 (2X)	28.0	30	—	134.4	133	—	0.0	0	—
Blaney 7305 (2X)	28.2	30	—	128.2	124	—	0.0	1	—
*Northrup King PX32 (2X)	28.3	30	—	158.1	143	—	0.7	1	—
Warwick SL314 (2X)	28.4	—	—	131.0	—	—	0.0	—	—
Warwick SL501 (Sp)	28.5	31	30	148.2	125	115	0.0	0	0
*Michigan 407-2X (2X)	28.6	30	29	163.9	150	140	1.5	1	1
*Michigan 410-2X (2X)	28.9	31	30	160.0	148	136	0.0	0	0
*Funk G-4343 (2X)	29.1	30	30	159.7	141	128	1.5	1	1
Funk G-4288 (3X)	29.3	—	—	131.8	—	—	0.8	—	—
Michigan 4122 (2X)	29.4	31	—	159.9	148	—	0.0	0	—
DeKalb XL16 (2X)	29.6	31	—	136.6	129	—	0.0	0	—
Muncy Chief SX442 (2X)	30.1	—	—	101.1	—	—	0.0	—	—
Acco UC 2301 (2X)	30.3	34	32	133.1	132	121	0.0	0	0
Asgrow RX53 (2X)	30.3	31	—	131.7	118	—	0.0	0	—
Acco UC 2901 (2X)	30.4	—	—	128.9	—	—	0.0	—	—
Cowbell 7440 (2X)	30.4	32	—	149.4	145	—	0.0	0	—
Michigan 572-3X (3X)	30.5	33	31	148.6	140	131	0.0	0	0
*Asgrow RX58 (2X)	30.7	—	—	161.0	—	—	0.0	—	—
*Super Crost S27 (2X)	30.9	32	32	159.9	147	134	0.0	0	0
Renk RK 11AA (2X)	30.9	31	30	128.3	130	127	0.0	0	1
*Funk G-4321 (2X)	31.0	33	32	163.5	133	129	0.8	1	1
*Michigan 5443 (3X)	31.0	—	—	158.8	—	—	0.0	—	—

(Continued)

TABLE 9. (Continued)

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
*Funk G-4444 (2X)	31.0	33	32	160.9	150	139	0.8	0	0
*Cargill 863 (2X)	31.1	32	31	160.6	143	134	0.0	0	1
Northrup King PX46 (2X)	31.1	—	—	145.8	—	—	0.0	—	—
*Northrup King PX48 (2X)	31.2	33	—	160.1	145	—	0.0	0	—
*Security SS105 (2X)	31.2	—	—	164.9	—	—	0.7	—	—
*DeKalb XL19 (2X)	31.2	33	—	155.9	140	—	0.8	1	—
Renk RK44 (2X)	31.3	—	—	154.1	—	—	0.8	—	—
Migro M-1212 (2X)	31.3	33	32	126.7	120	114	0.0	0	0
*P.A.G. SX210 (2X)	31.3	—	—	160.6	—	—	0.0	—	—
Wolverine W177 (2X)	31.4	33	—	143.0	139	—	0.0	0	—
Funk G-WX302 (Sp.)	31.5	—	—	146.9	—	—	0.0	—	—
Funk G-L2384 (Sp.)	31.5	—	—	144.1	—	—	0.0	—	—
*Michigan 575-2X (2X)	31.5	33	32	161.6	150	139	0.9	0	0
Gutwein 40 (2X)	31.5	—	—	148.7	—	—	0.8	—	—
*Trojan TXS 105A (2X)	31.5	33	—	160.2	139	—	0.0	0	—
Cowbell 4100 (2X)	31.5	33	—	134.4	125	—	0.0	0	—
*Golden Harvest H-2450 (2X)	31.6	33	—	166.8	148	—	0.0	0	—
*DeKalb XL43A (2X)	31.6	34	—	160.0	145	—	0.0	0	—
*Golden Harvest H-2420 (2X)	31.6	32	—	162.3	143	—	0.0	0	—
*Cardinal SX112 (2X)	31.8	34	—	157.7	142	—	0.7	1	—
*Acco UC 3301 (2X)	31.8	34	33	161.6	150	141	0.0	0	0
*Pride 5525 (2X)	31.8	—	—	170.9	—	—	0.0	—	—
Super Crost 1901 (2X)	32.0	33	—	131.1	126	—	0.0	0	—
*Michigan 5802 (2X)	32.0	—	—	174.5	—	—	0.0	—	—
Funk G-4366 (2X)	32.1	34	33	142.4	132	125	0.8	0	0
P.A.G. SX69 (2X)	32.2	34	33	140.2	124	120	0.0	0	0
*Pioneer 3780 (2X)	32.2	34	33	155.9	148	133	0.7	0	0
Super Crost 2890 (2X)	32.3	34	—	155.2	137	—	0.0	0	—
Stewart 3-3301 (3X)	32.4	34	—	143.2	131	—	0.0	0	—
*Migro M-1130 (2X)	32.5	34	33	163.6	147	136	0.0	0	0
Super Crost 2772 (2X)	32.6	34	33	151.9	131	124	0.0	0	0
Super Crost S29 (2X)	32.7	—	—	141.3	—	—	0.0	—	—
Super Crost S25 (2X)	32.7	34	32	147.2	135	123	0.0	0	0
*Gutwein 46 (2X)	32.8	—	—	167.3	—	—	0.0	—	—
*Gutwein 23 (2X)	32.8	—	—	160.8	—	—	0.0	—	—
Wolverine W170 (2X)	32.8	—	—	153.0	—	—	0.0	—	—
*Cowbell 7300 (2X)	32.9	33	—	157.1	143	—	0.0	0	—
Muncy Chief H764 (4X)	32.9	37	36	139.2	120	119	0.0	0	1
Wolverine W176 (2X)	33.0	34	33	144.9	131	123	0.0	0	0
Cowbell 7480 (2X)	33.0	35	—	116.9	119	—	0.0	0	—
Wolverine W174 (2X)	33.1	35	—	150.9	134	—	0.0	0	—
Migro M-3020 (4X)	33.2	36	35	142.1	130	124	0.0	0	0
Security SS108 (2X)	33.2	—	—	117.8	—	—	0.8	—	—
Trojan TXS102 (2X)	33.2	34	—	144.5	142	—	0.0	0	—
Muncy Chief SX550 (2X)	33.2	35	34	135.9	119	109	0.0	0	0
Cargill 434 (3X)	33.4	34	—	150.3	131	—	0.0	0	—
*Security SS105 WX (2X)	33.5	—	—	164.9	—	—	0.7	—	—
Blaney B606 (2X)	33.5	35	—	146.8	145	—	0.0	0	—
*Cargill 890 (2X)	33.6	—	—	162.9	—	—	0.0	—	—
Cargill 920 (2X)	34.0	—	—	149.2	—	—	0.0	—	—
Voris V2442 (2X)	34.0	36	—	128.2	127	—	0.0	0	—
P.A.G. SX397 (2X)	34.1	36	—	148.7	133	—	0.0	2	—
Muncy Chief SX662 (2X)	34.3	37	36	137.9	127	116	0.0	0	0
P.A.G. SX424 (2X)	34.5	—	—	137.0	—	—	0.0	—	—
Pioneer 3535 (2X)	34.5	—	—	137.0	—	—	0.0	—	—
Golden Harvest H-2500 (2X)	35.9	39	—	126.3	131	—	0.0	0	—
Migro M-0501 (2X)	36.1	38	37	118.3	117	115	0.0	0	0
Voris V2532 (2X)	36.2	—	—	126.7	—	—	0.0	—	—
Muncy Chief SX878 (2X)	36.9	39	37	105.8	106	97	0.0	0	0
Average	30.3	32	31	140.8	131	123	0.3	0.3	0.2
Range	23.0 to 36.9	25 to 39	24 to 37	101.3 to 174.5	102 to 150	97 to 141	0.0 to 8.9	0 to 3	0 to 2
Least significant difference	1.2	0.8	0.6	14.6	8	6	—	—	—

*Significantly better than average yield in 1975.

		1975	1974	1973
Planted		May 3	April 27	April 27
Harvested		Sept. 29	Oct. 7	Oct. 1
Soil Type		Conover clay loam	Conover clay loam	Conover clay loam
Previous Crop		Corn	Corn	Corn
Population		20,500	19,700	20,200
Rows		36"	36"	36"
Fertilizer		136-36-36	134-0-48	138-36-36
Soil Test:	pH	6.4	6.8	6.9
	P	18 (medium)	80 (very high)	39 (high)
	K	245 (high)	175 (medium)	172 (medium)

Farm Cooperators: Michigan State University, East Lansing
County Extension Director: James Mulvaney, Mason

Table 10 **SOUTH CENTRAL MICHIGAN** Zone 2

INGHAM COUNTY TRIAL—SILAGE

One, Two, Three Year Averages—
1975, 1974, 1973

Hybrid (Brand-Variety)	% Dry Matter 1975	% Dry Matter 2 Yrs.	% Dry Matter 3 Yrs.	Tons per Acre Green Weight 1975	Tons per Acre Green Weight 2 Yrs.	Tons per Acre Green Weight 3 Yrs.	Tons per Acre Dry Weight 1975	Tons per Acre Dry Weight 2 Yrs.	Tons per Acre Dry Weight 3 Yrs.
Renk RK2 (2X)	45.3	—	—	11.9	—	—	5.4	—	—
Michigan 275-2X (2X)	43.3	40.8	41.3	14.8	15.2	13.8	6.4	6.2	5.7
Michigan 280 (4X)	43.0	40.2	41.2	15.8	16.4	14.8	6.8	6.6	6.1
Michigan 2853 (3X)	42.6	—	—	15.3	—	—	6.5	—	—
Michigan 2833 (3X)	42.4	—	—	15.1	—	—	6.4	—	—
Blaney B302 (2X)	41.9	39.1	41.1	14.3	15.6	14.6	6.0	6.1	6.0
Michigan 333-3X (3X)	40.4	37.9	40.0	16.8	16.9	15.2	6.8	6.4	6.1
Super Crost 1692 (2X)	39.9	38.6	40.3	17.3	16.6	14.9	6.9	6.4	6.0
Asgrow RX42 (2X)	39.6	38.2	—	17.7	16.5	—	7.0	6.3	—
Migro M-0101 (2X)	38.6	37.8	—	18.9	18.0	—	7.3	6.8	—
Golden Harvest H-2355 (2X)	38.6	38.3	—	17.7	16.2	—	6.8	6.2	—
Northrup King PX20 (2X)	38.1	—	—	16.5	—	—	6.3	—	—
Warwick SL314 (2X)	37.9	—	—	17.9	—	—	6.8	—	—
Michigan 3093 (3X)	37.6	—	—	18.6	—	—	7.0	—	—
Funk G-4141 (2X)	37.6	—	—	18.9	—	—	7.1	—	—
Warwick TX27 (3X)	36.9	35.4	—	18.4	17.5	—	6.8	6.2	—
Renk RK16 (2X)	36.8	—	—	18.0	—	—	6.6	—	—
DeKalb XL12 (2X)	36.6	35.7	—	16.4	15.4	—	6.0	5.5	—
Super Crost 1610 (2X)	36.2	—	—	14.9	—	—	5.4	—	—
Migro M-1020 (3X)	36.1	35.8	—	16.3	16.5	—	5.9	5.9	—
Warwick SL501 (Sp.)	35.9	35.2	38.0	18.5	18.2	15.8	6.6	6.4	6.0
Trojan TXS99 (2X)	35.8	—	—	17.4	—	—	6.2	—	—
Golden Harvest H-2290 (3X)	35.4	—	—	14.1	—	—	5.0	—	—
Renk RK6 (2X)	35.3	—	—	17.5	—	—	6.2	—	—
Warwick TX32 (3X)	35.2	—	—	16.0	—	—	5.6	—	—
Garno S-85X (2X)	35.0	—	—	18.4	—	—	6.4	—	—
DeKalb XL16 (2X)	35.0	34.8	—	20.3	20.1	—	7.1	7.0	—
Asgrow RX53 (2X)	34.7	35.5	—	20.2	20.0	—	6.9	7.1	—
Michigan 396-3X (3X)	34.6	34.9	38.1	19.9	18.9	16.8	6.9	6.6	6.4
Michigan 3102 (2X)	34.3	—	—	21.1	—	—	7.2	—	—
Muncy Chief SX442 (2X)	34.2	—	—	17.3	—	—	5.9	—	—
Asgrow 2222 (2X)	34.2	—	—	17.5	—	—	6.0	—	—
Michigan 407-2X (2X)	34.2	34.7	36.8	21.5	19.9	18.2	7.3	6.9	6.7
Super Crost S27 (2X)	34.1	35.5	38.0	21.3	19.7	17.9	7.3	7.0	6.8
Gutwein 40 (2X)	33.9	—	—	21.5	—	—	7.3	—	—
Blaney 7305 (2X)	33.7	35.2	—	21.7	19.6	—	7.3	6.9	—
Acco UC 2901 (2X)	33.7	—	—	22.1	—	—	7.6	—	—
Stewart 2-3102 (2X)	33.7	—	—	20.8	—	—	7.0	—	—
Renk RK11AA (2X)	33.5	33.2	35.4	19.4	19.0	18.1	6.5	6.3	6.4
DeKalb XL19 (2X)	33.5	32.9	—	22.1	22.2	—	7.4	7.3	—
Michigan 4122 (2X)	33.5	34.0	—	22.4	20.6	—	7.5	7.0	—
Acco UC2301 (2X)	33.1	35.0	37.0	21.4	19.7	17.3	7.1	6.9	6.4
Funk G-4321 (2X)	33.1	33.8	36.0	23.6	22.2	20.0	7.8	7.5	7.2
Michigan 410-2X (2X)	33.1	31.8	34.5	23.3	21.4	19.4	7.7	6.8	6.7
Northrup King PX32 (2X)	33.0	33.8	—	22.9	20.4	—	7.5	6.9	—
Cowbell 7440 (2X)	32.8	34.2	—	21.5	20.2	—	7.1	6.9	—
P.A.G. SX177 (2X)	32.5	—	—	22.4	—	—	7.2	—	—
Cardinal SX112 (2X)	32.5	34.1	—	18.9	17.9	—	6.1	6.1	—
Funk G-4288 (3X)	32.3	32.9	35.3	24.2	21.3	18.7	7.8	7.0	6.6
P.A.G. SX210 (2X)	32.3	—	—	22.1	—	—	7.1	—	—
Northrup King PX 48 (2X)	32.2	34.5	—	22.4	20.3	—	7.2	7.0	—
Migro M-1212 (2X)	32.1	31.9	34.9	19.0	18.2	16.9	6.1	5.8	5.9
Asgrow RX58 (2X)	32.0	—	—	22.5	—	—	7.2	—	—
Migro M-1130 (2X)	32.0	32.1	35.3	21.1	19.6	18.7	6.7	6.3	6.6
Michigan 572-3X (3X)	32.0	32.9	34.9	22.8	21.3	19.5	7.3	7.0	6.8
DeKalb XL43A (2X)	31.9	32.3	—	23.2	22.0	—	7.4	7.1	—
Trojan TXS102 (2X)	31.9	33.3	—	23.2	20.1	—	7.4	6.7	—
Funk G-4343 (2X)	31.9	34.3	36.5	24.1	21.3	19.2	7.7	7.3	7.0
Security SS105 (2X)	31.9	—	—	21.3	—	—	6.8	—	—
Funk G-4444 (2X)	31.9	33.3	36.1	25.1	21.6	19.4	8.0	7.2	7.0
Funk G-WX302 (Sp.)	31.9	32.0	—	24.3	23.1	—	7.8	7.4	—
Renk RK44 (2X)	31.8	—	—	24.5	—	—	7.8	—	—
Golden Harvest H-2450 (2X)	31.8	34.1	—	24.8	20.8	—	7.9	7.1	—
Golden Harvest H-2420 (2X)	31.8	32.8	—	24.8	23.2	—	7.9	7.6	—
Stewart 3-3301 (3X)	31.8	33.6	—	24.2	22.3	—	7.7	7.5	—
Cargill 863 (2X)	31.8	—	—	23.3	—	—	7.4	—	—
Pioneer 3780 (2X)	31.7	29.6	35.7	25.6	22.8	10.6	8.1	7.7	7.0
Wolverine W177 (2X)	31.7	34.8	—	22.7	20.4	—	7.2	7.1	—
Funk G-4366 (3X)	31.7	33.2	35.4	24.6	21.4	18.9	7.8	7.1	6.7
Wolverine W176 (2X)	31.7	32.4	35.6	21.1	18.8	17.7	6.7	6.1	6.3
Super Crost S25 (2X)	31.7	31.8	34.7	19.9	17.6	17.0	6.3	5.6	5.9
Super Crost 2772 (2X)	31.7	32.0	34.4	22.1	20.0	19.2	7.0	6.4	6.6
Michigan 5443 (3X)	31.7	—	—	23.7	—	—	7.5	—	—
Cowbell 7300 (2X)	31.6	31.2	—	21.4	20.2	—	6.8	6.3	—
Michigan 575-2X (2X)	31.6	32.3	34.4	25.0	23.5	21.2	7.9	7.6	7.3
Wolverine W174 (2X)	31.3	30.4	—	23.1	22.4	—	7.2	6.8	—

