

1987 Michigan Soybean Performance Report

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This bulletin provides information on the performance of soybean varieties available in Michigan.

Comprehensive variety yield trials were conducted in Southeastern Michigan (Lenawee County), Southwestern Michigan (St. Joseph County), Far Southwestern Michigan (Berrien County), South Central Michigan (Ingham County), Central Michigan (Saginaw County), and East Central Michigan (Sanilac and Macomb Counties). A smaller trial was conducted in Huron County.

Testing Procedures

Commercial varieties voluntarily entered were obtained from seed companies. Public varieties were supplied by the Michigan Foundation Seed Association.

Cooperators, planting and harvest dates, fertilizer practices, previous crops, and soil management groups at the eight locations are listed in Table 1.

Maturity groups of all varieties tested are listed in Tables 2 and 5. Seed of entries was planted in plots 20 feet long with a 20-inch row spacing, 1½ inches deep at 4.5 seeds per foot of row. Each plot was randomized in the trial and replicated 3 times. Fourteen feet of the center two rows were harvested for yield.

Evaluation of Characteristics

YIELD—Yield is expressed in bushels per acre at 13% moisture.

MATURITY DATE—Entries were considered mature when 95% of the pods had attained their final color and would crack under finger pressure. Additional field drying was required before the plants were ready to harvest. Dates were recorded by month and day.

HEIGHT—Plant height, in inches, was measured at maturity from the soil surface to the tip of the main stem.

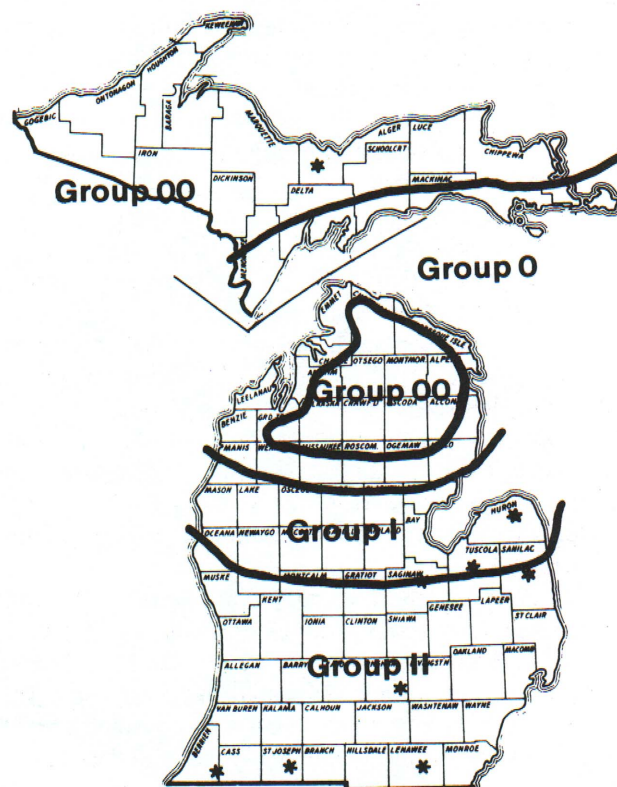
LODGING—Lodging rates reflect the erectness of the plants before harvest. Ratings are based on the following scale:

1. Almost all plants erect

2. All plants leaning slightly, or fewer than 25% of the plants down
3. All plants leaning moderately (45%), or 25% to 50% of the plants down
4. All plants leaning considerably, or 50% to 80% of the plants down
5. Almost all plants down

Results

Tables 2-5 show results of 1987 soybean variety trials. Values given are the averages of all replications harvested at each location. Extremely dry weather in June and July adversely affected the plots in Huron county.



Soybean Maturity Zones for Full-Season Varieties in Michigan, and Locations (*) of Trials.

The LSD (least significant difference) value is useful when comparing two varieties in the same table. Two varieties with the same genetic potential for yield may have different yields due to variation in soil fertility, compaction, and other environmental factors. If the difference is less than the LSD value, the difference between the varieties may be due to chance or minor environmental differences. However, if the difference between two varieties is greater than the LSD, there is a 95%, or better, probability that the performance is actually different. The CV value is an indicator of the degree of precision for a particular test. The lower the CV value, the more discerning the test.

Selecting a Variety

The primary consideration in selecting a variety is yield. When evaluating a variety, consider yield performance over several years, if available. Give preference to data obtained in the nearest variety trial. Use all trials in determining a variety's performance under various environmental conditions.

Considerations other than yield are important in selecting a variety, and in some cases result in choosing a variety with only moderate performance. It is especially important to select a variety with proper maturity. From past weather data, farmers can determine the percent probability of the first fall frost. A general rule of thumb is to choose a variety that will mature (see maturity date definition) before the average date for 25% chance of the first killing frost in the fall. Farmers growing soybeans for the first time may wish to contact neighbors to determine what varieties mature before frost in their area. When large acreages of soybeans are planted, varieties of different maturities provide staggered maturity dates for a longer harvest season.

The degree of lodging varies among varieties. Lodged plants in variety trials are manually picked up and threshed, thus yield losses from lodging are not reflected in the yields reported. Lodging ratings should be used to evaluate potential losses. Farmers who have experienced lodging in the past and have had harvest problems may select a more lodging-resistant variety. Alternately, a variety susceptible to lodging may be planted at a slightly lower population to increase standability. Evaluate lodging data over all locations to determine a variety's lodging characteristics.

Note seed size when selecting planting rates. Planting rates should be based on number of seeds per foot of row and not on pounds per acre.

Many diseases occur in soybean fields in Michigan. The diseases which contribute most significantly to yield reduction are seed and seedling diseases and those causing root and stem rots. Root rots of soybeans are generally recognized when plants turn yellow prematurely, wilt, or die. Less noticeable is the yield reduction that occurs when root rot destroys part of the root system, but causes no visible symptoms to above-ground parts. The fungi that cause root rots often survive in the soil for several years,

The most important and widespread root disease is Phytophthora root rot. New varieties with resistance to several races of the fungus have been developed, but no variety is resistant to all races. Disease resistance characteristics of varieties to Phytophthora root rot are given in Table 2. Growers who have experienced losses due to this disease would increase their chances of success by using one of the multi-race resistant varieties.

Sclerotinia stem rot (white mold) is a problem in some fields, especially where white beans were grown in the past. Field tests in 1984 and 1985 indicated wide differences in disease among varieties (see 1986 Michigan Soybean Performance Report—E-1206). Where problems with this disease are experienced one of the varieties with lower disease ratings might be beneficial.

It is often beneficial for growers to select a few good varieties for planting each year. Yield determination and careful field evaluation during the growing season will add to the grower's knowledge of varietal performance and allow better selection.

More information about variety selection and cultural practices can be found in Extension Bulletin E-1549, "Soybean Production in Michigan," and E-2080 "Producing Soybeans in Narrow Rows."