(Continued)

TABLE 10. (Continued)

Hybrid (Brand-Variety)	% Dry Matter 1975	% Dry Matter 2 Yrs.	% Dry Matter 3 Yrs.	Tons per Acre Green Weight 1975	Tons per Acre Green Weight 2 Yrs.	Tons per Acre Green Weight 3 Yrs.	Tons per Acre Dry Weight 1975	Tons per Acre Dry Weight 2 Yrs.	Tons per Acre Dry Weight 3 Yrs.
P.A.G. SX69 (2X)	31.2	31.1	34.8	22.9	19.5	18.1	7.1	6.1	6.3
Northrup King PX46 (2X)	31.1	—	—	22.2	—	—	6.9	—	—
Funk G-L2384 (Sp.)	30.9	—	—	21.0	—	—	6.5	—	—
Cargill 434 (3X)	30.8	31.8	—	24.6	21.7	—	7.6	6.9	—
Cowbell 4100 (2X)	30.7	31.4	—	20.8	18.5	—	6.4	5.8	—
Super Crost 1901 (2X)	30.4	31.8	—	20.0	19.8	—	6.0	6.3	—
Super Crost S29 (2X)	30.4	33.0	—	20.9	18.8	—	6.4	6.2	—
Super Crost S2890 (2X)	30.4	30.0	—	25.2	23.6	—	7.6	7.1	—
Michigan 5802 (2X)	30.3	32.5	—	26.4	23.1	—	8.0	7.5	—
Muncy Chief SX662 (2X)	30.2	31.1	32.5	24.4	21.9	20.3	7.3	6.8	6.6
Trojan TXS105A (2X)	30.1	32.2	—	24.4	21.1	—	7.4	6.8	—
Security SS105WX (2X)	30.1	—	—	25.3	—	—	7.6	—	—
Cargill 890 (2X)	30.1	—	—	27.6	—	—	8.3	—	—
Acco UC 3301 (2X)	30.1	32.4	35.1	24.6	20.7	18.8	7.4	6.7	6.6
Voris V2442 (2X)	30.0	31.6	—	27.7	24.7	—	8.3	7.8	—
Gutwein 23 (2X)	30.0	—	—	27.0	—	—	8.1	—	—
Pride 5525 (2X)	29.9	—	—	23.4	—	—	7.0	—	—
P.A.G. SX424 (2X)	29.8	—	—	25.7	—	—	7.5	—	—
Gutwein 46 (2X)	29.5	—	—	25.3	—	—	7.4	—	—
Security SS108 (2X)	29.5	—	—	22.1	—	—	6.5	—	—
Blaney B606 (2X)	29.4	29.7	—	20.1	19.5	—	5.9	5.8	—
Muncy Chief SX550 (2X)	29.1	32.1	33.5	20.9	18.7	17.0	6.1	6.0	5.7
Golden Harvest H-2500 (2X)	28.9	29.1	—	27.6	26.5	—	7.9	7.7	—
Voris V2532 (2X)	28.2	—	—	26.5	—	—	7.4	—	—
Wolverine W170 (2X)	27.9	—	—	22.4	—	—	6.2	—	—
Migro M-0501 (2X)	27.6	28.8	29.6	24.2	22.6	22.6	6.7	6.5	6.7
Migro M-3020 (4X)	27.5	29.3	31.5	29.1	25.6	23.5	8.0	7.5	7.4
Muncy Chief H764 (4X)	27.5	28.3	30.1	30.9	26.5	23.9	8.5	7.5	7.2
P.A.G. SX397	27.5	28.3	—	23.3	23.3	—	6.4	6.6	—
Cowbell 7480 (2X)	27.5	30.5	—	22.5	22.0	—	6.2	6.7	—
Muncy Chief SX878 (2X)	27.4	26.6	28.8	25.2	23.3	21.2	6.9	6.2	6.1
Cargill 920 (2X)	27.3	—	—	23.8	—	—	6.5	—	—
Pioneer 3535 (2X)	27.3	—	—	25.6	—	—	7.0	—	—
Average	33.0	33.2	35.0	21.5	20.2	18.3	7.0	6.7	6.4
Range	27.3 to 45.3	26.6 to 40.8	28.8 to 41.3	11.9 to 30.9	15.2 to 26.5	13.8 to 23.9	5.0 to 8.5	5.5 to 7.8	5.7 to 7.4
Least significant difference	1.6	0.9	0.7	1.6	0.8	0.6	0.6	0.4	0.3

		1975	1974	1973
Planted		May 3	April 27	April 27
Harvested		August 28	Sept. 10	Sept. 6
Soil Type		Conover clay loam	Conover clay loam	Conover clay loam
Previous Crop		Corn	Corn	Corn
Population		20,400	19,200	19,600
Rows		36"	36"	36"
Fertilizer		136-36-36	134-0-48	138-36-36
Soil Test:	pH	6.4	6.8	6.9
	P	18 (medium)	80 (very high)	39 (high)
	K	245 (high)	175 (medium)	172 (medium)

Farm Cooperator: Michigan State University, East Lansing

County Extension Director: James Mulvaney, Mason

Table 11 **NORTH CENTRAL MICHIGAN** Zone 3

SANILAC COUNTY TRIAL—GRAIN

One, Two, Three Year Averages—1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Michigan 2833 (3X)	20.1	23	23	129.8	119	119	1.4	1	2
Michigan 280 (4X)	20.7	24	23	122.1	113	108	0.0	2	5
Michigan 2853 (3X)	21.3	24	—	131.2	122	—	0.0	0	—
Michigan 275-2X (2X)	22.3	24	24	128.6	119	114	0.0	0	4
Blaney B302 (2X)	22.9	25	25	133.9	121	122	0.0	0	1
Pioneer 3965 (3X)	23.2	25	—	127.6	112	—	0.0	0	—
Asgrow RX35A (2X)	23.3	—	—	130.0	—	—	0.0	—	—
Cargill 830 (2X)	23.5	—	—	142.0	—	—	0.0	—	—
Michigan 3102 (2X)	23.6	26	—	149.4	133	—	0.0	0	—
Michigan 333-3X (3X)	23.6	26	25	147.1	129	124	0.8	—	2
Funk G-4195 (3X)	23.7	26	25	144.9	126	121	0.0	1	8
DeKalb XL10 (2X)	23.7	28	—	142.2	121	—	0.0	0	—
DeKalb XL12 (2X)	23.8	26	26	139.2	119	114	0.0	0	2
Northrup King PX 20 (2X)	24.1	26	—	131.9	121	—	0.8	0	—
Asgrow RX32 (2X)	24.2	—	—	130.2	—	—	0.0	—	—
Wolverine W128 (2X)	24.2	—	—	132.6	—	—	0.0	—	—
Michigan 3093 (3X)	24.3	—	—	143.1	—	—	0.0	—	—
Super Crost 1692 (2X)	24.5	26	26	115.3	112	116	0.0	0	2
Pioneer 3958 (2X)	24.6	28	—	149.6	132	—	0.0	0	—
Stewart 2-3102 (2X)	24.9	—	—	122.3	—	—	0.0	—	—
Pioneer 3956A (2X)	25.1	26	26	126.1	113	110	0.0	0	7
Pioneer 3955 (3X)	25.2	—	—	123.5	—	—	0.0	—	—
Stewart 2914 (2X)	25.3	—	—	109.8	—	—	2.5	—	—
Blaney B401 (2X)	25.4	28	27	147.4	130	130	0.0	0	2
Asgrow RX42 (2X)	25.5	26	26	151.0	131	127	0.8	0	2
Garno S-85X (2X)	25.8	27	27	135.0	120	121	0.8	0	6
*Blaney 7305 (2X)	25.8	27	—	163.6	138	—	0.0	0	—
Michigan 410-2X (2X)	25.8	29	28	158.8	138	140	0.0	0	3
P.A.G. SX177 (2X)	26.1	—	—	143.3	—	—	0.8	—	—
Funk G-4141 (2X)	26.3	—	—	128.7	—	—	0.8	—	—
Pride 3315 (2X)	26.4	—	—	120.8	—	—	0.0	—	—
*Funk 26516 (3X)	26.4	—	—	163.0	—	—	0.0	—	—
Trojan TXS94 (2X)	26.5	—	—	143.4	—	—	0.0	—	—
Gutwein 08 (2X)	26.5	—	—	124.9	—	—	0.0	—	—
Funk G-4252 (3X)	26.6	27	27	135.1	115	120	0.8	0	1
Michigan 407-2X (2X)	26.6	29	28	160.3	140	145	0.0	0	3
DeKalb XL16 (2X)	26.8	31	—	160.5	134	—	0.0	0	—
Acco UC 1151 (2X)	26.8	30	—	137.4	112	—	0.0	0	—
Migro M-0101 (2X)	26.9	28	—	130.6	115	—	0.0	0	—
Michigan 396-3X (3X)	27.2	28	28	148.7	131	133	0.0	0	3
Michigan 4122 (2X)	27.2	29	—	157.2	138	—	0.0	0	—
Pioneer 3784 (2X)	27.2	30	29	159.9	140	138	0.0	0	0
Funk G-4343 (2X)	27.2	30	29	150.3	128	128	0.0	0	2
Security SS97 (2X)	27.2	—	—	154.1	—	—	0.8	—	—
Migro M-1020 (3X)	27.3	29	—	139.2	123	—	0.0	0	—
Acco UC 2901 (2X)	27.9	—	—	158.9	—	—	0.0	—	—
P.A.G. SX67 (2X)	28.0	—	—	136.7	—	—	0.0	—	—
*Funk G-4288 (3X)	28.0	32	31	164.2	136	135	0.0	0	4
Northrup King PX529 (3X)	28.1	32	—	160.6	133	—	0.8	0	—
*Pride 4404 (2X)	28.1	—	—	164.1	—	—	0.0	—	—
DeKalb XL21 (2X)	28.2	—	—	159.5	—	—	0.0	—	—
Gutwein 10A (2X)	28.3	—	—	131.7	—	—	0.0	—	—
Stewart 2-3001 (2X)	28.3	31	—	140.8	123	—	0.0	0	—
*Gutwein 40 (2X)	28.5	—	—	171.6	—	—	0.8	—	—
Migro M-1212 (2X)	28.6	32	31	140.0	111	127	0.0	0	0
*Wolverine W166 (2X)	28.8	31	—	170.7	138	—	1.5	1	—
Northrup King PX46 (2X)	29.1	—	—	149.3	—	—	0.0	—	—
Michigan 5443 (3X)	29.1	—	—	160.9	—	—	1.7	—	—
Michigan 572-3X (3X)	29.1	32	31	154.5	131	137	0.0	0	0
Jacques JX122A (2X)	29.2	—	—	159.8	—	—	0.8	—	—
*Pioneer 3780 (2X)	29.3	33	—	167.8	131	—	0.0	0	—
Northrup King PX32 (2X)	29.8	30	—	150.7	132	—	0.0	0	—
*Michigan 575-2X (2X)	29.8	33	—	166.1	137	—	0.0	0	—
*Funk G-4444 (2X)	29.9	33	32	162.7	142	144	0.0	0	1
Funk G-4321 (2X)	30.0	33	32	150.4	130	140	0.0	0	1
Garno WX91 (2X)	30.0	31	—	136.0	116	—	0.0	1	—
Cargill 863 (2X)	30.4	—	—	135.8	—	—	0.0	—	—
*Security SS105 (2X)	30.5	—	—	164.7	—	—	0.0	—	—
Super Crost 1901 (2X)	30.5	32	—	132.7	123	—	0.0	0	—
Garno S-92 (2X)	20.6	32	—	148.8	126	—	0.0	0	—
*Trojan TXS102 (2X)	30.9	—	—	174.9	—	—	0.0	—	—
Cardinal SX105 (2X)	31.1	—	—	140.8	—	—	0.0	—	—
Michigan 5802 (2X)	31.2	—	—	158.6	—	—	0.0	—	—
*Super Crost S27 (2X)	31.2	33	33	163.2	133	143	0.0	0	0
Super Crost S25 (2X)	31.8	34	32	134.0	109	126	0.0	0	4
P.A.G. SX210 (2X)	31.8	—	—	149.4	—	—	0.8	—	—
P.A.G. SX69 (2X)	31.9	35	33	140.3	120	122	0.8	0	3
Gutwein 23 (2X)	32.2	—	—	152.4	—	—	0.0	—	—
Acco UC 3301 (2X)	32.5	—	—	151.6	—	—	0.0	—	—
Northrup King PX50A (2X)	32.5	35	34	148.4	121	129	0.0	0	1
*Super Crost 2890 (2X)	32.9	36	—	165.1	131	—	0.8	0	—
Migro M-1130 (2X)	33.1	36	35	147.3	122	135	0.0	0	2
Average	26.5	29	28	145.7	126	128	0.2	0.1	0.3
Range	20.1 to 33.1	23 to 36	23 to 35	109.8 to 174.9	109 to 142	108 to 145	0.0 to 2.5	0 to 2	0 to 2
Least significant difference	1.1	0.8	0.6	15.9	8	6			

*Significantly better than average yield in 1975.

(Continued)

TABLE 11. (Continued)

		1975	1974	1973
Planted		May 15	May 22	May 22
Harvested		Oct. 22	Oct. 25	Oct. 31
Soil Type		Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop		Corn	Corn	Corn
Population		20,400	21,400	20,100
Rows		30"	30"	30"
Fertilizer		30-30-30	122-88-88	118-72-72
Soil Test:	pH	7.0	6.6	6.6
	P	83 (very high)	51 (very high)	47 (very high)
	K	195 (high)	241 (high)	229 (high)

Farm Cooperator: Orville Orchard, Applegate

County Extension Director: Rex Sieting, Sandusky

Table 12 NORTH CENTRAL MICHIGAN Zone 3

SANILAC COUNTY TRIAL—SILAGE
One Year Averages—1975
No Previous Trials

Hybrid (Brand-Variety)	% Dry Matter	Tons per Acre Green Weight	Tons per Acre Dry Weight
Michigan 275-2X (2X)	42.0	14.7	6.2
Pioneer 3958 (2X)	41.7	15.6	6.5
Pioneer 3956A (2X)	39.9	17.0	6.8
Michigan 280 (4X)	39.7	16.9	6.7
Michigan 2833 (3X)	39.6	16.7	6.6
Asgrow RX35A (2X)	36.7	17.0	6.3
Michigan 2853 (3X)	36.5	17.8	6.5
Super Crost 1692 (2X)	36.2	18.5	6.7
Trojan TXS94 (2X)	35.7	20.2	7.2
Migro M-0101 (2X)	35.6	18.6	6.6
Security SS97 (2X)	35.5	20.3	7.2
Northrup King PX20 (2X)	35.4	19.8	7.0
DeKalb XL10 (2X)	35.1	21.0	7.2
Michigan 333-3X (3X)	35.0	20.0	7.0
Gutwein 08 (2X)	34.7	18.3	6.3
Michigan 396-3X (3X)	34.4	22.5	7.7
Wolverine W128 (2X)	34.1	17.7	6.0
Pioneer 3965 (3X)	34.1	22.1	7.7
Funk G-4195 (3X)	34.1	22.3	7.6
Garno S-85X (2X)	34.1	22.9	7.8
Cargill 830 (2X)	33.8	23.7	8.0
Stewart 2914 (2X)	33.7	15.7	5.3
Stewart 2-3001 (2X)	33.6	16.4	5.5
Asgrow RX32 (2X)	33.5	20.6	6.9
P.A.G. SX177 (2X)	33.5	21.8	7.3
DeKalb XL12 (2X)	33.2	20.0	6.6
Michigan 3102 (2X)	33.1	23.3	7.7
Stewart 2-3102 (2X)	33.0	20.6	6.8
Asgrow RX42 (2X)	33.0	22.0	7.3
Blaney B302 (2X)	32.9	18.9	6.2
Pioneer 3955 (3X)	32.8	19.2	6.2
Blaney B401 (2X)	32.7	23.9	7.8
Funk G-4141 (2X)	32.5	23.0	7.5
DeKalb XL16 (2X)	32.0	23.1	7.4
Michigan 3093 (3X)	31.9	24.3	7.5
Gutwein 10A (2X)	31.7	24.9	7.9
Funk G-4288 (3X)	31.3	23.8	7.4
Pioneer 3784 (2X)	31.2	21.0	6.5
Migro M-1020 (3X)	31.1	19.1	6.0
Northrup King PX529 (3X)	31.0	21.7	6.7
Michigan 407-2X (2X)	31.0	23.2	7.2
Northrup King PX32 (2X)	30.7	26.1	8.0
Blaney 7305 (2X)	30.7	24.4	7.5
Northrup King PX46 (2X)	30.7	23.9	7.3
Michigan 410-2X (2X)	30.7	23.9	7.3
Wolverine W166 (2X)	30.6	24.2	7.4
Michigan 4122 (2X)	30.6	25.8	7.9
Funk G-4252 (3X)	30.6	25.5	7.8
Funk G-4343 (2X)	30.5	26.2	8.0
Super Crost S27 (2X)	30.5	24.6	7.5
Michigan 5443 (3X)	30.5	25.6	7.8
Gutwein 23 (2X)	30.3	24.0	7.3
DeKalb XL21 (2X)	30.3	27.2	8.2
Funk 26516 (3X)	30.3	27.6	8.4
Michigan 572-3X (3X)	30.2	25.8	7.8
Pioneer 3780 (2X)	30.2	25.5	7.7
Pride 3315 (2X)	29.9	21.7	6.5
Acco UC 1151 (2X)	29.6	22.2	6.6
Gutwein 40 (2X)	29.5	23.5	6.8
Pride 4404 (2X)	29.5	21.0	6.2
Cargill 863 (2X)	29.3	24.0	7.0
Security SS105 (2X)	29.2	28.1	8.2
Funk G-4444 (2X)	29.2	27.4	8.0
P.A.G. SX69 (2X)	29.2	27.7	8.1
Garno S-92 (2X)	28.9	26.4	7.6
Super Crost S25 (2X)	28.9	27.1	7.8
Michigan 575-2X (2X)	28.9	27.1	7.8
Northrup King PX50A (2X)	28.4	24.6	7.0
Garno WX91 (2X)	28.4	26.1	7.3
Migro M-1130 (2X)	28.2	26.8	7.6
Trojan TXS102 (2X)	28.2	25.9	7.3
Cardinal SX105 (2X)	28.0	26.3	7.4
Funk G-4321 (2X)	28.0	30.2	8.5
Michigan 5802 (2X)	27.9	29.4	8.2
P.A.G. SX67 (2X)	27.9	25.8	7.2
Jacques JX122A (2X)	27.9	27.7	7.7
P.A.G. SX210 (2X)	27.6	24.8	6.8
Super Crost 2890 (2X)	27.5	26.8	7.3
Acco UC 2901 (2X)	26.5	27.0	7.2
Super Crost 1901 (2X)	26.2	25.3	6.6
Migro M-1212 (2X)	25.0	26.8	6.7
Acco UC 3301 (2X)	24.9	28.9	7.2
Average	31.7	23.0	7.2
Range	24.9 to 42.0	14.7 to 30.2	5.3 to 8.5
Least significant difference	1.3	1.5	0.5