Use of Data

Table 2 presents multiple-environment averages from all tests in the Southern and Central Michigan regions since 1975. The column labeled N refers to the number of tests in which each variety was included. The column labeled DEV. refers to the difference (in bushels per acre) between the mean yield of the variety over N tests and the mean yield of all varieties in those tests. The maturity checks used for tests of Group I and Group II varieties were "Hodgson 78" (H78) and "Corsoy 79" (C79), respectively. A positive relative maturity value means that the variety matured later than the check and a negative value means that the variety matured earlier than the check. The value is the actual number of days in either direction.

Data presented in Tables 3 through 5 are from both regional and site-specific performance trials. Both 1987 yields and multiple-year average yields from all tests since 1975 are given. Maturity, height (in inches), and lodging scores are the 1987 regional averages. Maturity is expressed as + or - days when compared with the check variety. For 1987 yield data, all starred entries designate yields not significantly different from the highest yield for that location. Multiple-environment and multiple-year averages comprised of a greater number of tests (greater N) should be considered more reliable.

The presentation of data for the entries tested does not suggest approval or endorsement of varieties by the authors or by those responsible for conducting the performance trials.

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TABLE 1. Variety trial information.

County	Lenawee	St. Joseph	Berrien	Ingham	Saginaw	Macomb	Sanilac	Huron
CES Director/ Agent	N. R. Bless G. A. Wuethrich	F. J. Henningsen M. J. Kaercher	J. E. Niebauer J. Davidhizar	M. M. Preston D. R. Batchelor	Jim Thews S. S. Poindexter	J. L. Voorheis L. J. Jess	R. C. Weber M. Nagelkirk	R. A. Johnson J. P. LeCureux
Farmer Cooperator	David Woods	B. Marantette J. Sheppard	B. Anderson		C. Gosen	R. A. Greenia	K. Pritchett	J. Jurgess
Address	Woods Seed Farm 10992 Holloway Rd. Britton, MI	MFI 25660 Simpson Rd. Mendon, MI	Andrews University Berrien Springs, MI	MSU Campus East Lansing, MI	8735 Swan Creek Rd. Saginaw, MI	Greenia Bros. Farm 1395 Kronner Rd. Richmond, MI	2985 S. Sandusky Rd. Sandusky, MI	4300 Sand Beach Rd. Bad Axe, MI
Soil Type	Lenawee silty clay loam	Elston sandy loam	Abscota sandy loam	Capac loam	Pella silt loam and Kibbie fine sandy loam	Parkhill loam	Capac loam and fine sandy loam	Shebeon loam and Kilmanagh loam
Soil Management Group	1.5c	4a	L-4a	2.5b	2.5c-s and 2.5b-s	2.5c	2.5b	2.5b-d and 2.5c
Previous Crop	Wheat	Corn	Corn	Corn	Corn	Barley	Sugarbeets	Corn
Fertilizer	250# 0-0-60	200# 5-14-24 with 5% ZN	None	200# 6-24-24	200# 5-20-20	200# 6-24-24	290# 8-17-34	200# 6-24-24
Planting Date	5/7/87	5/25/87	5/26/87	5/11/87	5/13/87	5/21/87	5/21/87	5/27/87
Harvest Date	10/1/87	10/3/87	10/13/87	10/10/87	10/9/87	10/15/87	10/14/87	10/16/87

TABLE 2. Performance Summary for Varieties Entered in the Michigan Trials in 1987. Phytophthora Resistance Designations Denote the Following: Type 1A Resistant to Races 1, 2, and 10; Type 1B Resistant to Races 1 and 3-9; Type 1C Resistant to Races 1-3 and 6-10; Type 1K Resistant to Races 1-10; Type 3 Resistant to Races 1-5, 8, and 9; Type 6 Resistant to Races 1-4 and 10.

Brand / Entry	MG	Phyt. Res. Type	Yield (bu/A) with deviation from mean						Maturity relative to checks						Lodging Score	
			Southern			Central			Southern		Central		South.	Central		
			Yield	(n)	Dev.	Yield	(n)	Dev.	Date	H78	C79	Date	H78	C79		
Public																
Amcor	II	Rps1a	44.0	(21)	-0.1	45.7	(21)	0.3	9-28	12	5	10-7	12	4	3.1	3.0
Beeson 80	II	Rps1c	36.0	(21)	-8.1 *	37.1	(23)	-7.5 *L	9-26	10	3	10-7	11	4	2.0	2.2
BSR 101	I	Rps1a	48.6	(15)	2.3	46.7	(18)	2.0 *	9-20	4	-3	10-3	8	-1	1.7	2.1
BSR 201	II	Rps1b	48.9	(18)	1.5	47.0	(16)	1.1	9-25	10	3	10-6	11	2	2.7	3.0
Century	II	Rps1a	46.0	(22)	1.6	44.8	(24)	0.5	9-27	10	4	10-7	11	4	1.9	2.1
Century 84	II	Rps1c	46.7	(13)	1.4	48.3	(13)	2.7 *	9-26	11	4	10-7	13	4	1.5	1.9
Corsoy	II	None	42.7	(30)	0.5	40.9	(33)	-0.5 L	9-23	6	0	10-1	6	0	2.5	2.3
Corsoy 79	II	Rps1c	43.5	(28)	0.4	45.2	(35)	1.6 *	9-24	7	0	10-3	7	0	2.6	2.5
Dassel	0	Rps6	-	-	-	41.3	(11)	-4.9	-	-	-	9-23	-2	-10	-	1.3
Dawson	0	Rps1a	-	-	-	42.2	(23)	-2.1 L	-	-	-	9-21	-5	-13	-	1.7
Elgin	II	None	47.8	(19)	2.9 *	48.2	(20)	3.6 *	9-23	8	0	10-3	7	0	2.2	2.2
Gnome 85	III	Rps1k	48.3	(11)	-0.2	43.4	(7)	-0.4	9-25	11	5	10-6	14	5	1.4	1.5
Hack	II	Rps1a	48.2	(14)	2.2	46.8	(14)	1.5	9-25	10	3	10-5	11	2	1.6	1.7
Hardin	I	Rps1a	44.3	(21)	0.8	47.3	(27)	2.8 *	9-21	4	-2	10-1	5	-2	2.4	2.4
Hobbit	III	None	44.3	(19)	2.5	48.7	(4)	3.4	9-29	14	7	10-10	15	5	1.2	1.5
Hodgson 78	I	Rps1a	41.1	(30)	-1.6	42.8	(38)	-0.7	9-17	0	-6	9-26	0	-7	2.0	1.8
Hoyt	II	Rps1a	51.2	(11)	3.3	44.3	(12)	-1.6	9-25	12	5	10-6	12	3	1.6	1.6
Keller	II	Rps1c, Rps3	44.0	(12)	-0.9	46.5	(12)	0.2	9-26	11	3	10-6	11	3	2.3	2.5
Miami	II	Rps1c, Rps3	41.4	(13)	-4.0	42.1	(13)	-3.5 *L	9-21	6	-2	10-1	7	-2	2.0	2.1
Nebsoy	II	Rps1a	43.7	(22)	-0.7	43.4	(24)	-1.0	9-23	7	0	10-4	8	0	1.7	1.8
Ozzie	0	Rps1a	-	-	-	39.3	(18)	-4.2 *	-	-	-	9-19	-8	-15	-	1.2
Pella	III	Rps1a	46.5	(17)	3.8 H	49.0	(17)	3.8 *	9-30	13	6	10-8	12	5	1.9	2.0
Preston	II	None	51.4	(10)	3.6 *	47.5	(11)	1.8	9-26	13	6	10-6	12	4	2.4	2.5
Sherman	III	None	65.2	(4)	13.6 *	-	-	-	9-30	25	16	-	-	-	3.5	-
Sibley	I	Rps1a	49.0	(12)	1.9	44.6	(15)	-1.1	9-14	1	-6	9-25	0	-8	2.3	2.2