	1975
Planted	April 30
Harvested	Sept. 2
Soil Type	Parkhill loam
Previous Crop	Corn
Population	21,100
Rows	30"
Fertilizer	116-64-112
Soil Test: pH	7.3
P	84 (very high)
K	178 (medium)

Farm Cooperator: Charles Cork, Peck

County Extension Director: Rex Sieting, Sandusky

Table 13 NORTH CENTRAL MICHIGAN Zone 3

SAGINAW COUNTY TRIAL
One, Two, Three Year Averages—1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Michigan 280 (4X)	18.2	20	20	86.9	103	102	2.7	4	4
Payco SX 465 (2X)	18.8	—	—	88.3	—	—	3.1	—	—
Michigan 2833 (3X)	19.4	20	—	86.2	103	—	0.0	2	—
Michigan 2853 (3X)	19.5	20	—	94.1	107	—	0.0	1	—
Michigan 275-2X (2X)	20.1	21	21	101.5	109	106	0.8	3	5
Migro M-0101 (2X)	20.1	21	—	98.7	106	—	0.8	3	—
Cargill 830 (2X)	20.7	23	—	113.7	130	—	0.8	3	—
*Funk G-4195 (3X)	20.8	22	21	126.2	131	119	0.0	2	2
Pioneer 3958 (2X)	21.2	—	—	84.6	—	—	5.6	—	—
Michigan 3102 (2X)	21.7	23	—	124.9	134	—	0.0	1	—
Migro M-1020 (3X)	21.7	23	—	90.8	105	—	2.3	3	—
Blaney B 302 (2X)	22.3	23	22	86.7	107	108	3.1	2	1
Stewart 2914 (2X)	22.4	—	—	89.9	—	—	1.6	—	—
Pioneer 3965 (3X)	22.4	22	—	95.3	107	—	0.8	3	—
Gutwein 08 (2X)	22.4	24	—	96.4	108	—	1.6	1	—
Michigan 3093 (3X)	22.5	—	—	114.7	—	—	1.1	—	—
Michigan 333-3X (3X)	22.6	23	22	109.5	122	117	0.0	2	2
Stewart 2-3102 (2X)	22.8	23	—	113.8	128	—	0.0	0	—
Blaney B 401 (2X)	22.9	24	—	98.6	119	—	0.0	1	—
Super Crost 1692 (2X)	23.4	24	23	84.2	111	107	1.6	1	1
Blaney B 7305 (2X)	23.4	25	—	109.3	131	—	0.0	0	—
Funk G-4141 (2X)	23.5	—	—	99.9	—	—	0.0	—	—
Funk 26516 (3X)	23.8	—	—	111.1	—	—	0.0	—	—
Pioneer 3955 (3X)	23.9	—	—	86.4	—	—	0.8	—	—
Golden Harvest H-2290 (3X)	24.0	—	—	84.6	—	—	1.8	—	—

(Continued)

TABLE 13. (Continued)

Hybrid (Brand-Variety)	% Moisture 1975	2 Yrs.	3 Yrs.	Bushels per acre 1975	2 Yrs.	3 Yrs.	% Stalk lodging 1975	2 Yrs.	3 Yrs.
Michigan 396-3X (3X)	24.0	24	23	117.5	129	123	0.8	2	2
Acco U 334 (3X)	24.2	—	—	120.5	—	—	0.0	—	—
Wolverine W 166 (2X)	24.3	26	25	99.8	125	122	0.0	1	1
Funk G-4252 (3X)	24.3	24	23	115.9	128	117	0.0	2	4
DeKalb XL 12 (2X)	24.4	—	—	102.9	—	—	1.5	—	—
Northrup King PX 32 (2X)	24.4	25	—	110.8	129	—	1.5	2	—
Security SS 97 (2X)	24.7	—	—	97.3	—	—	0.0	—	—
Gutwein 10A (2X)	24.7	25	24	100.7	121	113	0.8	2	2
*Funk G-4343 (2X)	24.9	25	24	125.2	135	123	0.0	1	1
Garno WX 91 (2X)	24.9	25	—	118.2	123	—	1.6	2	—
Golden Harvest H-2355 (2X)	24.9	25	—	112.7	126	—	0.8	1	—
Muncy Chief H 401 (4X)	24.9	26	25	98.9	116	108	1.5	1	1
Muncy Chief H 304 (4X)	25.0	26	25	87.0	95	93	1.7	2	3
*Michigan 407-2X (2X)	25.0	25	24	125.5	136	131	0.8	0	2
Michigan 410-2X (2X)	25.0	25	24	118.4	131	125	0.8	2	2
Super Crost S 27 (2X)	25.1	27	26	111.0	135	129	0.7	0	1
Super Crost S 25 (2X)	25.1	26	24	121.6	117	115	0.0	2	1
Pioneer 3773 (2X)	25.1	27	25	116.4	131	125	0.8	2	1
Pride 4404 (2X)	25.1	25	—	107.8	126	—	0.7	2	—
*Michigan 4122 (2X)	25.2	25	—	136.3	138	—	0.0	0	—
O's Gold SX 1101 (2X)	25.2	—	—	112.2	—	—	0.7	—	—
*O's Gold SX 1100 (2X)	25.2	27	—	133.6	137	—	0.0	1	—
*Security SS 105 (2X)	25.2	—	—	131.4	—	—	1.4	—	—
*Pioneer 3780 (2X)	25.2	27	25	132.1	139	130	0.0	0	0
O's Gold SX 2145 (2X)	25.4	28	—	114.4	122	—	0.8	3	—
*Golden Harvest H-2420 (2X)	25.6	27	—	128.9	129	—	0.0	0	—
*Funk G-4321 (2X)	25.7	28	27	125.1	143	131	0.0	1	1
Migro M-1212 (2X)	25.8	27	25	109.6	132	127	1.5	1	2
Gutwein 40 (2X)	25.9	—	—	104.7	—	—	0.0	—	—
Payco SX 775 (2X)	25.9	27	—	111.7	131	—	0.0	0	—
*Michigan 5443 (3X)	25.9	—	—	125.9	—	—	0.0	—	—
Super Crost 1901 (2X)	26.2	26	—	110.5	114	—	0.0	1	—
Michigan 572-3X (3X)	26.2	27	25	119.5	135	128	0.8	2	2
Wolverine W 170	26.3	27	26	118.6	135	126	2.2	2	2
*Cardinal SX 112 (2X)	26.3	27	—	142.3	147	—	2.3	2	—
Muncy Chief SX 442 (2X)	26.3	—	—	98.6	—	—	0.8	—	—
*Northrup King PX 48 (2X)	26.5	28	—	136.0	150	—	0.7	2	—
*Michigan 575-2X (2X)	26.6	29	28	129.2	145	138	0.8	0	0
Trojan TXS 102 (2X)	27.0	29	28	123.1	143	135	0.0	0	1
*Michigan 5802 (2X)	27.0	29	—	141.2	147	—	2.4	1	—
*Migro M-1130 (2X)	27.1	28	27	132.1	138	127	0.0	3	2
Super Crost 2772 (2X)	27.1	29	—	116.7	139	—	1.5	1	—
Cardinal SX 105 (2X)	27.2	28	—	115.0	135	—	0.8	2	—
Northrup King PX 529 (3X)	27.2	27	—	111.5	131	—	0.7	2	—
*Gutwein 23 (2X)	27.3	—	—	126.3	—	—	0.0	—	—
DeKalb XL 45A (2X)	27.3	28	—	116.9	135	—	0.8	1	—
Pride 5525 (2X)	27.4	—	—	123.1	—	—	0.0	—	—
Northrup King PX 46 (2X)	27.5	—	—	110.1	—	—	0.0	—	—
Northrup King PX 50A (2X)	27.7	30	28	117.8	131	127	0.0	0	1
*DeKalb XL 42 (2X)	27.7	29	—	131.6	138	—	0.0	2	—
Funk G-4444 (2X)	27.7	28	27	118.4	131	126	0.8	1	1
*Acco UC 3301 (2X)	27.8	29	28	125.6	145	138	0.0	0	1
Muncy Chief SX 550 (2X)	27.8	31	30	105.9	116	107	0.8	0	1
*Pioneer 3518 (Sp.)	28.1	30	—	125.2	127	—	0.0	0	—
*Blaney B 606 (2X)	28.2	31	—	140.1	148	—	0.0	0	—
Trojan TXS 105A (2X)	28.4	—	—	113.2	—	—	0.0	—	—
Golden Harvest H-2450 (2X)	28.5	28	—	118.0	136	—	0.0	0	—
Golden Harvest H-2400 (3X)	29.0	—	—	113.1	—	—	0.0	—	—
DeKalb XL 43A (2X)	29.1	32	—	119.7	132	—	0.0	1	—
*Super Crost 2890 (2X)	29.2	30	—	132.6	147	—	0.0	0	—
*Wolverine W 174 (2X)	29.3	31	—	129.6	137	—	0.0	1	—
DeKalb XL 44 (2X)	30.1	30	29	117.0	127	122	0.8	1	1
Average	25.0	26	30	113.0	127	138	0.7	1	2
Range	18.2 to 30.2	20 to 32	20 to 30	84.2 to 142.3	95 to 148	93 to 150	0.0 to 5.6	0 to 4	0 to 5
Least significant difference	1.2	0.9	0.6	12.1	7	5			

*Significantly better than average yield in 1975.

	1975	1974	1973
Planted	May 2	April 26	May 14
Harvested	Oct. 17	Oct. 21	Oct. 27
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Corn	Sugar Beets	Corn
Population	19,900	20,800	20,300
Rows	30"	30"	30"
Fertilizer	90-78-39	161-144-108	169-96-48
Soil Type: pH	7.2	7.5	7.6
P	68 (very high)	152 (very high)	70 (very high)
K	268 (high)	612 (very high)	348 (very high)

Farm Cooperators: Walter Reinbold & Sons, Reese

County Extension Director: Ray Vasold, Saginaw

Table 14 NORTH CENTRAL MICHIGAN Zone 3
HURON COUNTY TRIAL—GRAIN
One, Two, Three Year Averages—1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	2 Yrs.	3 Yrs.	Bushels per acre 1975	2 Yrs.	3 Yrs.	% Stalk lodging 1975	2 Yrs.	3 Yrs.
Northrup King PX418 (3X)	17.1	—	—	91.8	—	—	2.3	—	—
Michigan 275-2X (2X)	17.6	21	20	92.7	104	105	1.5	5	5
Michigan 2833 (3X)	18.0	20	20	89.5	102	104	0.0	2	3
Michigan 2853 (3X)	18.1	20	—	104.7	110	—	2.3	2	—
Wil-Star RV32 (2X)	18.1	—	—	104.5	—	—	9.5	—	—
Northrup King PX20 (2X)	18.4	21	21	109.0	115	113	0.7	1	1
Michigan 280 (4X)	18.5	21	20	102.9	111	108	2.3	4	4
Pride 2264 (3X)	18.7	—	—	94.5	—	—	0.8	—	—
Migro M-0101 (2X)	18.8	22	—	96.1	113	—	0.0	0	—
Cargill 830 (2X)	19.1	—	—	98.4	—	—	2.8	—	—
Michigan 333-3X (3X)	19.1	21	21	114.7	122	119	0.0	0	2
Jacques JX92 (2X)	19.1	—	—	120.5	—	—	0.0	—	—
Garno S-75X (2X)	19.8	—	—	87.3	—	—	0.8	—	—
Super Crost 1692 (2X)	19.8	23	22	112.6	123	113	0.0	0	1
Trojan TXS85 (2X)	20.0	—	—	105.8	—	—	0.7	—	—
Blaney B302 (2X)	20.0	23	—	114.4	117	—	0.7	1	—
Michigan 3093 (3X)	20.1	—	—	127.9	—	—	1.5	—	—
Wil-Star RV38 (2X)	20.1	—	—	105.4	—	—	1.5	—	—
Garno S-85X (2X)	20.2	23	22	123.8	118	113	1.4	3	4
Funk G-4040 (2X)	20.4	—	—	100.8	—	—	2.2	—	—
Funk G-4195 (3X)	20.5	23	22	125.2	117	109	0.7	0	1
Funk G-4141 (2X)	20.5	—	—	129.9	—	—	0.0	—	—
Michigan 3102 (2X)	20.6	23	—	131.6	133	—	0.0	0	—
Stewart 2914 (2X)	21.3	—	—	108.1	—	—	2.2	—	—
Pioneer 3965 (3X)	21.3	23	—	111.1	107	—	0.0	2	—
Trojan TX100 (3X)	21.3	26	25	131.3	128	123	1.4	1	1
Stewart 2-3001 (2X)	21.5	—	—	116.0	—	—	0.7	—	—
Trojan TXS99 (2X)	21.7	—	—	125.6	—	—	0.0	—	—
Michigan 396-3X (3X)	21.7	24	23	122.2	131	128	0.0	0	1
Migro M-1020 (3X)	21.8	25	—	122.1	115	—	0.8	2	—
Trojan TXS94 (2X)	21.9	—	—	130.8	—	—	0.0	—	—
DeKalb XL12 (2X)	21.9	24	23	106.4	116	111	0.7	2	2
Pioneer 3784 (2X)	22.0	26	25	121.8	125	125	0.7	1	1
Golden Harvest H-2355 (2X)	22.0	24	—	125.2	123	—	0.0	0	—
Stewart 2-3102 (2X)	22.0	24	—	129.4	129	—	2.2	0	—
Wolverine W128 (2X)	22.0	24	—	131.4	122	—	0.7	1	—
P.A.G. SX177 (2X)	22.1	—	—	110.5	—	—	2.2	—	—
Security SS97 (2X)	22.1	—	—	137.7	—	—	0.0	—	—
P.A.G. SX67 (2X)	22.2	25	24	130.2	122	121	0.0	0	1
Golden Harvest H-2290 (3X)	22.2	—	—	95.3	—	—	4.0	—	—
Gutwein 08 (2X)	22.4	23	23	112.3	114	110	1.5	1	1
Pride 3315 (2X)	22.5	—	—	98.2	—	—	0.8	—	—
Funk G-4252 (3X)	22.7	25	24	121.6	127	119	0.7	1	3
Gutwein 10A (2X)	22.7	26	25	137.9	129	115	0.0	0	1
*Michigan 407-2X (2X)	23.0	25	24	147.2	144	138	3.5	3	4
Blaney 7305 (2X)	23.1	27	—	133.1	139	—	2.3	2	—
Acco UC 2301 (2X)	23.2	—	—	119.1	—	—	0.7	—	—
*Michigan 410-2X (2X)	23.2	26	25	140.8	143	137	0.0	2	1
*Funk 26516 (3X)	23.2	—	—	147.2	—	—	0.7	—	—
Super Crost S25 (2X)	23.3	28	26	129.4	127	129	0.7	1	1
*Northrup King PX32 (2X)	23.4	26	—	143.6	146	—	0.0	1	—
Golden Harvest H-2420 (2X)	23.5	28	—	108.5	114	—	0.0	1	—
*Michigan 4122 (2X)	23.6	—	—	151.4	—	—	0.0	—	—
*Wolverine W166 (2X)	23.6	27	—	142.4	138	—	0.0	0	—
Blaney B401 (2X)	23.7	25	—	118.0	124	—	2.2	2	—