(cont'd)

* Statistically significant deviation (P<.05).

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L Variety exhibits lower than average response to highly productive environments.

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			Southern			Central			Southern			Central			South.	Central
			Yield	(n)	Dev.	Yield	(n)	Dev.	Date	H78	C79	Date	H78	C79		
Simpson	0	Rps1a	--	--	--	39.5	(16)	-3.4 *	--	--	--	9-22	4	-11	--	1.4
Vickery	II	Rps1c	43.8	(22)	-0.6	44.1	(25)	0.2	9-22	6	-1	10-2	6	-1	3.1	2.9
Weber 84	I	Rps1a	41.7	(17)	-2.5	42.4	(20)	-1.5	9-21	5	-3	9-30	5	-3	2.7	2.4
Wells II	II	Rps1c	42.1	(24)	-2.2 *	41.8	(26)	-1.7 L	9-22	5	-2	10-2	6	-1	1.7	1.6
Zane	III	None	48.6	(11)	3.7	47.5	(11)	1.6	9-30	14	6	10-8	14	5	2.4	2.4
Agripro																
AP1776	I	Rps1a	--	--	--	56.3	(5)	-1.8	--	--	--	9-18	2	-8	--	1.2
AP2021	II	Rps1a	--	--	--	48.7	(8)	1.3	--	--	--	9-28	5	-4	--	2.2
AP2190	II	Rps1a	44.9	(11)	0.0	41.8	(8)	1.1	9-24	8	0	10-5	9	0	2.1	1.6
AP3132	III	None	51.9	(7)	5.1	--	--	--	9-26	14	6	--	--	--	2.1	--
HP2530	II	Rps1a	46.5	(18)	2.0 *	45.7	(10)	1.7	9-26	9	2	10-6	8	2	2.1	2.3
Ex 1989	I	Rps1c	--	--	--	64.2	(5)	6.2	--	--	--	9-26	10	0	--	2.8
Ex 2323	II	None	51.7	(4)	0.1	--	--	--	9-16	11	2	--	--	--	1.9	--
Ex 2324	II	None	54.7	(4)	3.2	--	--	--	9-17	12	3	--	--	--	1.9	--
Asgrow																
A0949	0	Rps1c	--	--	--	41.8	(10)	-5.0 *	--	--	--	9-22	-2	-10	--	1.8
A1525	I	Rps1a	43.4	(3)	-2.2 *	43.7	(14)	-1.4	9-27	1	-8	9-26	1	-8	1.1	1.3
A1937	I	Rps1a	43.3	(20)	0.1	46.9	(24)	2.1	9-18	2	-5	9-28	3	-5	2.1	2.0
A2187	II	Rps1a	44.1	(11)	-0.8	42.9	(5)	-0.1	9-21	5	-3	9-30	4	-4	1.7	1.4
A2234	II	Rps1k	56.2	(4)	4.7	--	--	--	9-12	7	-2	--	--	--	1.4	--
A2943	II	Rps1a	49.5	(15)	5.7 *	47.5	(4)	2.2	10-2	15	7	10-11	15	6	1.9	2.4
Callahan																
1250 Brand	II	None	45.7	(17)	3.0	50.2	(15)	4.5 *	9-29	13	5	10-9	14	5	2.2	2.2
6180 Brand	I	None	45.5	(3)	-0.1	48.6	(13)	2.3	9-27	2	-7	9-27	3	-6	1.6	1.3
6262 Brand	II	Rps1a	42.4	(8)	-0.2	49.3	(11)	3.4 *	9-29	9	2	10-6	12	3	1.9	2.1
7260X Brand	II	None	52.3	(7)	5.6	52.4	(8)	5.0 *	9-25	12	5	10-5	11	3	1.8	2.4
7299X Brand	II	None	60.7	(4)	9.2	63.6	(4)	5.5 *	9-24	19	10	10-1	15	6	3.4	2.9
8200X Brand	II	None	--	--	--	61.8	(4)	3.7	--	--	--	9-20	4	-5	--	1.4
8220X Brand	II	Rps1a	--	--	--	59.7	(4)	1.6	--	--	--	9-23	8	-1	--	2.9
8244X Brd Blend	II	None	56.8	(4)	5.3	67.5	(4)	9.4 *	9-19	14	5	9-27	12	3	2.5	2.6
8252X Brand	II	None	62.9	(4)	11.4	68.0	(4)	9.9 *	9-21	16	7	9-28	13	4	2.4	2.5
8266X Brd Blend	II	Rps1a, None	58.1	(4)	6.6	64.0	(4)	5.9	9-19	14	5	9-27	12	3	2.3	2.6
Dairyland																
DSR-128	I	Rps1c	45.8	(3)	0.3	45.1	(13)	-1.2 L	9-26	0	-9	9-24	0	-9	1.0	1.3
DSR-135	I	Rps1a	45.1	(3)	-0.5	42.6	(15)	-1.6	9-27	2	-7	9-25	0	-8	1.8	1.8
DSR-155	I	Rps1c	44.0	(4)	-7.5	52.0	(5)	-6.1 *	9-6	1	-8	9-17	1	-8	1.5	1.2
DSR-171	I	None	44.9	(22)	1.2	45.2	(26)	0.2	9-22	6	-1	10-1	6	-2	2.2	2.3
DSR-204	II	Rps1c, None	47.7	(4)	-3.8	52.7	(4)	-5.5	9-11	6	-3	9-21	6	-3	1.8	2.3
DSR-252	II	None	56.6	(4)	5.0	61.9	(4)	3.8	9-17	12	3	9-25	10	1	1.9	2.0
DSR-270	II	None	61.4	(4)	9.8	--	--	--	9-22	17	8	--	--	--	1.6	--
DSR-287	II	None	50.0	(11)	5.1 *	49.4	(3)	3.8	10-1	15	7	10-10	15	6	2.3	2.8
DSR-297	III	Rps1c	47.3	(11)	2.4	45.2	(3)	-0.3	10-3	17	9	10-12	17	8	2.4	2.6
DSR-304	III	None	63.0	(4)	11.5 *	--	--	--	9-29	24	15	--	--	--	3.0	--
DSR-317	III	None	47.7	(11)	2.8	38.9	(3)	-6.6	10-4	18	10	10-12	17	8	2.9	2.7
DSR-335	III	None	58.7	(4)	7.1	--	--	--	9-30	25	16	--	--	--	3.7	--
DST-2104	II	None	57.7	(4)	6.2	57.6	(4)	-0.5	9-17	12	3	9-26	10	1	2.2	2.5
DST-2207	II	Rps1c	58.0	(4)	6.4	63.2	(4)	5.1 *	9-17	12	3	9-25	10	1	2.0	2.5
DST-2308	II	None	57.3	(4)	5.7	--	--	--	9-20	15	6	--	--	--	1.3	--
DST-2311	II	None	65.3	(4)	13.8 *	--	--	--	9-23	18	9	--	--	--	3.5	--