(Continued)

TABLE 14. (Continued)

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Funk G-4288 (3X)	23.8	26	25	136.1	138	131	0.7	1	1
*Cardinal SX105 (2X)	24.0	28	—	148.5	148	—	0.0	0	—
*Funk G-4321 (2X)	24.1	27	27	148.5	150	144	0.0	0	0
*Gutwein 40 (2X)	24.1	—	—	150.6	—	—	2.2	—	—
*Super Crost 1901 (2X)	24.2	28	—	147.2	137	—	0.0	0	—
Wil-Star RV43 (2X)	24.2	—	—	138.1	—	—	0.0	—	—
*Michigan 5443 (3X)	24.2	—	—	144.5	—	—	1.5	—	—
Northrup King PX 529 (3X)	24.3	27	—	112.4	121	—	5.2	4	—
Migro M-1212 (2X)	24.3	28	26	126.0	126	127	2.2	1	3
Michigan 572-3X (3X)	24.3	27	26	137.0	144	140	1.5	1	1
Funk G-4343 (2X)	24.4	27	26	126.2	126	118	0.7	0	1
*Jacques JX122A (2X)	24.5	27	26	140.1	146	140	0.7	1	1
Blaney 6616 (3X)	24.5	27	—	135.2	143	—	0.7	2	—
Garno S-92 (2X)	24.7	28	27	122.6	132	122	0.8	0	1
Northrup King PX 46 (2X)	24.7	—	—	125.9	—	—	1.5	—	—
*DeKalb XL22B (Sp.)	24.7	—	—	139.9	—	—	0.0	—	—
Trojan TXS102 (2X)	24.9	—	—	136.2	—	—	0.7	—	—
*Funk G-4444 (2X)	24.9	30	28	138.9	138	138	0.0	1	2
*Golden Harvest H-2450 (2X)	25.0	28	—	145.7	149	—	0.7	3	—
Pride 4404 (2X)	25.0	27	—	122.7	125	—	0.8	1	—
P.A.G. SX210 (2X)	25.2	—	—	105.3	—	—	2.2	—	—
*Pioneer 3780 (2X)	25.4	28	27	142.8	143	134	0.0	0	0
*Northrup King PX 48 (2X)	25.5	29	—	138.7	140	—	0.7	0	—
Blaney B606 (2X)	25.5	29	—	133.4	130	—	0.8	0	—
Cargill 863 (2X)	25.7	—	—	122.6	—	—	0.0	—	—
Michigan 575-2X (2X)	25.7	29	—	138.1	146	—	0.0	0	—
*Migro M-1130 (2X)	25.7	29	28	150.7	141	135	0.7	2	1
Super Crost S27 (2X)	26.1	29	28	135.9	142	135	0.7	1	2
DeKalb XL42 (2X)	26.1	—	—	129.0	—	—	8.4	—	—
P.A.G. SX69 (2X)	26.1	29	28	125.2	130	121	0.7	1	1
O's Gold SX1100 (2X)	26.2	29	—	117.2	130	—	0.0	0	—
Security SS105 (2X)	26.5	—	—	124.4	—	—	1.5	—	—
*Michigan 5802 (2X)	26.5	—	—	149.9	—	—	0.0	—	—
Lowe LMS201 (Sp.)	26.5	—	—	128.0	—	—	0.0	—	—
Wil-Star RV55 (2X)	26.6	—	—	151.8	—	—	0.0	—	—
Acco UC 3301 (2X)	26.6	29	—	129.6	143	—	0.0	0	—
Pioneer 3535 (2X)	26.8	—	—	132.5	—	—	0.0	—	—
*Wolverine W174 (2X)	26.9	30	—	151.8	143	—	0.0	0	—
*Acco UC 3201 (2X)	27.8	30	29	142.8	143	134	0.7	1	2
*Pioneer 3518 (Sp.)	28.4	30	—	139.1	143	—	0.0	0	—
Golden Harvest H-2500 (2X)	30.5	34	—	131.0	135	—	0.0	0	—
Average	23.0	26	25	125.4	130	122	1.0	1	0.2
Range	17.1 to 30.5	20 to 34	20 to 29	87.3 to 151.8	102 to 150	104 to 143	0.0 to 8.4	0 to 5	0 to 1
Least significant difference	1.0	0.7	0.7	13.1	8	5			

*Significantly better than average yield in 1975.

	1975	1974	1973
Planted	April 30	April 25	May 16
Harvested	Oct. 14	Oct. 17	Oct. 24
Soil Type	Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop	Corn	Corn	Corn
Population	19,900	19,700	19,900
Rows	30"	30"	30"
Fertilizer	157-82-132	157-82-192	198-115-120
Soil Test: pH	7.0	7.3	7.0
P	45 (very high)	37 (high)	74 (very high)
K	194 (high)	215 (high)	472 (very high)

Farm Cooperator: William McCrea, Bad Axe

Extension Livestock Agent: Lee Warschefsky, Bad Axe

Table 15 **NORTH CENTRAL MICHIGAN** Zone 3

HURON COUNTY TRIAL—SILAGE

One, Two, Three Year Averages—

1975, 1974, 1973

Hybrid (Brand-Variety)	% Dry Matter 1975	% Dry Matter 2 Yrs.	% Dry Matter 3 Yrs.	Tons per Acre Green Weight 1975	Green Weight 2 Yrs.	Green Weight 3 Yrs.	Dry Weight 1975	Dry Weight 2 Yrs.	Dry Weight 3 Yrs.
Michigan 275-2X (2X)	52.9	52.9	52.3	10.1	10.4	11.1	5.3	5.5	5.8
Michigan 2853 (3X)	52.5	48.7	—	11.1	11.9	—	5.8	5.8	—
Michigan 280 (4X)	52.1	49.6	50.4	11.5	12.5	12.7	6.0	6.2	6.4
Michigan 2833 (3X)	51.6	48.8	49.6	10.9	12.1	12.5	5.6	5.9	6.2
Trojan TXS85 (2X)	51.0	—	—	11.3	—	—	5.7	—	—
Funk G-4040 (2X)	49.8	—	—	12.1	—	—	6.0	—	—
Jacques JX92 (2X)	49.5	—	—	12.3	—	—	6.1	—	—
Garno S-75X (2X)	49.5	—	—	9.5	—	—	4.7	—	—
Michigan 333-3X (3X)	48.5	47.0	—	12.2	13.2	—	5.9	6.2	—
Michigan 3093 (3X)	47.5	—	—	12.6	—	—	6.0	—	—
Cargill 830 (2X)	46.7	—	—	11.9	—	—	5.5	—	—
Trojan TXS94 (2X)	46.5	—	—	12.5	—	—	5.8	—	—
Northrup King PX418 (3X)	45.8	—	—	11.1	—	—	5.1	—	—
Wolverine W128 (2X)	45.5	44.7	—	13.1	13.2	—	5.9	5.9	—
Golden Harvest H-2290 (3X)	44.9	—	—	12.2	—	—	5.5	—	—
Pioneer 3965 (3X)	44.7	48.8	—	13.3	12.3	—	5.9	6.0	—
Michigan 3102 (2X)	44.6	43.4	—	13.2	14.5	—	5.9	6.3	—
Migro M-0101 (2X)	44.5	47.6	—	13.2	12.6	—	5.9	6.0	—
Northrup King PX20 (2X)	44.2	45.6	49.2	13.7	13.6	13.0	6.0	6.2	6.4
Pride 2264 (3X)	43.3	—	—	11.3	—	—	4.9	—	—
Garno S-85X (2X)	43.1	43.8	46.7	14.2	14.4	13.5	6.1	6.3	6.3
Wil-Star RV38 (2X)	43.1	—	—	13.5	—	—	5.8	—	—
Blaney B302 (2X)	42.9	44.9	—	11.7	11.8	—	5.0	5.3	—
Stewart 2-3001 (2X)	42.7	43.8	—	13.8	14.4	—	5.9	6.3	—
Wil-Star RV32 (2X)	42.5	—	—	14.0	—	—	6.0	—	—
Security SS97 (2X)	42.3	—	—	13.0	—	—	5.5	—	—
DeKalb XL12 (2X)	42.3	45.5	47.5	11.9	12.1	12.2	5.0	5.5	5.8
Migro M-1020 (3X)	42.0	42.8	—	14.8	14.5	—	6.2	6.2	—
Pioneer 3784 (2X)	41.8	43.5	45.7	15.2	13.8	13.6	6.3	6.0	6.3
Michigan 396-3X (3X)	41.7	42.9	44.4	14.6	15.4	15.1	6.1	6.6	6.7
Funk G-4195 (3X)	41.5	44.3	46.0	14.5	14.0	13.7	6.0	6.2	6.3
Stewart 2-3102 (2X)	41.4	—	—	13.8	—	—	5.7	—	—
Super Crost 1692 (2X)	41.3	44.8	46.3	13.7	14.3	13.6	5.6	6.4	6.3
Gutwein 08 (2X)	41.0	42.9	45.7	13.2	13.3	12.7	5.4	5.7	5.8
Stewart 2914 (2X)	40.9	—	—	13.7	—	—	5.6	—	—
Funk 26516 (3X)	40.3	—	—	16.1	—	—	6.5	—	—
Funk G-4141 (2X)	39.8	—	—	15.7	—	—	6.2	—	—
Funk G-4252 (3X)	39.8	38.4	41.6	15.7	16.4	14.9	6.2	6.3	6.2
Blaney B401 (2X)	39.5	41.0	—	16.1	16.1	—	6.4	6.6	—
Golden Harvest H-2355 (2X)	39.1	40.5	—	13.7	14.8	—	5.3	6.0	—
Northrup King PX529 (3X)	38.9	38.5	—	14.0	14.8	—	5.4	5.7	—
Blaney 7305 (2X)	38.9	41.3	—	14.1	15.0	—	5.5	6.2	—
Trojan TX100 (3X)	38.9	40.5	42.8	16.2	15.3	15.2	6.3	6.2	6.5
Funk G-4288 (3X)	38.9	40.6	42.6	17.1	17.5	16.2	7.0	7.1	6.9
Northrup King PX32 (2X)	38.6	39.3	—	15.5	17.3	—	6.0	6.8	—
Pride 3315 (2X)	38.6	—	—	13.7	—	—	5.3	—	—
Michigan 407-2X (2X)	38.6	40.9	43.6	16.8	17.1	16.3	6.5	7.0	7.1
Acco UC 2301 (2X)	38.1	—	—	17.2	—	—	6.5	—	—
Trojan TXS99 (2X)	38.1	—	—	14.4	—	—	5.5	—	—
Wolverine W166 (2X)	38.0	40.5	—	15.7	15.3	—	6.0	6.2	—
Lowe LMS201 (Sp.)	37.7	—	—	17.2	—	—	6.5	—	—
Michigan 410-2X (2X)	37.7	39.1	40.6	17.9	18.4	17.5	6.7	7.2	7.1
Funk G-4321 (2X)	37.6	36.8	39.5	17.7	17.4	17.2	6.6	6.4	6.8
Gutwein 10A (2X)	37.6	38.8	41.9	17.0	16.5	16.0	6.4	6.4	6.7
Funk G-4343 (2X)	37.6	41.3	43.9	17.8	17.2	15.7	6.7	7.1	6.9
Wil-Star RV43 (2X)	37.3	—	—	18.3	—	—	6.8	—	—
Security SS105 (2X)	37.3	—	—	16.3	—	—	6.1	—	—
Northrup King PX46 (2X)	37.1	—	—	15.4	—	—	5.7	—	—
Pride 4404 (2X)	37.0	38.9	—	18.0	16.7	—	6.7	6.5	—
Cardinal SX105 (2X)	36.9	37.3	—	16.0	17.7	—	5.9	6.6	—
Northrup King PX 48 (2X)	36.8	39.2	—	16.4	16.6	—	6.0	6.5	—
Golden Harvest H-2420 (2X)	36.7	38.4	—	16.5	17.7	—	6.0	6.8	—
Michigan 4122 (2X)	36.7	—	—	18.3	—	—	6.7	—	—
Michigan 572-3X (3X)	36.6	38.5	40.8	16.0	16.9	16.9	5.9	6.5	6.9
Cargill 863 (2X)	36.6	—	—	17.8	—	—	6.5	—	—
Acco UC 3201 (2X)	36.5	38.8	40.9	18.0	17.0	15.9	6.6	6.6	6.5
Pioneer 3780 (2X)	36.2	38.7	40.6	18.5	18.1	17.0	6.7	7.0	6.9
Jacques JX122A (2X)	36.2	38.0	40.4	17.8	18.7	17.8	6.5	7.1	7.2
Michigan 5443 (3X)	36.2	—	—	18.0	—	—	6.5	—	—
O's Gold SX1100 (2X)	36.2	39.6	—	16.6	15.9	—	6.0	6.3	—
Super Crost S27 (2X)	36.2	38.4	41.7	17.4	17.2	15.6	6.3	6.6	6.5
DeKalb XL22B (2X)	36.2	—	—	19.3	—	—	7.0	—	—
Trojan TXS102 (2X)	36.2	—	—	18.0	—	—	6.5	—	—
Super Crost S25 (2X)	35.9	37.0	39.3	17.3	17.2	17.3	6.2	6.4	6.8
Gutwein 40 (2X)	35.8	—	—	19.0	—	—	6.8	—	—

(Continued)

TABLE 15. (Continued)

Hybrid (Brand-Variety)	% Dry Matter 1975	% Dry Matter 2 Yrs.	% Dry Matter 3 Yrs.	Tons per Acre Green Weight 1975	Tons per Acre Green Weight 2 Yrs.	Tons per Acre Green Weight 3 Yrs.	Tons per Acre Dry Weight 1975	Tons per Acre Dry Weight 2 Yrs.	Tons per Acre Dry Weight 3 Yrs.
Funk G-4444 (2X)	35.8	37.1	40.7	17.3	17.5	17.2	6.2	6.5	7.0
Garno S-92 (2X)	35.7	37.2	39.3	18.5	19.1	18.3	6.6	7.1	7.2
Michigan 575-2X (2X)	35.5	37.0	—	18.3	18.1	—	6.5	6.7	—
Blaney 6616 (3X)	35.0	37.4	—	18.5	18.2	—	6.5	6.8	—
P.A.G. SX69 (2X)	34.9	37.4	39.2	17.2	17.1	15.8	6.0	6.4	6.2
Pioneer 3518 (Sp.)	34.8	36.2	—	19.3	18.5	—	6.7	6.7	—
Super Crost 1901 (2X)	34.4	37.4	—	16.7	18.2	—	5.8	6.8	—
DeKalb XL42 (2X)	34.4	—	—	18.3	—	—	6.3	—	—
P.A.G. SX67 (2X)	34.4	38.0	41.1	15.9	16.3	15.8	5.5	6.2	6.5
Wolverine W174 (2X)	34.3	41.1	—	20.0	18.6	—	6.9	6.6	—
Michigan 5802 (2X)	34.3	—	—	20.4	—	—	7.0	—	—
Acco UC 3301 (2X)	34.0	36.5	—	20.9	19.2	—	7.1	7.0	—
P.A.G. SX177 (2X)	33.8	—	—	16.3	—	—	5.5	—	—
Blaney B606 (2X)	33.8	35.3	—	17.4	17.3	—	5.9	6.1	—
P.A.G. SX210 (2X)	33.7	—	—	15.3	—	—	5.2	—	—
Migro M-1212 (2X)	32.6	35.2	38.4	16.8	17.9	17.7	5.5	6.3	6.7
Wil-Star RV55 (2X)	32.3	—	—	18.8	—	—	6.1	—	—
Pioneer 3535 (2X)	32.1	—	—	19.1	—	—	6.1	—	—
Golden Harvest H-2450 (2X)	30.3	36.5	—	17.0	17.0	—	5.1	6.2	—
Golden Harvest H-2500 (2X)	28.8	31.3	—	21.2	21.1	—	6.1	6.6	—
Migro M-1130	28.4	34.6	37.2	18.1	18.2	17.2	5.1	6.3	6.4
Average	39.5	39.6	42.5	15.6	15.9	15.3	6.1	6.3	6.5
Range	28.4 to 52.9	31.3 to 52.9	37.2 to 52.3	9.5 to 21.2	10.4 to 21.1	11.1 to 18.3	4.7 to 7.1	5.3 to 7.2	5.8 to 7.2
Least significant difference	1.6	1.0	0.8	1.5	0.9	0.6	0.5	0.4	0.3

		1975	1974	1973
Planted		April 30	April 25	May 16
Harvested		Sept. 2	Sept. 17	Sept. 11
Soil Type		Brookston clay loam	Brookston clay loam	Brookston clay loam
Previous Crop		Corn	Corn	Corn
Population		20,000	19,700	19,900
Rows		30"	30"	30"
Fertilizer		157-82-132	157-82-192	198-115-120
Soil Test:	pH	7.0	7.3	7.0
	P	45 (very high)	37 (high)	74 (very high)
	K	194 (high)	215 (high)	472 (very high)

Farm Cooperator: William McCrea, Bad Axe

Extension Livestock Agent: Lee Warschefsky, Bad Axe

Table 16 **NORTH CENTRAL MICHIGAN** Zone 3
MONTCALM COUNTY TRIAL—IRRIGATED VS. NOT IRRIGATED
One, Two, Three Year Averages—1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per Acre 1975 Irrig	Bushels per Acre 1975 Not Irrig	Bushels per Acre 2 years Irrig	Bushels per Acre 2 years Not Irrig	Bushels per Acre 3 years Irrig	Bushels per Acre 3 years Not Irrig	% Stalk lodging 1975 Irrig	% Stalk lodging 1975 Not Irrig	% Stalk lodging 2 years Irrig	% Stalk lodging 2 years Not Irrig	% Stalk lodging 3 years Irrig	% Stalk lodging 3 years Not Irrig
Michigan 275-2X (2X)	21.8	25	24	133.8	101.0	122	104	116	101	10.4	10.6	6	5	6	6
DeKalb XL311 (3X)	21.8	26	24	106.3	80.4	104	83	104	85	5.2	2.3	3	1	3	2
Michigan 280 (4X)	21.8	25	24	122.8	91.5	119	97	113	97	10.2	9.8	6	7	5	6
Michigan 2853 (3X)	21.9	25	—	129.0	100.4	126	104	—	—	5.8	6.8	4	4	—	—
Funk G-4195 (3X)	22.0	28	26	133.2	109.1	122	108	115	101	7.2	3.8	4	2	3	4
Michigan 2833 (3X)	22.1	25	24	123.4	100.7	118	102	116	102	8.8	5.7	5	3	5	4
DeKalb XL12 (2X)	22.3	29	28	124.2	102.8	120	104	115	101	16.8	18.7	8	9	7	7
Migro M-1020 (2X)	22.5	28	—	139.8	113.5	128	108	—	—	2.3	3.9	1	3	—	—
Wolverine W128 (2X)	22.7	25	25	122.2	100.6	114	100	111	95	4.7	0.0	5	2	3	2
Migro M-010 (2X)	22.7	26	—	140.7	109.6	126	104	—	—	4.6	3.5	2	3	—	—
Super Crost 1692 (2X)	22.8	27	26	130.7	104.2	125	108	119	102	2.4	4.7	1	3	2	3
Michigan 333-3X (3X)	22.9	26	25	144.5	114.8	134	115	128	112	2.3	8.1	2	4	3	3
Super Crost 1610 (2X)	23.1	25	—	136.0	107.6	122	106	—	—	2.9	0.8	1	1	—	—
Asgrow 2222 (2X)	23.2	—	—	129.4	106.9	—	—	—	—	0.8	1.6	—	—	—	—
Northrup King PX20 (2X)	23.2	26	—	135.3	111.4	122	106	—	—	7.6	4.4	4	2	—	—
Blaney B302 (2X)	23.2	27	—	142.1	114.7	131	113	—	—	0.7	3.1	0	3	—	—
Pioneer 3955 (3X)	23.3	—	—	147.1	124.6	—	—	—	—	4.7	0.8	—	—	—	—
Michigan 3093 (3X)	23.5	—	—	158.0	125.7	—	—	—	—	3.1	1.5	—	—	—	—
Blaney B401 (2X)	23.5	—	—	157.1	130.3	—	—	—	—	5.8	2.2	—	—	—	—
Pioneer 3965 (3X)	23.5	25	—	137.0	115.3	121	108	—	—	1.5	0.8	1	0	—	—
Funk G-4141 (2X)	23.6	—	—	156.0	114.5	—	—	—	—	1.6	0.0	—	—	—	—
Funk G-4252 (3X)	23.7	29	28	143.5	113.1	132	108	117	100	5.6	2.1	3	1	3	2
Pioneer 3958 (2X)	23.9	28	27	160.0	127.5	136	113	123	106	0.7	3.1	0	2	1	2
Asgrow RX42 (2X)	24.0	28	26	142.9	130.5	131	118	127	114	0.0	0.0	0	0	1	1
DeKalb XL15A (2X)	24.1	30	28	130.3	105.2	117	103	112	100	12.0	13.7	6	7	5	5
Michigan 3102 (2X)	24.3	29	—	157.3	131.1	141	124	—	—	3.5	2.4	2	1	—	—
Acco UC 2301 (2X)	24.6	29	28	158.7	132.7	138	119	133	115	7.4	17.1	4	9	5	6
Blaney B442 (3X)	24.7	—	—	128.4	113.3	—	—	—	—	6.9	5.8	—	—	—	—
Michigan 396-3X (3X)	25.2	30	28	160.6	128.3	144	122	139	118	0.0	0.8	0	0	1	1
Funk G-4343 (2X)	25.3	31	29	164.2	135.1	133	109	126	107	6.9	7.1	3	4	3	3
Blaney 7305 (2X)	25.3	30	—	156.5	133.2	132	119	—	—	2.1	5.1	1	3	—	—
Cowbell 7300 (2X)	25.6	31	30	144.8	122.3	123	106	120	104	7.9	6.1	4	3	5	3
Michigan 410-2X (2X)	25.9	31	29	157.6	132.9	145	123	141	119	5.5	4.9	3	3	3	4
Northrup King PX32 (2X)[1] [2]	26.1	30	—	168.2	135.6	143	121	—	—	4.4	5.3	2	3	—	—
Pioneer 3785 (2X)	26.2	32	—	146.0	123.7	129	113	—	—	0.0	0.8	0	0	—	—

(Continued)

TABLE 16. (Continued)

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per Acre 1975 Irrig	Bushels per Acre 1975 Not Irrig	Bushels per Acre 2 years Irrig	Bushels per Acre 2 years Not Irrig	Bushels per Acre 3 years Irrig	Bushels per Acre 3 years Not Irrig	% Stalk lodging 1975 Irrig	% Stalk lodging 1975 Not Irrig	% Stalk lodging 2 years Irrig	% Stalk lodging 2 years Not Irrig	% Stalk lodging 3 years Irrig	% Stalk lodging 3 years Not Irrig
Blaney B443 (3X)	26.3	—	—	155.1	121.4	—	—	—	—	4.7	0.8	—	—	—	—
Michigan 4122 (2X)[1] [2]	26.3	—	—	179.3	140.4	—	—	—	—	0.8	0.0	—	—	—	—
Acco DC231 (4X)	26.3	32	30	139.7	113.7	116	101	107	96	11.0	7.6	6	5	7	4
Cowbell 102 (2X)	26.3	—	—	129.0	107.2	—	—	—	—	4.9	10.2	—	—	—	—
Pride R290 (2X)	26.5	32	30	157.4	133.7	145	124	133	114	7.9	6.8	4	4	4	4
Funk G-L2384 (Sp.)	26.5	—	—	140.9	112.4	—	—	—	—	14.1	14.7	—	—	—	—
Michigan 407-2X (2X)[1] [2]	26.6	31	29	168.6	137.5	151	130	145	126	3.5	0.0	2	1	3	2
Migro M-1212 (2X)	26.7	33	31	153.7	127.7	132	116	130	117	1.5	3.6	2	2	2	1
Funk G-4288 (3X)	26.7	32	30	155.4	132.5	136	121	134	118	10.3	11.3	5	6	5	4
Funk 26516 (3X)[1] [2]	26.8	—	—	168.5	136.3	—	—	—	—	1.4	1.5	—	—	—	—
Michigan 572-3X (3X)	26.8	33	31	156.4	128.1	139	122	137	120	7.1	5.7	4	3	3	3
Blaney B606 (2X)[1] [2]	26.8	33	—	176.8	143.5	143	123	—	—	3.6	3.6	2	2	—	—
Acco U 334 (3X)	27.0	—	—	167.0	123.7	—	—	—	—	12.1	5.1	—	—	—	—
Michigan 5443 (3X)	27.1	—	—	167.7	131.7	—	—	—	—	3.6	5.4	—	—	—	—
Pride 4404 (2X)	27.1	—	—	169.7	129.7	—	—	—	—	0.8	1.5	—	—	—	—
Asgrow RX53 (2X)[1] [2]	27.2	30	28	169.3	138.3	146	126	141	124	0.0	0.8	0	0	0	1
Northrup King PX529 (3X)[2]	27.3	33	—	165.6	138.7	136	124	—	—	5.6	7.5	3	4	—	—
Wolverine W166 (2X)[1] [2]	27.3	—	—	179.3	137.8	—	—	—	—	5.6	8.6	—	—	—	—
Cowbell 4100 (2X)	27.6	33	—	140.4	111.4	126	106	—	—	7.2	3.8	4	2	—	—
Funk G-4321 (2X)[1] [2]	27.7	33	31	181.1	148.7	157	132	146	126	2.3	0.7	1	0	3	1
Super Crost 1901 (2X)	28.1	33	—	155.5	118.8	145	119	—	—	1.7	1.6	1	1	—	—
Cardinal SX105 (2X)	28.2	32	—	166.1	134.7	144	121	—	—	3.1	3.6	3	2	—	—
Super Crost S25 (2X)	28.2	33	30	145.8	114.6	130	110	126	108	0.7	1.6	0	1	1	1
Funk G-4444 (2X)	28.7	33	32	166.4	135.0	148	128	143	124	3.8	2.8	2	2	3	2
Asgrow RX64 (2X)	28.7	33	—	153.8	133.1	136	123	—	—	3.0	6.2	2	3	—	—
Pioneer 3780 (2X)	28.8	33	31	166.5	132.6	142	121	137	118	3.8	3.7	2	2	3	2
Northrup King PX46 (2X)	28.8	—	—	154.0	131.7	—	—	—	—	2.2	0.8	—	—	—	—
Super Crost S27 (2X)[2]	28.8	33	31	160.1	140.5	133	113	133	115	2.2	6.5	1	3	2	3
Funk G-4366 (3X)	28.9	34	32	170.2	131.8	138	115	137	117	1.5	6.0	1	3	2	3
Michigan 575-2X (2X)	28.9	34	—	167.4	135.2	148	126	—	—	4.6	4.5	2	2	—	—
Funk G-WX302 (Sp.)	29.4	35	—	158.8	122.3	136	115	—	—	8.8	15.5	5	8	—	—
Cowbell 7440 (2X)	29.7	34	—	167.4	125.9	148	122	—	—	0.7	0.0	1	1	—	—
Security SS105 (2X)[1] [2]	29.8	—	—	173.1	145.7	—	—	—	—	0.7	5.9	—	—	—	—
Michigan 5802 (2X)[1] [2]	29.8	—	—	187.6	151.3	—	—	—	—	0.0	1.4	—	—	—	—
Migro M-1130 (2X)[1] [2]	30.2	35	33	170.3	138.8	149	123	142	120	4.9	4.9	2	2	2	3
Pioneer 3716 (3X)[1] [2]	30.3	—	—	172.7	137.4	—	—	—	—	4.5	2.1	—	—	—	—
P.A.G. SX69 (2X)[1] [2]	31.5	35	33	169.9	141.6	138	122	138	120	3.5	2.8	2	2	2	3
Acco UC 3301 (2X)[1] [2]	31.5	35	33	206.5	157.0	163	131	155	127	1.4	1.4	1	1	3	4
Pioneer 3535 (2X)[1] [2]	31.6	—	—	200.8	157.2	—	—	—	—	2.3	0.8	—	—	—	—
Cowbell 7480 (2X)	32.0	36	—	147.4	124.1	132	119	—	—	7.0	7.8	4	4	—	—
Average	26.1	30	29	153.9	124.6	134	115	128	111	4.5	4.6	3	3	3	3
Range	21.8 to 32.0	25 to 36	24 to 33	106.3 to 206.5	80.4 to 157.2	104 to 163	83 to 132	104 to 155	85 to 127	0.0 to 16.8	0.0 to 18.7	0 to 8	0 to 9	0 to 7	1 to 7
Least significant difference	1.2	0.9	0.7	14.2	10.9	8	7	5	5						

[1] Significantly better than average yield, irrigated 1975.
[2] Significantly better than average yield, not irrigated 1975.

	1975	1974	1973
Planted	May 7	May 4	May 8
Harvested	Oct. 15	Oct. 26	Oct. 17
Soil Type	Montcalm sandy loam	Montcalm sandy loam	Montcalm sandy loam
Previous Crop	Clover	Sorghum—sudan seeded to rye in fall	Sorghum—sudan seeded to rye in fall
Population	20,700	20,500	18,700
Rows	30"	30"	30"
Fertilizer	255-110-110	150-120-170	277-130-130
Irrigation	9 inches	8 inches	5 inches
Soil Test: pH	6.5	6.1	5.6
P	268 (very high)	340 (very high)	297 (very high)
K	257 (high)	198 (high)	175 (medium)

Farm Cooperator: Theron Comden, Lakeview

County Extension Director: James Crosby, Stanton

Table 17 NORTH CENTRAL MICHIGAN Zone 3
OCEANA COUNTY TRIAL
One, Two, Three Year Averages— 1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Michigan 200 (4X)	18.7	22	21	112.8	98	96	10.1	6	5
Funk G-5048 (4X)	18.9	22	21	128.5	107	106	3.7	2	3
Pioneer 3977 (3X)	19.0	—	—	128.4	—	—	0.7	—	—
Michigan 280 (4X)	19.1	22	21	120.0	108	107	7.1	6	7
Funk G-4082 (3X)	19.7	23	21	101.7	91	92	1.5	6	1
Michigan 2833 (3X)	19.7	23	22	123.8	115	115	4.0	2	3
Michigan 275-2X (2X)	19.8	23	22	128.4	111	108	2.2	1	4
Wolverine 24 (4X)	20.2	—	—	123.9	—	—	2.2	—	—
Michigan 2853 (3X)	20.3	23	—	126.1	113	—	3.6	3	—
Funk G-4040 (2X)	20.4	—	—	131.5	—	—	0.8	—	—
Northrup King PX20 (2X)	20.4	24	—	134.1	113	—	0.0	1	—
Jacques JX62 (2X)	20.4	24	23	118.6	106	105	0.0	0	1
Funk G-5150 (4X)	20.4	23	22	114.2	101	95	6.0	6	7
Michigan 333-3X (3X)	20.6	24	23	134.2	119	117	0.0	0	2
Funk G-4195 (3X)	20.6	25	23	135.0	118	115	1.4	1	3
Blaney B100 (2X)	20.7	23	—	103.1	96	—	0.0	0	—
Wolverine W120 (2X)	20.7	—	—	116.8	—	—	0.0	—	—
Northrup King PX446 (3X)	20.7	25	23	127.1	105	98	6.0	3	4
Stewart 2914 (2X)	20.9	—	—	119.4	—	—	2.3	—	—
Northrup King PX476 (3X)	21.0	28	25	124.0	104	107	0.0	0	1
Migro M-0101 (2X)	21.2	26	—	112.4	106	—	1.5	2	—
Michigan 3093 (3X)	21.3	—	—	140.2	—	—	1.4	—	—
Pioneer 3958 (2X)	21.5	—	—	122.7	—	—	2.2	—	—
Pioneer 3965 (2X)	21.5	24	—	109.0	101	—	0.7	0	—
Funk G-4141 (2X)	21.7	—	—	141.4	—	—	2.1	—	—
Michigan 3102 (2X)	21.8	25	—	140.7	125	—	0.7	0	—
Pioneer 3853 (4X)	21.8	—	—	123.6	—	—	0.0	—	—
Blaney B302 (2X)	21.9	25	—	120.3	111	—	0.0	0	—
Pioneer 3955 (3X)	21.9	—	—	116.7	—	—	2.3	—	—
DeKalb XL12 (2X)	21.9	26	—	123.4	111	—	3.1	2	—
Pioneer 3956A (2X)	22.2	26	25	131.3	112	109	1.4	2	4
*Blaney B330 (2X)	22.8	—	—	143.0	—	—	0.0	—	—
Michigan 396-3X (3X)	22.8	27	25	131.0	119	120	0.7	1	2
Blaney B401 (2X)	22.9	27	—	125.5	116	—	2.2	1	—
Funk G-4252 (3X)	23.0	—	—	134.3	—	—	0.8	—	—
Cowbell 102 (2X)	23.3	—	—	130.1	—	—	3.9	—	—
Migro M-1020 (3X)	23.4	28	—	125.3	102	—	1.5	1	—
*Acco UC 2301 (2X)	23.4	—	—	143.5	—	—	0.0	—	—
Trojan TXS99 (2X)	23.4	27	25	140.2	124	120	1.5	1	2
Michigan 407-2X (2X)	23.7	29	—	140.7	122	—	2.7	2	—
*Michigan 410-2X (2X)	23.9	30	27	142.6	126	126	3.7	2	3
*Blaney 7305 (2X)	24.3	28	—	141.9	119	—	0.8	0	—
*Michigan 4122 (2X)	24.4	—	—	147.3	—	—	0.0	—	—
Northrup King PX32 (2X)	24.9	31	—	131.8	115	—	0.0	1	—
*Funk G-4343 (2X)	25.0	30	28	143.3	122	120	11.0	6	7
Acco U 334 (3X)	25.1	—	—	137.3	—	—	8.7	—	—
*Funk G-4288 (3X)	25.1	30	—	145.8	123	—	1.5	1	—
*Funk 26516 (3X)	25.5	—	—	141.7	—	—	4.3	—	—
Acco UC 2910 (2X)	25.6	—	—	112.0	—	—	0.7	—	—
Michigan 572-3X (3X)	25.7	32	—	133.4	117	—	2.2	1	—
Cowbell 4100 (2X)	26.0	33	—	118.9	98	—	1.1	1	—
Michigan 5443 (3X)	26.1	—	—	140.0	—	—	0.7	—	—
Super Crost 1901 (2X)	26.6	33	—	123.2	109	—	0.7	0	—
*Blaney B501A (2X)	26.8	30	28	142.3	120	115	2.2	1	3
Pioneer 3780 (2X)	27.0	33	30	140.6	116	117	2.1	1	2
Migro M-1212 (2X)	27.1	32	29	133.5	98	96	0.7	0	2
Cowbell 7300 (2X)	27.3	34	31	139.0	107	106	1.6	1	3
Northrup King PX46 (2X)	27.4	—	—	130.4	—	—	2.3	—	—
*Security SS105 (2X)	27.4	—	—	149.9	—	—	3.5	—	—
Blaney B-AA (2X)	27.6	32	30	140.2	108	107	0.0	0	3
Cowbell 7440 (2X)	27.9	33	—	138.1	123	—	1.5	1	—
Funk G-4444 (2X)	28.0	34	31	137.5	120	123	0.0	0	1
Northrup King PX48 (2X)	28.4	34	—	136.5	121	—	2.1	1	—
Migro M-1130 (2X)	28.9	36	32	124.3	97	106	0.7	0	2
Average	23.2	28	25	130.0	112	111	2.1	2	3
Range	18.7 to 28.9	22 to 36	21 to 32	101.7 to 149.9	91 to 126	92 to 126	0.0 to 11.0	0 to 6	1 to 9
Least significant difference	1.3	0.9	0.7	11.6	8	6			

*Significantly better than average yield in 1975.