(cont'd)

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Brand / Entry	MG	Phyt. Res. Type	Yield (bu/A) with deviation from mean						Maturity relative to checks						Lodging Score	
			Southern			Central			Southern			Central			South.	Central
			Yield	(n)	Dev.	Yield	(n)	Dev.	Date	H78	C79	Date	H78	C79		
DeKalb-Pfizer																
CX187	I	None	-	-	-	57.0	(5)	-1.1	-	-	-	9-20	4	-6	-	1.2
CX265	II	Rps1c	42.9	(6)	0.2	47.6	(9)	0.2	10-3	9	2	10-5	12	3	2.2	2.3
CX283	II	None	46.8	(15)	3.0	49.0	(4)	3.6 *	9-29	12	5	10-9	13	4	2.6	2.7
CX326	III	Rps1c	52.7	(7)	5.9	-	-	-	9-30	18	10	-	-	-	1.9	-
Diehl Fields																
DF-101 Brand	I		48.1	(7)	1.3	50.8	(9)	2.2	9-16	4	-4	9-26	4	-5	1.6	1.5
Funk																
G3197	I	None	50.5	(5)	2.0	46.8	(10)	0.1	9-20	7	-1	9-28	4	-4	1.4	1.5
Garst																
8011	II	None	47.4	(4)	-4.2	55.2	(5)	-2.9	9-7	2	-7	9-15	-1	-10	3.1	2.9
8101	I	Rps1c, None	44.7	(4)	-6.8	51.0	(5)	-7.1 *	9-10	5	-4	9-20	4	-6	2.1	2.2
8201	II	Rps1a	53.0	(4)	1.5	55.3	(4)	-2.8	9-12	7	-2	9-20	4	-5	2.2	1.9
Golden Harvest																
H-1170 Brand	I	None	52.0	(4)	0.5	56.0	(5)	-2.1	9-10	5	-5	9-20	4	-6	2.2	1.7
H-1233 Brand	II	None	49.8	(9)	4.3	49.7	(11)	3.8 *	9-28	10	2	10-4	10	1	2.4	2.2
H-1265 Brand	II	Rps1b	48.5	(5)	0.1	46.4	(8)	-1.0	9-27	14	6	10-5	12	3	2.3	2.3
H-1285 Brand	II	None	50.2	(9)	4.7	50.6	(11)	4.7 *	10-3	15	7	10-8	14	6	2.6	2.3
Glenn-Garno																
1800	I	None	49.7	(4)	-1.8	56.9	(5)	-1.2	9-10	5	-4	9-20	4	-5	1.7	1.6
2800	II	None	58.1	(4)	6.6	-	-	-	9-23	18	9	-	-	-	2.7	-
2900	II	Rps1a	60.0	(4)	8.4	-	-	-	9-21	16	7	-	-	-	2.1	-
Great Lakes Hybrids																
GL1900 Brand	I	Rps1a	45.8	(3)	0.2	45.7	(14)	0.6 H	10-1	5	-4	10-3	8	-1	1.7	1.8
GL1999 Brand	I	Rps1a	-	-	-	49.8	(9)	1.2	-	-	-	10-2	9	0	-	2.4
GL2206 Brand	II	Rps1a	51.3	(5)	2.8	47.7	(8)	0.3	9-26	12	4	10-4	11	3	2.1	2.2
GL2537 Brand	II	None	48.3	(7)	1.5	39.1	(5)	-1.0	9-25	13	5	10-7	11	3	2.0	2.0
GL2634 Brand	II	None	48.5	(20)	4.9 *	48.6	(17)	3.4 *H	9-28	12	5	10-6	10	3	2.3	2.2
Gries																
GSF-150	II		55.0	(4)	3.4	56.8	(4)	-1.3	9-20	15	6	9-27	11	2	2.7	2.6
GSF-265	II		51.1	(4)	-0.4	54.0	(4)	-4.1	9-20	15	6	9-28	12	3	2.2	2.2
GSF-280	II		48.8	(4)	-2.8	53.3	(4)	-4.8	9-15	10	1	9-23	8	-1	1.7	1.8
Jacques																
J-201	II	Rps1a	44.0	(4)	0.3	49.2	(8)	1.7	9-22	3	-3	9-27	4	-5	1.5	2.0
J-231	II	Rps1a	46.8	(15)	3.0 *	48.0	(4)	2.6	9-26	9	1	10-5	10	1	2.0	2.4
Kaiser / Estech																
156	I	None	50.4	(4)	-1.1	61.7	(5)	3.6	9-9	4	-5	9-20	4	-5	1.7	1.4
212	II	Rps1a	50.6	(4)	-1.0	53.1	(4)	-5.0	9-16	11	2	9-23	8	-1	1.9	2.1
266	II	None	55.3	(4)	3.8	-	-	-	9-19	14	5	-	-	-	2.2	-
310	II	None	61.7	(4)	10.1	-	-	-	9-28	23	14	-	-	-	3.2	-
King Grain																
KG81	II	Rps1c	-	-	-	48.0	(8)	0.6	-	-	-	9-28	5	-4	-	1.8
KG91	II	None	-	-	-	57.5	(4)	-0.6	-	-	-	9-24	9	0	-	3.1
PS90	II	Rps1a	45.4	(4)	0.0	45.7	(15)	0.9 L	10-3	7	-2	10-3	8	1	2.1	2.3
KG4602	II	None, Rps1c	-	-	-	49.8	(4)	-8.3	-	-	-	9-25	10	1	-	1.9
KG4615	II	None	-	-	-	58.6	(4)	0.5	-	-	-	10-5	19	10	-	3.1
Lakeside States																
21 Brand	II	None	52.0	(7)	5.2	52.7	(8)	5.3	9-28	16	8	10-7	14	5	2.3	2.3
116	I	Rps1a	52.8	(5)	4.4	47.1	(10)	0.4	9-24	11	3	10-2	8	0	1.6	1.6
125-A	II	Rps1a	49.3	(7)	2.6	59.8	(5)	6.1	9-24	12	4	10-3	11	3	2.0	2.1

(cont'd)

* Statistically significant deviation (P<.05).

H Variety exhibits higher than average response to highly productive environments.

L Variety exhibits lower than average response to highly productive environments.

TABLE 2. (Continued) Performance Summary for Varieties Entered in the Michigan Trials in 1987. Phytophthora Resistance Designations Denote the Following: Type IA Resistant to Races 1, 2, and 10; Type IB Resistant to Races 1 and 3-9; Type IC Resistant to Races 1-3 and 6-10; Type 1K Resistant to Races 1-10; Type 3 Resistant to Races 1-5, 8, and 9; Type 6 Resistant to Races 1-4 and 10.

Brand / Entry	MG	Phyt. Res. Type	Yield (bu/A) with deviation from mean						Maturity relative to checks						Lodging Score	
			Southern			Central			Southern			Central			South.	Central
			Yield	(n)	Dev.	Yield	(n)	Dev.	Date	H78	C79	Date	H78	C79		
Maumee Valley																
Caliber	II	Rps1a	42.0	(12)	0.1 L	49.6	(7)	-1.7 L	9-25	5	-2	9-28	5	-3	2.5	2.5
Commander	III	None	59.7	(4)	8.1 *	-	-	-	10-2	27	18	-	-	-	3.3	-
Eagle	II	None	-	-	-	58.5	(4)	0.4	-	-	-	9-22	7	-2	-	2.3
Enterprise	II	None	39.8	(8)	-2.9	48.3	(6)	-4.2	9-30	10	3	10-4	12	3	2.1	2.1
Kodiak	III	None	47.7	(11)	2.8	47.2	(3)	1.7 H	10-2	16	8	10-11	15	6	3.2	3.4
MV-2E1	II	Rps1a	46.3	(15)	2.5	46.7	(4)	1.4	9-30	13	6	10-10	15	5	2.3	2.1
Sabre	II	None	62.0	(4)	10.5	67.0	(4)	8.9 *	9-19	14	5	9-28	13	4	1.8	2.3
Warrior	II	Rps1a	48.0	(11)	3.1	55.2	(6)	2.7	9-29	13	5	10-6	14	5	2.4	2.9
Washington V	III	Rps1a	45.9	(15)	2.1	43.4	(4)	-2.0 H	10-1	14	6	10-4	9	-1	3.2	3.2
Exp B1	II	None	-	-	-	58.6	(4)	0.5	-	-	-	9-18	2	-7	-	1.3
Northrup King																
S15-50	II	Rps1c	46.4	(3)	0.9	44.3	(14)	-0.8	9-27	1	-8	9-27	2	-6	2.1	1.8
S23-03	I	None	43.7	(15)	-0.1	44.9	(12)	-0.9 L	9-23	6	-1	10-1	7	-2	2.2	2.1
S23-12	II	None	52.9	(7)	6.1 *	50.6	(8)	3.2	9-21	8	1	9-30	6	-2	1.3	1.2
S2596	II	Rps1a	47.8	(20)	2.4 *	46.9	(9)	1.7	9-26	8	1	10-7	10	2	1.8	1.7
S27-10	II	Rps1c	45.7	(11)	0.8	42.9	(5)	-0.2 H	9-27	11	3	10-7	11	2	2.2	1.8
S29-20	II	Rps1a	58.0	(4)	6.5	-	-	-	9-24	19	10	-	-	-	2.3	-
Pioneer																
9181	I	Rps1c	-	-	-	52.9	(5)	-5.2	-	-	-	9-19	3	-6	-	1.3
9202	II	None	-	-	-	57.1	(4)	-1.0	-	-	-	9-19	3	-6	-	1.4
9251	II	Rps1a	52.3	(5)	3.9	49.8	(8)	2.3	9-25	12	4	10-3	10	2	1.5	1.4
9271	II	None	47.6	(15)	3.8 *	51.4	(10)	3.2 *	9-27	10	2	10-4	9	2	1.6	1.9
Pride																
B152	I	Rps1c, None	45.9	(3)	1.4	45.1	(14)	0.0 L	9-26	-2	-6	9-26	1	-6	1.7	1.5
B236	II	Rps1a	56.4	(4)	4.9	-	-	-	9-21	16	7	-	-	-	2.0	-
B242	II	None	49.3	(11)	4.8	48.6	(3)	3.8 *	9-28	13	5	10-9	12	5	1.9	2.0
ProSeeds (ProSoy)																
PS138	I	None	49.5	(4)	-2.1	60.4	(5)	2.4	9-9	4	-5	9-20	4	-6	1.7	1.7
PS202	II	Rps1a	49.7	(4)	-1.9	-	-	-	9-15	10	1	-	-	-	2.1	0.0
PS210	II	Rps1a	44.3	(16)	-0.3	48.9	(15)	1.0	9-22	7	0	10-1	8	0	1.8	2.0
PS246A	II	None	54.5	(4)	2.9	63.0	(4)	4.9 H	9-20	15	6	9-28	13	4	2.5	3.0
PS259	II	None	60.1	(4)	8.5	-	-	-	9-25	20	11	-	-	-	3.1	-
PS330	III	None	60.5	(4)	9.0	-	-	-	9-27	22	13	-	-	-	3.3	-
PS332	III	None	48.4	(12)	3.6 *H	-	-	-	9-30	17	10	-	-	-	3.0	-
Rupp																
RS2300	II	Rps1a	43.8	(19)	0.4	45.7	(21)	0.7	9-23	4	-2	10-2	6	-1	1.6	1.7
RS2460P	II	None	46.2	(12)	4.2 *	47.2	(15)	2.4 H	10-1	11	4	10-7	12	5	2.2	2.3
RS2500	II	None	53.2	(7)	6.5 *	-	-	-	9-27	15	7	-	-	-	1.9	-
RS2544	III	None	49.9	(11)	5.0	46.4	(3)	0.8	10-4	18	10	10-15	19	10	2.6	3.0
Exp 29726	II	None	57.5	(4)	6.0	61.7	(4)	3.6 *	9-16	11	2	9-24	9	0	1.6	2.4
Scott																
2456	II	Rps6	48.1	(11)	3.2	53.9	(3)	8.4 *	9-27	11	3	10-9	13	4	2.9	3.0
3665	III	None	63.9	(4)	12.4 *	-	-	-	9-28	23	14	-	-	-	3.8	-
Stine																
2710E Brand	II	Rps1a	52.2	(5)	3.7	49.0	(8)	1.6	9-25	11	3	10-4	11	3	2.4	2.1
2750 Brand	II	None	-	-	-	61.5	(4)	3.4	-	-	-	9-27	12	3	-	2.3
2770 Brand	II	None	59.2	(4)	7.7	-	-	-	9-20	15	6	-	-	-	2.3	-
3500 Brand	III	None	51.8	(8)	5.2	-	-	-	10-3	19	11	-	-	-	3.0	-

(cont'd)

* Statistically significant deviation (P<.05).