		1975	1974	1973
Planted		May 14	May 31	May 18
Harvested		Oct. 28	Oct. 31	Oct. 29
Soil Type		Pewamo loam	Pewamo loam	Nester loam—Montcalm sandy loam
Previous Crop		Corn	Alfalfa	Corn
Population		20,300	20,400	20,600
Rows		30"	30"	30"
Fertilizer		75-80-110	113-60-98	105-60-75, manure
Soil Test:	pH	6.5	6.4	6.8
	P	60 (very high)	47 (very high)	65 (very high)
	K	154 (medium)	145 (medium)	167 (medium)

Farm Cooperator: Richard Kessler, Sr., Montague

County Extension Director: Ed Strong, Hart

Table 18 NORTHERN MICHIGAN Zone 4
GRAND TRAVERSE COUNTY TRIAL
One, Two, Three Year Averages— 1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Trojan TX70 (3X)	18.6	23	—	77.7	68	—	3.2	8	—
Stewart 2501 (2X)	19.0	23	21	101.8	91	89	0.0	0	8
Stewart 3505 (3X)	19.0	23	—	76.4	78	—	9.2	7	—
Jacques JX733 (3X)	19.7	24	23	72.3	63	67	3.0	5	18
DeKalb 007 (4X)	19.9	24	23	86.0	79	76	8.0	6	19
Michigan 2013 (3X)	20.0	—	—	98.1	—	—	5.3	—	—
Pioneer 3977 (3X)	20.0	26	—	99.1	95	—	4.8	2	—
Pride R103 (3X)	20.2	—	—	82.6	—	—	2.2	—	—
Funk G-4082 (3X)	20.3	25	23	90.4	82	81	9.4	6	20
Michigan 200 (4X)	20.3	25	24	93.3	87	89	3.7	3	5
Trojan TXS85 (2X)	20.4	27	25	86.7	82	86	1.5	2	5
Stewart 255 (2X)	20.4	—	—	100.5	—	—	2.2	—	—
Michigan 280 (4X)	21.0	27	25	104.1	101	101	2.2	2	7
Trojan TX85 (3X)	21.1	25	24	88.6	89	95	1.5	2	7
Funk G-5048 (4X)	21.5	26	24	99.4	93	94	0.8	1	9
Michigan 2853 (3X)	21.5	28	—	109.1	104	—	1.5	3	—
Michigan 2833 (3X)	21.7	28	26	99.5	100	102	3.8	2	6
Funk G-5150 (4X)	21.8	28	26	91.7	85	87	6.7	4	14
Super Crost 1103 (3X)	21.9	—	—	91.2	—	—	0.8	—	—
Michigan 275-2X (2X)	22.0	28	26	103.9	105	107	2.2	2	7
DeKalb 22 (4X)	22.0	25	25	83.5	83	78	4.3	3	19
*DeKalb XL10 (2X)	23.0	—	—	109.9	—	—	8.5	—	—
Garno S80 (2X)	23.1	31	27	95.8	83	83	1.5	1	10
*Michigan 3093 (3X)	23.3	—	—	117.4	—	—	1.5	—	—
*Pride R144 (3X)	23.4	—	—	110.1	—	—	1.6	—	—
*Funk G-4040 (2X)	23.5	—	—	124.5	—	—	0.0	—	—
Super Crost S14A (2X)	23.6	—	—	90.1	—	—	0.7	—	—
Wolverine W120 (2X)	23.7	29	—	98.1	88	—	0.0	0	—
*Michigan 3102 (2X)	24.0	—	—	121.2	—	—	0.8	—	—
Wolverine 24 (4X)	24.2	27	—	99.6	95	—	0.8	1	—
*Pioneer 3965 (3X)	24.2	29	26	109.8	107	108	1.4	1	6
Pride R173 (3X)	24.5	30	28	106.2	85	91	0.0	1	6
*Funk G-4141 (2X)	24.9	—	—	114.9	—	—	0.8	—	—
*Michigan 333-3X (3X)	25.1	31	29	115.3	102	107	2.3	3	5
Jacques JX30 (2X)	25.2	30	—	100.5	84	—	0.0	0	—
*Funk G-4195 (3X)	25.3	30	28	121.9	110	100	3.1	2	10
*Garno S-85X (2X)	25.6	—	—	118.0	—	—	0.0	—	—
Pioneer 3955 (3X)	25.7	—	—	97.0	—	—	0.0	—	—
*Jacques JX62 (2X)	26.1	30	28	115.1	102	99	0.0	0	6
*Michigan 396-3X (3X)	28.1	33	31	115.4	100	106	1.4	1	5
Average	22.5	27	26	100.4	90	108	2.5	2	9
Range	18.6 to 28.1	23 to 33	21 to 31	72.3 to 124.5	63 to 110	67 to 108	0.0 to 9.4	0 to 8	5 to 20
Least significant difference	1.1	0.8	0.6	9.3	6	5			

*Significantly better than average yield in 1975.

		1975	1974	1973
Planted		May 16	May 21	May 21
Harvested		Oct. 30	Oct. 29	Oct. 25
Soil Type		Coventry Newaygo loam	Coventry Newaygo loam	Coventry Newaygo loam
Previous Crop		Corn	Corn	Corn
Population		19,600	19,300	19,400
Rows		38"	38"	38"
Fertilizer		118-70-35	16-72-20, manure	120-65-19, manure
Soil Test:	pH	6.6	6.7	7.0
	P	185 (very high)	395 (very high)	259 (very high)
	K	279 (high)	348 (very high)	312 (very high)

Farm Cooperator: George Svec, Buckley

County Extension Director: George McManus, Traverse City

Table 19 **NORTHERN MICHIGAN** Zone 4
MISSAUKEE COUNTY TRIAL—SILAGE
One, Two, Three Year Averages—
1975, 1974, 1973

Hybrid (Brand-Variety)	% Dry Matter 1975	% Dry Matter 2 Yrs.	% Dry Matter 3 Yrs.	Tons per Acre Green Weight 1975	Tons per Acre Green Weight 2 Yrs.	Tons per Acre Green Weight 3 Yrs.	Tons per Acre Dry Weight 1975	Tons per Acre Dry Weight 2 Yrs.	Tons per Acre Dry Weight 3 Yrs.
Michigan 2013 (2X)	34.2	—	—	14.3	—	—	4.9	—	—
Michigan 200 (4X)	27.1	30.3	34.1	20.2	16.5	16.4	5.5	5.0	5.6
Funk G-5150 (4X)	26.3	31.4	34.1	21.5	17.2	16.4	5.7	5.4	5.6
Michigan 275-2X (2X)	26.2	31.3	35.0	21.0	17.9	17.7	5.5	5.6	6.2
Pioneer 3956A (2X)	26.1	29.9	—	21.7	17.7	—	5.7	5.3	—
Funk G-5048 (4X)	25.7	29.0	32.6	22.3	18.3	17.2	5.7	5.3	5.6
Michigan 280 (4X)	25.7	29.2	33.3	23.3	20.9	19.8	6.0	6.1	6.6
Michigan 2833 (2X)	25.7	29.1	33.5	21.4	19.6	19.1	5.5	5.7	6.4
Jacques JX62 (2X)	25.7	29.6	—	20.9	18.6	—	5.4	5.5	—
Funk G-4082 (3X)	25.7	31.3	34.6	21.0	16.0	15.3	5.4	5.0	5.3
Michigan 2853 (3X)	25.5	28.5	—	22.4	20.0	—	5.7	5.7	—
Pioneer 3958 (2X)	25.0	28.9	—	23.1	19.0	—	5.8	5.5	—
Pioneer 3965 (3X)	24.6	28.6	31.9	22.2	18.9	18.2	5.5	5.4	5.8
Funk G-4040 (2X)	24.5	—	—	25.0	—	—	6.1	—	—
Stewart 3701 (3X)	24.4	—	—	24.8	—	—	6.1	—	—
Pioneer 3977 (3X)	24.4	28.9	—	22.5	18.0	—	5.5	5.2	—
Super Crost 1103 (3X)	24.3	—	—	19.8	—	—	4.8	—	—
Super Crost S14A (2X)	24.1	—	—	22.0	—	—	5.3	—	—
Jacques JX863 (3X)	24.0	28.9	32.5	19.8	15.9	15.7	4.8	4.6	5.1
Northrup King PX442 (3X)	23.9	27.5	31.0	19.0	16.0	15.5	4.5	4.4	4.8
Funk G-4141 (2X)	23.7	—	—	24.3	—	—	5.8	—	—
Michigan 3102 (2X)	23.5	—	—	26.0	—	—	6.1	—	—
Stewart 38 (3X)	23.4	27.6	—	23.5	19.2	—	5.5	5.3	—
Michigan 3093 (3X)	23.4	—	—	24.8	—	—	5.8	—	—
Jacques 951 (4X)	23.1	27.0	—	19.6	17.8	—	4.5	4.8	—
Michigan 396-3X (3X)	23.1	26.4	30.8	21.3	17.4	18.5	4.9	4.6	5.7
Michigan 333-3X (3X)	22.3	25.8	30.3	24.8	20.9	20.8	5.5	5.4	6.3
Pioneer 3797 (3X)	22.1	25.1	—	23.8	19.9	—	5.3	5.0	—
Average	28.6	28.6	32.6	22.0	18.2	17.5	5.5	5.2	5.7
Range	22.1 to 34.2	25.1 to 31.4	30.3 to 35.0	14.3 to 26.0	15.9 to 20.9	15.3 to 20.8	4.5 to 6.1	4.4 to 6.1	4.8 to 6.6
Least significant difference	1.2	0.8	0.6	1.3	0.8	0.6	0.6	0.4	0.3

	1975	1974	1973
Planted	May 14	May 10	May 17
Harvested	Sept. 4	Sept. 19	Sept. 13
Soil Type	Kent silt loam	Kent silt loam	Kent silt loam
Previous Crop	Corn	Corn	Corn
Population	20,800	20,700	19,800
Rows	30"	30"	30"
Fertilizer	133-32-136	159-54-169	168-32-166

Farm Cooperator: Robert DeBoer, M.S.U. Lake City Experiment Station, Lake City

County Extension Director: Vern VandePol, Lake City

Cooperator: L. V. Nelson, Crop and Soil Sciences Department, Michigan State University

Table 20 **NORTHERN MICHIGAN** Zone 4
PRESQUE ISLE COUNTY TRIAL—GRAIN
One, Two, Three Year Averages—
1975, 1974, 1973

Hybrid (Brand-Variety)	% Moisture 1975	% Moisture 2 Yrs.	% Moisture 3 Yrs.	Bushels per acre 1975	Bushels per acre 2 Yrs.	Bushels per acre 3 Yrs.	% Stalk lodging 1975	% Stalk lodging 2 Yrs.	% Stalk lodging 3 Yrs.
Warwick TX17 (3X)	25.6	—	—	105.2	—	—	16.0	—	—
Warwick SL209 (2X)	26.7	36	34	133.0	112	105	1.4	7	23
Stewart 2501 (2X)	27.7	—	—	132.5	—	—	19.0	—	—
Stewart 255 (2X)	28.3	—	—	117.9	—	—	5.6	—	—
Michigan 2013 (3X)	28.3	—	—	138.9	—	—	5.2	—	—
Funk G-4082 (3X)	29.0	37	35	133.0	113	108	8.0	5	18
DeKalb 007 (4X)	29.1	37	35	115.8	100	95	20.9	12	27
Stewart 2300 (2X)	29.3	—	—	109.4	—	—	14.7	—	—
Michigan 200 (4X)	29.5	37	35	118.8	104	102	10.7	5	14
Pride R103 (3X)	29.7	—	—	123.7	—	—	2.9	—	—
Stewart 3505 (3X)	29.9	38	—	123.1	110	—	33.6	18	—
Warwick SL207 (2X)	29.9	—	—	125.0	—	—	6.5	—	—
Trojan TX70 (3X)	30.0	36	—	108.5	91	—	18.8	10	—
Pride R144 (3X)	31.4	41	—	132.9	110	—	0.0	0	—
Michigan 2853 (3X)	31.4	39	—	134.8	117	—	4.3	2	—
Pioneer 3977 (3X)	31.5	39	—	110.9	104	—	3.1	2	—
Jacques 844 (4X)	31.8	39	—	117.7	99	—	0.0	3	—
Michigan 2833 (3X)	31.9	39	37	126.0	112	111	2.2	1	7
Michigan 280 (4X)	32.2	39	37	123.7	109	106	2.1	1	11
Pride 137 (4X)	32.8	42	39	110.0	98	100	4.3	2	8
DeKalb DK22 (4X)	33.2	37	36	99.6	90	89	10.7	6	11
*Funk G-5048 (4X)	33.3	39	37	143.4	122	112	9.7	5	9
Warwick TX20 (3X)	33.3	—	—	127.1	—	—	6.9	—	—
Michigan 275-2X (2X)	33.4	42	39	135.1	114	109	10.4	5	10
Golden Harvest H-2220 (3X)	33.6	—	—	131.2	—	—	2.8	—	—
DeKalb XL10 (2X)	33.6	—	—	124.0	—	—	4.3	—	—
DeKalb XL310 (3X)	33.9	—	—	109.7	—	—	4.3	—	—
Northrup King PX420 (3X)	33.9	40	—	121.3	108	—	2.8	1	—
P.A.G. 7120	34.0	43	—	106.8	98	—	5.0	3	—
DeKalb XL311 (3X)	34.5	42	—	108.0	101	—	0.7	1	—
*Funk G-4040 (2X)	34.5	—	—	149.1	—	—	2.1	—	—
Northrup King PX446 (3X)	34.6	45	42	126.0	101	103	0.7	1	7
Northrup King PX442 (3X)	34.6	44	40	124.9	101	98	2.1	2	10
*Northrup King PX20 (2X)	34.7	—	—	150.9	—	—	2.8	—	—
*Michigan 3102 (2X)	34.7	—	—	151.2	—	—	0.0	—	—
Michigan 333-3X (3X)	34.8	45	42	136.6	111	111	2.8	1	9
Pioneer 3965 (3X)	35.0	41	39	133.5	110	109	0.0	0	6
*Michigan 3093 (3X)	35.2	—	—	141.3	—	—	1.4	—	—
*Golden Harvest H-2355 (2X)	35.9	—	—	145.2	—	—	4.2	—	—
P.A.G. SX121 (2X)	36.0	42	—	120.9	103	—	0.0	0	—
Golden Harvest H-2340 (2X)	36.1	—	—	129.9	—	—	1.4	—	—
*Garno S-85X (2X)	36.3	43	—	151.4	117	—	2.1	1	—
*Northrup King PX25 (2X)	36.6	45	—	154.5	110	—	0.0	0	—
*Funk G-4141 (2X)	36.6	—	—	155.2	—	—	0.0	—	—
Jacques 951 (4X)	36.9	45	42	121.6	103	96	7.6	5	6
Michigan 396-3X (3X)	38.5	47	44	139.9	109	107	2.9	1	10
Golden Harvest H-2290 (3X)	38.9	—	—	100.9	—	—	5.7	—	—
Pioneer 3663 (4X)	39.3	—	—	137.2	—	—	0.0	—	—
Average	33.0	41	38	127.3	106	104	5.7	4	12
Range	25.6 to 39.3	36 to 47	34 to 44	99.6 to 155.2	90 to 122	89 to 112	0.0 to 33.6	0 to 18	6 to 27
Least significant difference	1.6	1.2	1.0	13.4	8	6			

*Significantly better than average yield in 1975.