H Variety exhibits higher than average response to highly productive environments.

L Variety exhibits lower than average response to highly productive environments.

TABLE 2. (Continued) Performance Summary for Varieties Entered in the Michigan Trials in 1987. Phytophthora Resistance Designations Denote the Following: Type 1A Resistant to Races 1, 2, and 10; Type 1B Resistant to Races 1 and 3-9; Type 1C Resistant to Races 1-3 and 6-10; Type 1K Resistant to Races 1-10; Type 3 Resistant to Races 1-5, 8, and 9; Type 6 Resistant to Races 1-4 and 10.

Brand / Entry	MG	Phyt. Res. Type	Yield (bu/A) with deviation from mean						Maturity relative to checks						Lodging Score	
			Southern			Central			Southern			Central			South.	Central
			Yield	(n)	Dev.	Yield	(n)	Dev.	Date	H78	C79	Date	H78	C79		
Terra																
Decathlon Brand II	None		55.9	(4)	4.4	60.2	(4)	2.1	9-17	12	3	9-25	10	1	2.6	2.7
Hurdle Brand II	Rps1a		46.9	(5)	-1.6	44.1	(8)	-3.3 L	9-24	10	2	10-2	9	1	1.7	1.5
Olympian Brand II	None		48.3	(7)	1.5	49.7	(5)	-4.0	9-25	12	5	10-4	12	4	2.1	2.0
Runner Brand I	Rps1a		45.7	(5)	-2.8	42.7	(10)	-4.0	9-20	6	-2	9-30	6	-2	2.4	2.0
Sprint Brand II	None		50.6	(7)	3.8	56.8	(5)	3.1	9-29	16	9	10-6	15	6	2.7	2.7
275E	II	None	58.5	(4)	7.0	62.7	(4)	4.6 H	9-25	20	11	10-1	16	7	2.6	3.2
Voris																
V207	II	Rps1a	45.0	(19)	-0.2	46.2	(23)	1.2	9-21	4	-3	10-2	5	-2	2.2	2.2
V311	III	None	45.7	(15)	1.9	48.1	(12)	2.3	10-1	14	6	10-9	15	6	2.9	2.7
Exp 2624	II	Rps1a	--	--	--	62.5	(4)	4.4	--	--	--	9-26	11	2	--	2.5
Exp 2801	II	None	54.7	(4)	3.2	--	--	--	9-19	14	5	--	--	--	2.7	--

* Statistically significant deviation (P<.05).

H Variety exhibits higher than average response to highly productive environments.

L Variety exhibits lower than average response to highly productive environments.

TABLE 3. Southern Michigan.

Brand	Entry	Yield (bu/A)										Maturity (days)	Height (in)	Lodging Score
		Entire Southern Region		Southeast (Lenawee Co.)		Southwest (St. Joseph Co.)		Far Southwest (Berrien Co.)		South Central (Ingham Co.)				
		1987	Avg. (n)	1987	Avg. (n)	1987	Avg. (n)	1987	Avg. (n)	1987	Avg. (n)			
Public	Amcor	53.3	44.0 (21)	50.8	50.8 (8)	46.6	34.0 (5)	62.0	42.8 (4)	54.1	44.2 (4)	9	47	4.0
Public	Beeson 80	27.2	36.0 (21)	10.6	40.7 (8)	40.7	29.9 (5)	39.7	38.6 (4)	17.8	31.9 (4)	8	37	2.4
Public	BSR 101	54.5	48.6 (15)	53.6	51.4 (7)	46.9	44.0 (3)	66.2	48.6 (2)	51.4	46.5 (3)	-4	41	2.0
Public	BSR 201	53.8	48.9 (18)	49.0	51.0 (10)	49.2	42.9 (3)	60.8	46.4 (2)	56.3	49.4 (3)	6	39	3.1
Public	Century	54.0	46.0 (22)	52.9	52.2 (9)	46.8	37.2 (5)	61.7	44.2 (4)	54.7	44.7 (4)	3	43	2.0
Public	Century 84	57.3	46.7 (13)	54.7	49.8 (5)	51.9	41.1 (3)	65.6	48.8 (2)	56.9	46.0 (3)	4	40	1.6
Public	Corsoy	50.7	42.7 (30)	48.1	47.4 (12)	39.8	34.1 (7)	67.5	43.4 (5)	47.4	42.6 (6)	1	44	3.4
Public	Corsoy 79 †	48.4	43.5 (28)	45.0	51.5 (11)	40.0	31.7 (7)	59.7	41.6 (5)	48.9	44.6 (5)	9-16	44	3.2
Public	Elgin	60.2	47.8 (19)	53.8	51.3 (8)	54.1	42.9 (4)	69.1	45.0 (3)	63.6 * 47.6 (4)	2	36	2.6	
Public	Hack	55.4	48.2 (14)	51.1	50.9 (6)	47.9	44.7 (3)	65.0	47.5 (2)	57.8	46.9 (3)	4	39	1.9
Public	Hardin	51.4	44.3 (21)	48.0	51.1 (8)	39.6	35.9 (5)	69.1	41.4 (4)	48.7	44.2 (4)	-3	44	3.4
Public	Hobbit	60.3	44.3 (19)	56.3	50.6 (6)	51.3	33.9 (6)	73.3 * 46.4 (3)	60.4 * 48.7 (4)	9	28	1.2		
Public	Hodgson 78	46.3	41.1 (30)	45.2	47.9 (11)	37.9	32.5 (8)	57.7	38.9 (6)	44.4	42.4 (5)	-10	39	2.1
Public	Hoyt	56.6	51.2 (11)	60.1 * 54.6 (6)	58.2 * 48.9 (2)	64.4	--	64.4	--	43.6	36.6 (2)	5	26	1.8
Public	Keller	53.0	44.0 (12)	44.4	45.1 (4)	44.1	36.3 (3)	65.0	48.8 (2)	58.6	47.1 (3)	4	38	2.5
Public	Miami	47.5	41.4 (13)	42.2	44.6 (5)	38.9	32.6 (3)	63.9	47.1 (2)	44.9	40.9 (3)	-1	41	2.5
Public	Nebsoy	52.4	43.7 (22)	51.4	47.8 (9)	43.0	34.0 (5)	59.5	41.1 (4)	55.7	49.2 (4)	2	38	2.1
Public	Pella	66.8 * 46.5 (17)	64.0 * 52.8 (5)	57.4	35.8 (5)	75.4 * 47.3 (3)	70.4 * 51.3 (4)	10	41	2.5				
Public	Preston	58.2	51.4 (10)	54.0	52.0 (5)	56.4	46.1 (2)	62.6	42.2 (4)	59.6	49.6 (2)	7	38	2.2
Public	Sherman	65.1 * --	--	59.6 * --	--	66.3 * --	--	71.9 * --	--	62.8 * --	--	13	38	3.5
Public	Sibley	48.5	49.0 (12)	46.3	51.4 (7)	36.8	35.1 (2)	63.9	--	46.8	47.0 (2)	-8	39	2.8
Public	Vickery	49.0	43.8 (22)	45.8	50.9 (9)	41.0	33.2 (5)	61.5	42.2 (4)	47.6	42.4 (4)	-2	44	3.8
Public	Weber 84	46.6	41.7 (17)	41.8	46.2 (6)	35.8	34.3 (4)	67.0	40.2 (3)	41.8	43.5 (4)	-4	41	2.7
Public	Wells II	49.0	42.1 (24)	45.5	46.5 (9)	43.0	34.3 (6)	58.1	42.9 (5)	49.6	43.0 (4)	-1	42	2.1
Public	Zane	61.0 * 48.6 (11)	58.2 * 52.5 (3)	58.3 * 45.6 (3)		68.6	53.4 (2)	58.9	44.4 (3)			11	42	3.0
Agripro	AP2190	51.9	44.9 (11)	49.0	51.1 (3)	46.1	39.3 (3)	57.8	41.3 (2)	54.8	46.7 (3)	-2	38	2.1
Agripro	AP3132	60.2	51.9 (7)	55.4	53.8 (2)	55.9	45.9 (2)	69.9	--	59.6	46.9 (2)	6	38	2.2
	Test mean	55.58		53.04		49.84		65.11		53.60		3.40	39.70	2.45
	LSD.05	5.99		8.24		8.80		9.28		10.43		2.70	2.70	0.64

† Check variety used to calculate deviation from standard maturity.

* Not significantly different from the highest yield within that column.

TABLE 3. (Continued) Southern Michigan.

Brand	Entry	Yield (bu/A)										Maturity (days)	Height (in)	Lodging Score
		Entire Southern Region		Southeast (Lenawee Co.)		Southwest (St. Joseph Co.)		Far Southwest (Berrien Co.)		South Central (Ingham Co.)				
		1987 Avg.	(n)	1987 Avg.	(n)	1987 Avg.	(n)	1987 Avg.	(n)	1987 Avg.	(n)			
Agripro	Ex 2323	51.7	--	49.1	--	45.1	--	60.0	--	52.5	--	-1	37	1.9
Agripro	Ex 2324	54.7	--	51.1	--	46.1	--	64.2	--	57.4	--	1	37	1.9
Agripro	HP2530	55.4	46.5 (18)	51.0	50.7 (6)	52.4	40.1 (4)	62.0	43.3 (4)	56.2	49.8 (4)	2	37	2.0
Asgrow	A1937	46.2	43.3 (20)	47.8	50.5 (7)	33.5	34.8 (5)	60.4	41.3 (4)	43.0	43.3 (4)	-7	42	2.8
Asgrow	A2187	49.7	44.1 (11)	48.9	47.6 (3)	37.5	38.0 (3)	62.5	48.1 (2)	49.8	44.0 (3)	-4	40	1.9
Asgrow	A2234	56.2	--	56.3	--	48.5	--	61.4	--	58.7	--	-4	35	1.3
Asgrow	A2943	65.2 *	49.5 (15)	65.7 *	55.4 (4)	60.3 *	45.3 (4)	72.6 *	49.9 (3)	62.4 *	47.5 (4)	11	40	2.6
Callahan	1250 Brand	60.7	45.7 (17)	52.7	50.1 (5)	59.0 *	38.6 (5)	69.1	45.3 (3)	62.1 *	49.2 (4)	9	41	3.0
Callahan	7260X Brand	59.0	52.3 (7)	57.2	56.1 (2)	51.5	43.4 (2)	70.1	--	57.2	48.6 (2)	5	35	2.3
Callahan	7299X Brand	60.7	--	55.8	--	60.7 *	--	68.3	--	58.0	--	8	43	3.4
Callahan	8244X Brd Blend	56.8	--	52.4	--	55.1	--	61.4	--	58.3	--	3	41	2.5
Callahan	8252X Brand	62.9 *	--	55.1	--	56.3	--	72.1 *	--	68.1 *	--	5	38	2.4
Callahan	8266X Brd Blend	58.1	--	57.6 *	--	56.4	--	64.2	--	54.3	--	3	40	2.2
Dairyland	DSR-155	44.0	--	41.4	--	38.2	--	53.7	--	42.8	--	-10	37	1.5
Dairyland	DSR-171	54.4	44.9 (22)	54.6	50.3 (9)	49.0	39.2 (5)	65.7	42.3 (4)	48.2	42.5 (4)	3	41	2.7
Dairyland	DSR-204	47.7	--	47.7	--	37.6	--	55.8	--	49.8	--	-5	35	1.7
Dairyland	DSR-252	56.5	--	52.9	--	51.2	--	69.1	--	53.0	--	1	38	1.9
Dairyland	DSR-270	61.4 *	--	62.7 *	--	54.5	--	68.4	--	59.9	--	5	33	1.6
Dairyland	DSR-287	63.5 *	50.0 (11)	62.5 *	53.3 (3)	58.0 *	45.6 (3)	71.4	52.8 (2)	62.3 *	49.4 (3)	9	43	2.8
Dairyland	DSR-297	59.4	47.3 (11)	62.9 *	54.2 (3)	50.7	39.6 (3)	69.8	51.8 (2)	54.1	45.2 (3)	12	43	3.1
Dairyland	DSR-304	63.0 *	--	59.5 *	--	57.7 *	--	66.7	--	68.1 *	--	13	40	3.1
Dairyland	DSR-317	60.3	47.7 (11)	60.5 *	55.1 (3)	56.5	45.4 (3)	68.0	53.1 (2)	56.3	38.9 (3)	15	45	3.3
Dairyland	DSR-335	58.7	--	54.6	--	59.7 *	--	61.3	--	59.0	--	14	42	3.7
Dairyland	DST-2104	57.7	--	52.6	--	49.8	--	71.1	--	57.4	--	1	41	2.2
Dairyland	DST-2207	58.0	--	55.6	--	50.9	--	63.7	--	61.7 *	--	1	41	1.9
Dairyland	DST-2308	57.3	--	58.2 *	--	53.6	--	64.7	--	52.6	--	4	34	1.3
Dairyland	DST-2311	65.3 *	--	61.5 *	--	57.3	--	74.1 *	--	68.4 *	--	7	37	3.5
DeKalb-Pfizer	CX283	59.2	46.8 (15)	55.3	52.3 (4)	51.8	39.5 (4)	70.0	46.5 (3)	59.7	48.9 (4)	8	43	3.2
DeKalb-Pfizer	CX326	63.5 *	52.7 (7)	62.4 *	57.0 (2)	57.8 *	46.2 (2)	76.4 *	--	57.2	42.9 (2)	11	37	2.1
Diehl Fields	DF-101 Brand	49.9	48.1 (7)	49.5	53.3 (2)	42.3	39.7 (2)	56.4	--	51.5	46.9 (2)	-6	39	1.5
Funk	G3197	53.5	50.5 (5)	55.7	--	42.4	--	60.5	--	55.3	46.8 (2)	-3	35	1.4
Garst	8011	47.4	--	44.4	--	37.5	--	58.0	--	49.7	--	-9	37	3.1
Garst	8101	44.8	--	42.9	--	37.7	--	58.5	--	39.8	--	-5	41	2.1
Garst	8201	53.0	--	51.7	--	45.2	--	61.4	--	53.7	--	-4	41	2.2