	1975	1974	1973
Planted	May 15	May 22	May 17
Harvested	Oct. 16	Oct. 17	Oct. 18
Soil Type	Onaway loam	Onaway loam	Mackinaw and Onaway clay loam
Previous Crop	Corn	Corn	Corn
Population	20,900	21,000	20,500
Rows	28"	28"	28"
Fertilizer	20-80-80, manure	202-64-64, manure	24-96-96
Soil Test: pH			7.3
P			90 (very high)
K			289 (high)

Farm Cooperators: Louis and Leroy Woloszyk, Posen

County Extension Director: Jay Poffenberger, Rogers City

Cooperator: L. V. Nelson, Crop and Soil Sciences Department, Michigan State University.

Table 21 **NORTHERN MICHIGAN** Zone 4
PRESQUE ISLE TRIAL—SILAGE
One, Two, Three Year Averages—
1975, 1974, 1973

Hybrid (Brand-Variety)	% Dry Matter 1975	% Dry Matter 2 Yrs.	% Dry Matter 3 Yrs.	Tons per Acre Green Weight 1975	Tons per Acre Green Weight 2 Yrs.	Tons per Acre Green Weight 3 Yrs.	Tons per Acre Dry Weight 1975	Tons per Acre Dry Weight 2 Yrs.	Tons per Acre Dry Weight 3 Yrs.
Warwick TX17 (3X)	34.5	—	—	17.4	—	—	6.0	—	—
Michigan 2013 (3X)	34.0	—	—	19.1	—	—	6.5	—	—
DeKalb DK22 (4X)	31.4	29.4	29.9	21.8	21.8	19.4	6.8	6.4	5.8
Stewart 2300 (2X)	29.2	—	—	21.1	—	—	6.2	—	—
Trojan TX70 (3X)	28.6	26.7	—	22.3	21.7	—	6.2	5.8	—
Michigan 200 (4X)	28.5	25.6	27.5	21.4	23.4	21.1	6.1	6.0	5.8
Stewart 3505 (3X)	28.4	25.5	—	25.1	24.6	—	6.8	6.3	—
Northrup King PX420 (3X)	27.0	26.0	—	24.2	24.6	—	6.5	6.4	—
DeKalb 007 (4X)	26.6	25.3	—	24.1	24.5	21.6	6.4	6.2	5.8
Pioneer 3977 (3X)	26.3	26.9	—	23.8	24.6	—	6.2	6.4	—

(Continued)

TABLE 21. (Continued)

Hybrid (Brand-Variety)	% Dry Matter 1975	% Dry Matter 2 Yrs.	% Dry Matter 3 Yrs.	Tons per Acre Green Weight 1975	Tons per Acre Green Weight 2 Yrs.	Tons per Acre Green Weight 3 Yrs.	Tons per Acre Dry Weight 1975	Tons per Acre Dry Weight 2 Yrs.	Tons per Acre Dry Weight 3 Yrs.
Warwick SL207 (2X)	26.2	—	—	25.9	—	—	6.7	—	—
Stewart 2501 (2X)	25.5	—	—	25.8	—	—	6.6	—	—
Warwick SL209 (2X)	25.3	24.5	26.1	25.2	24.5	21.8	6.3	6.0	5.7
Funk G-4082 (3X)	25.3	25.6	26.6	26.9	25.4	22.9	6.8	6.5	6.1
Michigan 275-2X (2X)	25.1	24.8	26.3	26.7	25.8	23.2	6.7	6.4	6.1
Golden Harvest H-2220 (3X)	24.8	—	—	21.9	—	—	5.4	—	—
P.A.G. SX121 (2X)	24.5	24.3	—	26.6	26.3	—	6.6	6.4	—
Pride R103 (3X)	24.4	—	—	23.8	—	—	5.8	—	—
Jacques 844 (4X)	23.9	24.5	—	23.0	23.7	—	5.5	5.8	—
Stewart 255 (2X)	23.9	—	—	26.0	—	—	6.2	—	—
Pride 137 (4X)	23.9	23.0	24.5	26.4	25.7	22.9	6.3	5.9	5.6
Funk G-4141 (2X)	23.8	—	—	29.0	—	—	6.8	—	—
Pride R144 (3X)	23.5	23.2	—	27.6	27.2	—	6.5	6.3	—
P.A.G. 7120	23.3	23.7	—	25.9	26.2	—	6.0	6.2	—
Funk G-5048 (4X)	23.2	23.6	24.8	29.0	26.7	23.4	6.7	6.3	5.8
Funk G-4040 (2X)	23.2	—	—	31.0	—	—	7.2	—	—
Warwick TX20 (3X)	22.9	—	—	30.5	—	—	7.0	—	—
Michigan 280 (4X)	22.9	22.8	25.0	31.0	29.8	26.0	7.1	6.8	6.5
DeKalb XL10 (2X)	22.7	—	—	28.0	—	—	6.3	—	—
Pioneer 3965 (3X)	22.6	23.7	24.9	29.0	28.3	25.3	6.5	6.7	6.3
Michigan 2853 (3X)	22.5	22.6	—	30.2	28.3	—	6.8	6.4	—
Michigan 3102 (2X)	22.5	—	—	32.4	—	—	7.3	—	—
DeKalb XL311 (3X)	22.4	23.0	—	23.1	24.4	—	5.2	5.6	—
Garno S-85X (2X)	22.4	22.4	—	32.1	29.9	—	7.2	6.7	—
Michigan 2833 (3X)	22.4	22.7	24.9	29.0	28.2	25.3	6.5	6.4	6.3
Pioneer 3663 (4X)	22.3	—	—	30.6	—	—	6.8	—	—
Northrup King PX442 (3X)	22.2	22.1	23.6	26.8	26.2	23.3	5.9	5.8	5.5
DeKalb XL310 (3X)	21.7	—	—	26.7	—	—	5.8	—	—
Northrup King PX 446 (3X)	21.5	22.1	23.5	31.9	28.1	24.7	6.8	6.2	5.8
Michigan 3093 (3X)	21.5	—	—	32.1	—	—	6.9	—	—
Northrup King PX20 (2X)	21.3	—	—	30.0	—	—	6.4	—	—
Northrup King PX25 (2X)	21.3	21.8	—	32.0	29.4	—	6.8	6.4	—
Michigan 333-3X (3X)	21.3	21.3	24.2	31.5	30.0	26.5	6.7	6.4	6.4
Golden Harvest H-2290 (3X)	21.1	—	—	28.4	—	—	6.0	—	—
Michigan 396-3X (3X)	21.0	19.7	22.4	31.4	30.4	27.2	6.6	6.0	6.1
Jacques 951 (4X)	20.8	21.7	23.6	28.8	28.1	24.6	6.0	6.1	5.8
Golden Harvest H-2340 (2X)	20.7	—	—	31.4	—	—	6.5	—	—
Golden Harvest H-2355 (2X)	20.5	—	—	31.2	—	—	6.4	—	—
Average	24.3	23.6	24.9	27.1	26.3	23.7	6.4	6.2	5.9
Range	20.5 to 34.5	19.7 to 29.4	22.4 to 29.9	17.4 to 32.4	21.7 to 30.4	19.4 to 27.2	5.2 to 7.2	5.6 to 6.8	5.5 to 6.5
Least significant difference	1.3	10.	0.7	1.5	0.8	0.6	0.4	0.3	0.3

	1975	1974	1973
Planted	May 15	May 22	May 17
Harvested	Sept. 3	Sept. 18	Sept. 12
Soil Type	Onaway loam	Onaway loam	Mackinaw and Onaway loam
Previous Crop	Corn	Corn	Corn
Population	20,900	21,000	20,500
Rows	28"	28"	28"
Fertilizer	20-80-80, manure	202-64-64, manure	24-96-96
Soil Test: pH			7.3
P			90 (very high)
K			289 (high)

Farm Cooperators: Louis and Leroy Woloszyk, Posen

County Extension Director: Jay Poffenberger, Rogers City

Cooperator: L. V. Nelson, Crop and Soil Science Department, Michigan State University.

Table 22 **NORTHERN MICHIGAN** Zone 4

Alger County Trial—SILAGE

One, Two Three Year Averages—1975, 1973, 1972

(No results from 1974)

Hybrid (Brand-Variety)	% Dry Matter 1975	% Dry Matter 2 Yrs.	% Dry Matter 3 Yrs.	Tons per Acre Green Weight 1975	Tons per Acre Green Weight 2 Yrs.	Tons per Acre Green Weight 3 Yrs.	Tons per Acre Dry Weight 1975	Tons per Acre Dry Weight 2 Yrs.	Tons per Acre Dry Weight 3 Yrs.
DeKalb DK22 (4X)	28.9	29.7	29.8	13.3	11.1	11.4	3.8	3.3	3.4
Michigan 2013 (3X)	28.6	—	—	13.7	—	—	3.9	—	—
Cargill 185 (4X)	26.4	29.7	—	13.1	11.1	—	3.5	3.3	—
Northrup King KE408 (4X)	26.4	28.0	27.9	14.9	11.4	12.2	3.9	3.2	3.4
Michigan 200 (4X)	26.4	29.9	28.6	14.4	12.7	13.3	3.8	3.8	3.8
Michigan 2833 (3X)	25.7	—	—	15.2	—	—	3.9	—	—
Funk G-4082 (3X)	25.1	28.8	27.9	14.9	12.5	12.9	3.7	3.6	3.6
Michigan 275-2X (2X)	24.8	26.8	26.5	14.1	12.7	13.2	3.5	3.4	3.5
Pioneer 3965 (3X)	24.3	27.3	—	17.1	15.0	—	4.2	4.1	—
Northrup King PX420 (3X)	24.3	28.7	28.6	15.0	12.9	12.6	3.6	3.7	3.6
DeKalb LX310 (3X)	24.1	—	—	14.1	—	—	3.4	—	—
Pride R102 (3X)	23.8	27.5	27.6	13.3	10.2	10.5	3.2	2.8	2.9
DeKalb 007 (4X)	23.7	28.3	27.5	13.0	11.3	12.0	3.1	3.2	3.3
Funk G-5048 (4X)	23.7	27.5	—	16.3	13.1	—	3.9	3.6	—
Michigan 280 (4X)	23.5	26.3	26.2	16.2	13.7	14.1	3.8	3.6	3.7
Funk G-4040 (2X)	22.6	—	—	15.0	—	—	3,4	—	—
Michigan 2853 (3X)	22.5	—	—	16.9	—	—	3.8	—	—
Stewart 38 (3X)	21.8	—	—	16.7	—	—	3.7	—	—
Northrup King KC3 (4X)	21.7	27.2	27.3	14.2	12.5	12.8	3.1	3.4	3.5
Stewart 3701 (3X)	21.7	—	—	15.6	—	—	3.4	—	—
Pioneer 3663 (4X)	21.5	—	—	16.3	—	—	3.5	—	—
DeKalb XL311 (3X)	21.0	—	—	13.1	—	—	2.8	—	—
Average	24.2	28.1	27.8	14.8	12.3	12.5	3.6	3.5	3.5
Range	21.0 to 28.9	26.3 to 29.9	26.2 to 29.8	13.0 to 17.1	10.2 to 15.0	10.5 to 14.1	2.8 to 4.2	2.8 to 4.1	2.9 to 3.8
Least significant difference	1.2	0.9	0.7	1.4	0.8	0.6	0.4	0.3	0.2

	1975	1973	1972
Planted	June 4	May 3	May 26
Harvested	Oct. 1	Sept. 16	Oct. 10-20
Soil Type	Chatham stoney loam	Chatham stoney loam	Chatham stoney loam
Previous Crop	Fallow	Corn	Corn
Population	17,400	16,700	18,300
Rows	36"	36"	36"
Fertilizer	51-51-51	57-57-57	48-48-48
Soil Test: pH			7.4
p			108 (very high)
K			354 (very high)

Cooperator: Dr. Don Reid, Michigan State University, Chatham

Table 23. Index for 330 hybrids entered as 1,665 entries in the 1975 Michigan Corn Performance Trials. Numbers within parentheses refer to table numbers in which the hybrid appears. (2X) indicates a single-cross hybrid, (3X) indicates a three-way hybrid, (4X) indicates a double-cross hybrid, and (Sp.) a special-cross hybrid. Company names used in association with hybrid numbers refer to the brand and the numbers are the variety (hybrid) designation.

ACCO Seed, Belmond, Iowa
- Acco, DC231 (4X) (16)
- Acco U334 (3X) (13, 16, 17)
- Acco U348 (3X) (1)
- Acco U356 (3X) (3, 5)
- Acco U370 (3X) (3)
- Acco DC394 (4X) (1)
- Acco DC441 (4X) (1)
- Acco UC1151 (2X) (11, 12)
- Acco UC2301 (2X) (6, 8, 9, 10, 14, 15, 16, 17)
- Acco UC2901 (2X) (6, 7, 9, 10, 11, 12, 17)
- Acco UC3201 (2X) (1, 4, 8, 14, 15)
- Acco UC3301 (2X) (2, 3, 5, 7, 9, 10, 11, 12, 13, 14, 15, 16)
- Acco UC4201 (2X) (2, 4)
- Acco UC4561 (2X) (1, 3, 5)

Adler's Seeds, Inc., Sharpsville, Indiana
- Adler 23X (2X) (1, 2, 3, 4, 5, 6)
- Adler 415 (3X) (1, 2, 3, 4)

Asgrow Seed Co., Des Moines, Iowa
- Asgrow RX32 (2X) (11, 12)
- Asgrow RX35A (2X) (11, 12)
- Asgrow RX42 (2X) (4, 9, 10, 11, 12, 16)
- Asgrow RX53 (2X) (4, 9, 10, 16)
- Asgrow RX58 (2X) (4, 9, 10)
- Asgrow RX64 (2X) (16)
- Asgrow 2222 (2X) (4, 9, 10, 16)

Bayless Hybrids, Inc., Bluffton, Indiana
- Bayless SX434 (2X) (2, 3)
- Bayless SX434-3 (2X) (3, 5)
- Bayless SX434M (2X) (2, 3, 5)
- Bayless SX447 (2X) (3)
- Bayless SX637 (2X) (3)
- Bayless SX1795 (2X) (3)

Blaney Farms, Inc., Madison, Wisconsin
- Blaney B-AA (2X) (2, 7, 17)
- Blaney BX-AA (2X) (2, 5)
- Blaney B33A (3X) (6)
- Blaney B44A (3X) (6)
- Blaney B100 (2X) (17)
- Blaney B302 (2X) (2, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Blaney B330 (2X) (17)
- Blaney B401 (2X) (5, 6, 8, 11, 12, 13, 14, 15, 16, 17)
- Blaney B442 (3X) (16)
- Blaney B443 (3X) (16)
- Blaney B501A (2X) (2, 4, 17)
- Blaney B606 (2X) (1, 2, 3, 4, 5, 6, 8, 9, 10, 13, 14, 15, 16)
- Blaney B705 (2X) (3)
- Blaney B805 (2X) (3)
- Blaney 6616 (3X) (14, 15)
- Blaney 7305 (2X) (1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)

Cardinal Seed Co., Quincy, Michigan
- Cardinal SX105 (2X) (11, 12, 13, 14, 15, 16)
- Cardinal SX112 (2X) (1, 4, 9, 10, 13)

Cargill Seeds, Minneapolis, Minnesota
- Cargill 185 (4X) (22)
- Cargill 434 (3X) (9, 10)
- Cargill 449 (2X) (3)
- Cargill 830 (2X) (11, 12, 13, 14, 15)
- Cargill 863 (2X) (9, 10, 11, 12, 14, 15)
- Cargill 890 (2X) (1, 2, 3, 9, 10)
- Cargill 920 (2X) (1, 2, 3, 9, 10)

Cowbell Seeds, Inc., Wayland, Michigan
- Cowbell 102 (2X) (4, 6, 7, 8, 16, 17)
- Cowbell 4100 (2X) (4, 6, 7, 8, 9, 10, 16, 17)
- Cowbell 7300 (2X) (2, 3, 4, 5, 6, 7, 8, 9, 10, 16, 17)
- Cowbell 7440 (2X) (3, 4, 5, 7, 8, 9, 10, 16, 17)
- Cowbell 7480 (2X) (1, 2, 3, 4, 5, 7, 8, 9, 10, 16)

DeKalb Ag. Research, Inc., DeKalb, Illinois
- DeKalb 007 (4X) (18, 20, 21, 22)
- DeKalb DK22 (4X) (18, 20, 21, 22)
- DeKalb XL10 (2X) (11, 12, 18, 20, 21)
- DeKalb XL12 (2X) (1, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- DeKalb XL15A (2X) (16)
- DeKalb XL16 (2X) (7, 9, 10, 11, 12)
- DeKalb XL19 (2X) (2. 9, 10)
- DeKalb XL21 (2X) (2, 11, 12)
- DeKalb XL21A (2X) (3)
- DeKalb XL22 (2X) (3, 4)
- DeKalb XL22B (Sp) (7, 14, 15)
- DeKalb XL42 (2X) (1, 7, 13, 14, 15)
- DeKalb XL43A (2X) (1, 9, 10, 13)
- DeKalb XL44 (2X) (2, 3, 4, 13)
- DeKalb XL45A (2X) (3, 13)
- DeKalb XL310 (3X) (20, 21, 22)
- DeKalb XL311 (3X) (16, 20, 21, 22)

E. J. Funk & Sons, Inc., Kentland, Indiana
- Super Crost S14A (2X) (18, 19)
- Super Crost S25 (2X) (1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16)
- Super Crost S27 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
- Super Crost S29 (2X) (1, 2, 3, 9, 10)
- Super Crost 1103 (3X) (18, 19)
- Super Crost 1610 (2X) (9, 10, 16)
- Super Crost 1692 (2X) (6, 7, 9, 10, 11, 12, 13, 14, 15, 16)
- Super Crost 1901 (2X) (2, 5, 7, 9, 10, 11, 12, 13, 14, 15,16, 17)
- Super Crost 2572 (2X) (1, 6)
- Super Crost 2772 (2X) (1, 2, 7, 8, 9, 10, 13)
- Super Crost 2890 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13)
- Super Crost 3433 (3X) (1, 2, 3, 6)
- Super Crost 4242 (2X) (1, 2, 3, 4, 5)
- Super Crost 5440 (2X) (1, 3)

Funk Seeds International, Bloomington, Illinois
- Funk G-WX302 (Sp) (2, 3, 4, 7, 9, 10, 16)
- Funk G-WX520 (2X) (1, 2, 3)
- Funk G-L2384 (Sp) (1, 2, 3, 4, 7, 9, 10, 16)
- Funk G-4040 (2X) (14, 15, 17, 18, 19, 20, 21, 22)
- Funk G-4082 (3X) (17, 18, 19, 20, 21, 22)
- Funk G-4141 (2X) (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
- Funk G-4195 (3X) (6, 7, 8, 11, 12, 13, 14, 15, 16, 17, 18)
- Funk G-4252 (3X) (7, 8, 11, 12, 13, 14, 15, 16, 17)
- Funk G-4288 (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17)
- Funk G-4321 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
- Funk G-4343 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Funk G-4366 (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 16)
- Funk G-4384A (Sp) (2, 7)
- Funk G-4404 (2X) (2, 4, 6)
- Funk G-4408 (2X) (1, 2, 3, 4, 5, 6)
- Funk G-4444 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Funk G-5048 (4X) (17, 18, 19, 20, 21, 22)
- Funk G-5150 (4X) (17, 18, 19)
- Funk 26516 (3X) (7, 11, 12, 13, 14, 15, 16, 17)

Garno Seed Co., Deerfield, Michigan
- Garno S75X (2X) (14, 15)
- Garno S80X (2X) (18)
- Garno S85X (2X) (9, 10, 11, 12, 14, 15, 18)
- Garno WX91 (2X) (11, 12, 13)
- Garno S92 (2X) (11, 12, 14, 15)
- Garno S96 (2X) (3)
- Garno S110 (2X) (1, 2, 3, 4, 5)

Fred Gutwein & Sons, Inc., Francesville, Indiana
- Gutwein 08 (2X) (11, 12, 13, 14, 15)
- Gutwein 10A (2X) (11, 12, 13, 14, 15)
- Gutwein 23 (2X) (5, 7, 9, 10, 11, 12, 13)
- Gutwein 40 (2X) (2, 5, 7, 9, 10, 11, 12, 13, 14, 15)
- Gutwein 46 (2X) (2, 5,7, 9, 10)
- Gutwein 48 (2X) (5)
- Gutwein 58 (2X) (2)
- Gutwein 62 (2X) (2, 5)
- Gutwein 69A (2X) (2, 5)
- Gutwein 128 (Sp.) (2, 5)

Helena Chemical Co., Charlotte, Michigan
- Wil-Star RV32 (2X) (14, 15)
- Wil-Star RV38 (2X) (14, 15)
- Wil-Star RV43 (2X) (1, 14, 15)
- Wil-Star RV50 (2X) (1)
- Wil-Star RV55 (2X) (1, 14, 15)

Hulting Hybrids, Geneseo, Illinois
- Hulting X310 (2X) (1, 2, 3)
- Hulting X322 (2X) (1, 2, 3)
- Hulting X537 (2X) (1, 2, 3)
- Hulting X770 (2X) (1, 2, 3)
- Hulting X6861 (3X) (1, 2, 3)
- Hulting X9761 (3X) (2, 3)
- Hulting X9770 (3X) (2, 3)
- Hulting Exp. 74149 (3X) (1, 2, 3)

Jacques Seed Co., Prescott, Wisconsin
- Jacques JX30 (2X) (18)
- Jacques JX62 (2X) (4, 7, 17, 18, 19)
- Jacques JX67 (2X) (17)
- Jacques JX92 (2X) (4, 14, 15)
- Jacques JX122A (2X) (1, 2, 4, 11, 12, 14, 15)
- Jacques JX177 (2X) (4)
- Jacques JX733 (3X) (18)
- Jacques JX863 (3X) (19)
- Jacques 951 (4X) (19, 20, 21)

Lowe Seed Co., Kankakee, Illinois
- Lowe LMS201 (Sp.) (14, 15)
- Lowe LSX2TP (2X) (2, 3)
- Lowe LTX-2 (3X) (3)

Michigan Crop Improvement Assoc., East Lansing, Michigan
- Michigan 200 (4X) (17, 18, 19, 20, 21, 22)
- Michigan 2013 (3X) (18, 19, 20, 21, 22)
- Michigan 275-2X (2X) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
- Michigan 280 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
- Michigan 2833 (3X) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
- Michigan 2853 (3X) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
- Michigan 3093 (3X) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
- Michigan 3102 (2X) (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
- Michigan 333-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
- Michigan 396-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21)
- Michigan 407-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Michigan 410-2X (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Michigan 4122 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Michigan 5443 (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Michigan 572-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Michigan 575-3X (3X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)
- Michigan 5802 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16)

Michigan Hybrid Seed Co., East Lansing, Michigan
- Wolverine 24 (4X) (17, 18)
- Wolverine W120 (2X) (17, 18)
- Wolverine W128 (2X) (7, 11, 12, 14, 15, 16)
- Wolverine W166 (2X) (11, 12, 13, 14, 15, 16)
- Wolverine W170 (2X) (1, 2, 7, 9, 10, 13)
- Wolverine W174 (2X) (1, 2, 9, 10, 13, 14, 15)
- Wolverine W176 (2X) (2, 9, 10)
- Wolverine W177 (2X) (1, 2, 9, 10)

Migro Hybrids, Mitchell, Indiana
- Migro M-0101 (2X) (4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Migro M-0501 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
- Migro M-0601 (2X) (1, 2)
- Migro M-1020 (2X) (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Migro M-1101 (2X) (7)
- Migro M-1130 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Migro M-1212 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. 17)
- Migro M-3020 (4X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
- Migro M-4501 (2X) (1, 2, 3, 4, 5, 6)
- Migro M-5040 (4X) (1, 2, 3, 4, 5, 6)
- Migro M-6666 (2X) (2, 3)

Muncy Chief Hybrids, Muncy, Pennsylvania
- Muncy Chief H-304 (4X) (13)
- Muncy Chief H-401 (4X) (13)
- Muncy Chief SX442 (2X) (2, 9, 10, 13)
- Muncy Chief SX550 (2X) (2, 9, 10, 13)
- Muncy Chief SX662 (2X) (2, 9, 10)
- Muncy Chief H764 (4X) (9, 10)
- Muncy Chief SX878 (2X) (9, 10)

Northrup King & Co., Minneapolis, Minnesota
- Northrup King PX20 (2X) (3, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 20, 21)
- Northrup King PX25 (2X) (20, 21)
- Northrup King PX32 (2X) (1, 2, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Northrup King PX46 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
- Northrup King PX48 (2X) (1, 3, 4, 6, 9, 10, 13, 14, 15, 17)
- Northrup King PX50A (2X) (1, 2, 3, 4, 6, 11, 12, 13)
- Northrup King PX65 (2X) (1, 2, 3, 4, 5, 6)
- Northrup King PX74 (2X) (3, 4, 5)
- Northrup King 105 (3)
- Northrup King KE408 (4X) (22)
- Northrup King PX418 (3X) (14, 15)
- Northrup King PX420 (3X) (20, 21, 22)
- Northrup King PX442 (3X) (19, 20, 21)
- Northrup King PX446 (3X) (17, 20, 21)
- Northrup King PX476 (3X) (17)
- Northrup King PX529 (3X) (7, 11, 12, 13, 14, 15, 16)
- Northrup King PX545 (3X) (2)
- Northrup King PX606 (3X) (3, 6)
- Northrup King PX610A (3X) (2, 3, 5)
- Northrup King PX614 (3X) (1, 5)
- Northrup King KC3 (4X) (22)

O's Gold Seed Co., Parkersburg, Iowa
- O's Gold SX1100 (2X) (1, 5, 13, 14, 15)
- O's Gold SX1101 (2X) (1, 13)
- O's Gold SX2102 (2X) (5)
- O's Gold SX2145 (2X) (1, 13)
- O's Gold 3104 (3X) (1)

OYO Seed Associates, Inc., Marysville, Ohio
- OYO 220 (2X) (1, 2)
- OYO333 (2X) (1, 2)

P.A.G. Seeds, Minneapolis, Minnesota
- P.A.G. SX67 (2X) (5, 8, 11, 12, 14, 15)
- P.A.G. SX69 (2X) (3, 5, 9, 10, 11, 12, 14, 15, 16)
- P.A.G. SX121 (2X) (20, 21)
- P.A.G. SX177 (2X) (9, 10, 11, 12, 14, 15)
- P.A.G. SX210 (2X) (8, 9, 10, 11, 12, 14, 15)

(Continued)

TABLE 23. (Continued)

P.A.G. SX397 (2X) (1, 3, 9, 10)
P.A.G. SX424 (2X) (1, 3, 5, 9, 10)
P.A.G. 7120 (20, 21)
P.A.G. 7317 (3X) (8)

Roy Parker & Sons, Inc., Kimmell, Indiana

Parker 36A (2X) (6)
Parker 50 (2X) (3)
Parker 260 (3X) (3)

Payco Hybrids, Dassel, Minnesota

Payco SX465 (2X) (13)
Payco SX775N (2X) (13)

Pioneer Hi-Bred, Inc., Tipton, Indiana

Pioneer 3516 (2X) (2)
Pioneer 3518 (Sp.) (1, 2, 3, 4, 5, 13, 14, 15)
Pioneer 3529 (Sp.) (1, 2, 3, 4, 5)
Pioneer 3535 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16)
Pioneer 3663 (4X) (20, 21, 22)
Pioneer 3716 (3X) (1, 2, 3, 4, 5, 6, 7, 16)
Pioneer 3773 (2X) (2, 3, 13)
Pioneer 3780 (2X) (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Pioneer 3784 (2X) (1, 7, 11, 12, 14, 15)
Pioneer 3785 (2X) (16)
Pioneer 3797 (3X) (19)
Pioneer 3853 (4X) (17)
Pioneer 3955 (3X) (11, 12, 13, 16, 17, 18)
Pioneer 3965A (2X) (11, 12, 17, 19)
Pioneer 3958 (2X) (11, 12, 13, 16, 17, 19)
Pioneer 3965 (3X) (11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)
Pioneer 3977 (3X) (17, 18, 19, 20, 21)

Prairie Stream Farms, Inc., Frankfort, Indiana

Prairie Stream SX3 (2X) (5)
Prairie Stream SX3A (2X) (5)

Pride Seed, Inc., Coldwater, Michigan

Pride R102 (3X) (22)
Pride R103 (3X) (18, 20, 21)
Pride 137 (4X) (20, 21)
Pride R144 (3X) (18, 20, 21)
Pride R173 (3X) (18)
Pride R290 (2X) (16)
Pride R407 (2X) (3)
Pride 2264 (2X) (8, 14, 15)
Pride 3315 (2X) (8, 11, 12, 14, 15)
Pride 4404 (2X) (11, 12, 13, 14, 15, 16)
Pride 5525 (2X) (1, 2, 3, 4, 5, 6, 9, 10, 13)
Pride 5574 (2X) (3, 5, 6)
Pride 6694 (2X) (1, 3)
Pride 7715 (2X) (1, 2, 3)

Renk Seed Co., Sun Prairie, Wisconsin

Renk RK2 (2X) (9, 10)
Renk RK6 (2X) (3, 9, 10)
Renk RK11AA (2X) (3, 7, 9, 10)
Renk RK16 (2X) (3, 9, 10)
Renk RK44 (2X) (3, 9, 10)
Renk RK66 (2X) (3)

Security Seed Co., Williamsburg, Iowa

Security SS97 (2X) (11, 12, 13, 14, 15)
Security SS105 (2X) (1, 2, 3, 5, 9, 10, 11, 12, 13, 14, 15, 16, 17)
Security SS105-WX (2X) (9, 10)
Security SS108 (2X) (1, 2, 3, 9, 10)

Sommer Bros. Seed Co., Pekin, Illinois

Golden Harvest H-2220 (3X) (20, 21)
Golden Harvest H-2290 (3X) (1, 3, 5, 6, 7, 9, 10, 13, 14, 15, 20, 21)
Golden Harvest H-2355 (2X) (1, 3, 5, 6, 7, 9, 10, 13, 14, 15, 20, 21)
Golden Harvest H-2340 (2X) (20, 21)
Golden Harvest H-2400 (3X) (1, 6, 14)
Golden Harvest H-2420 (2X) (1, 3, 5, 6, 7, 9, 10, 13, 14, 15)
Golden Harvest H-2450 (2X) (1, 3, 5, 6, 7, 9, 10, 13, 14, 15)
Golden Harvest H-2500 (2X) (3, 5, 6, 7, 9, 10, 14, 15)

Stewart Seed Ltd., Ailsa Craig, Ontario, Canada

Stewart 38 (3X) (19, 22)
Stewart 255 (2X) (18, 20, 21)
Stewart 2300 (2X) (20, 21)
Stewart 2501 (2X) (18, 20, 21)
Stewart 2914 (2X) (11, 12, 13, 14, 15, 17)
Stewart 2-3001 (2X) (11, 12, 14, 15)
Stewart 2-3102 (2X) (7, 8, 9, 10, 11, 12, 13, 14, 15)
Stewart 3-3301 (3X) (4, 9, 10)
Stewart 3505 (3X) (18, 20, 21)
Stewart 3701 (3X) (19, 22)

Todd Hybrid Com. Co., Burlington, Indiana

Todd MX33 (3X) (2, 3)
Todd M50 (2X) (2, 3)
Todd M30 (2X) (2, 3)
Todd M58 (2X) (2, 3)

Trojan Seed Co., Madison, Wisconsin

Trojan TX70 (3X) (18, 20, 21)
Trojan TX85 (3X) (6, 18)
Trojan TXS85 (2X) (14, 15, 18)
Trojan TXS94 (2X) (6, 11, 12, 14, 15)
Trojan TXS99 (2X) (7, 9, 10, 14, 15, 17)
Trojan TX100 (3X) (14, 15)
Trojan TXS102 (2X) (1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 14, 15)
Trojan TXS102A (2X) (6)
Trojan TXS105A (2X) (7, 9, 10, 13)
Trojan TXS108A (2X) (2)
Trojan TXS113 (2X) (1, 2, 3, 5)

Voris Seeds Inc., Windfall, Indiana

Voris V2402 (2X) (1, 3, 7)
Voris V2422 (2X) (6)
Voris V2442 (2X) (5, 9, 10)
Voris V2452 (2X) (6, 7)
Voris V2482 (2X) (1)
Voris V2532 (2X) (1, 3, 5, 9, 10)

Warwick Seed Co., Ltd., Blenheim, Ontario, Canada

Warwick TX17 (3X) (20, 21)
Warwick TX20 (3X) (20, 21)
Warwick TX27 (3X) (9, 10)
Warwick TX32 (3X) (2, 9, 10)
Warwick SL207 (2X) (20, 21)
Warwick SL209 (2X) (20, 21)
Warwick SL314 (2X) (9, 10)
Warwick SL501 (Sp) (2, 9, 10)
Warwick SL601 (2X) (2)

Wyckoff Hybrids, Inc., Valparaiso, Indiana

Wyckoff 1266SX (2X) (2, 6)
Wyckoff 2414SX (2X) (2, 3, 6)
Wyckoff 3537SX (2X) (2, 3)