Glenn-Garno	1800	49.7	--	49.4	--	45.6	--	54.1	--	49.8	--	-6	39	1.7
Glenn-Garno	2800	58.1	--	57.9 *	--	49.5	--	66.2	--	58.8	--	7	41	2.7
Glenn-Garno	2900	60.0	--	53.7	--	55.4	--	65.7	--	65.0 *	--	5	40	2.1
Golden Harvest	H-1170 Brand	52.0	--	56.3	--	41.2	--	58.3	--	52.3	--	-6	41	2.2
Golden Harvest	H-1233 Brand	58.7	49.8 (9)	49.3	50.0 (2)	49.6	45.0 (2)	73.2 *	53.3 (2)	62.8 *	50.4 (3)	4	38	2.7
Golden Harvest	H-1265 Brand	51.4	48.5 (5)	52.4	--	41.1	--	65.4	--	46.8	41.8 (2)	5	38	2.5
Golden Harvest	H-1285 Brand	61.0 *	50.2 (9)	53.4	52.2 (2)	57.9 *	47.4 (2)	72.1 *	55.4 (2)	60.7 *	47.1 (3)	10	41	3.1
GLH	GL2206 Brand	53.7	51.3 (5)	49.9	--	50.6	--	62.9	--	51.4	46.4 (2)	2	45	2.2
GLH	GL2537 Brand	52.6	48.3 (7)	51.3	51.9 (2)	50.2	42.8 (2)	60.6	--	48.5	43.8 (2)	4	38	2.3
GLH	GL2634 Brand	60.3	48.5 (20)	55.0	54.0 (7)	56.3	39.2 (5)	74.1 *	50.5 (4)	55.9	48.4 (4)	10	39	3.1
Gries	GSF-150	55.0	--	55.0	--	51.9	--	60.7	--	52.2	--	4	38	2.7
Gries	GSF-265	51.1	--	53.8	--	47.4	--	58.4	--	44.9	--	4	36	2.2
Gries	GSF-280	48.7	--	45.8	--	46.1	--	62.7	--	40.4	--	-1	37	1.7
Jacques	J-231	55.0	46.8 (15)	52.0	53.5 (4)	49.7	40.5 (4)	67.5	44.8 (3)	51.0	47.9 (4)	1	40	2.1
Kaiser / Estech	156	50.4	--	52.9	--	40.9	--	58.0	--	49.9	--	-7	41	1.7
Kaiser / Estech	212	50.6	--	53.4	--	48.4	--	53.6	--	46.8	--	0	40	1.9
Kaiser / Estech	266	55.3	--	47.0	--	51.9	--	72.1 *	--	50.3	--	3	38	2.2
Kaiser / Estech	310	61.7 *	--	56.4	--	61.2 *	--	69.3	--	59.8	--	12	41	3.2
Lakeside States	21 Brand	59.2	52.0 (7)	53.5	53.8 (2)	52.2	45.5 (2)	79.3 *	--	51.6	43.0 (2)	8	39	2.7
Lakeside States	116	56.7	52.8 (5)	48.5	--	51.0	--	68.1	--	59.3	48.3 (2)	2	41	1.8
Lakeside States	125-A	55.2	49.3 (7)	54.1	52.2 (2)	46.7	38.6 (2)	67.6	--	52.4	47.9 (2)	4	43	2.1
Maumee Valley	Commander	59.6	--	63.5 *	--	56.0	--	58.6	--	60.5 *	--	16	42	3.3
Maumee Valley	Kodiak	59.0	47.7 (11)	59.0 *	52.6 (3)	55.2	41.6 (3)	64.5	50.1 (2)	57.3	47.2 (3)	11	41	3.6
Maumee Valley	MV-2E1	58.4	46.3 (15)	54.7	51.2 (4)	50.0	40.7 (4)	70.4	46.8 (3)	58.6	46.7 (4)	9	41	3.0
Test mean		55.58		53.04		49.84		65.11		53.60		3.40	39.70	2.45
LSD.05		5.99		8.24		8.80		9.28		10.43		2.70	2.70	0.64

(cont'd)

* Not significantly different from the highest yield within that column.

TABLE 3. (Continued) Southern Michigan.

Brand	Entry	Yield (bu/A)					Maturity (days)	Height (in)	Lodging Score
		Entire Southern Region	Southeast (Lenawee Co.)	Southwest (St. Joseph Co.)	Far Southwest (Berrien Co.)	South Central (Ingham Co.)			
		1987 Avg. (n)	1987 Avg. (n)	1987 Avg. (n)	1987 Avg. (n)	1987 Avg. (n)			
Maumee Valley	Sabre	62.0 * --	57.5 * --	55.4 --	70.1 --	65.0 * --	3	39	1.8
Maumee Valley	Warrior	58.9 48.0 (11)	54.3 52.1 (3)	56.7 42.0 (3)	68.0 52.3 (2)	56.7 46.9 (3)	6	40	2.8
Maumee Valley	Washington V	60.5 45.9 (15)	52.5 52.0 (4)	60.3 * 43.3 (4)	66.1 44.6 (3)	63.0 * 43.3 (4)	12	46	3.8
Northrup King	S23-03	49.6 43.7 (15)	53.0 50.3 (4)	38.9 40.3 (4)	57.7 41.2 (3)	48.8 42.4 (4)	-3	39	2.3
Northrup King	S23-12	57.2 52.9 (7)	57.0 55.5 (2)	56.6 48.2 (2)	64.3 --	51.1 49.3 (2)	-1	43	1.3
Northrup King	S2596	56.4 47.8 (20)	49.9 52.8 (8)	49.0 41.4 (4)	64.3 45.0 (4)	62.4 * 46.8 (4)	1	36	1.7
Northrup King	S27-10	57.7 45.7 (11)	54.3 48.9 (3)	49.3 40.6 (3)	67.4 47.0 (2)	59.8 46.8 (3)	5	37	2.5
Northrup King	S29-20	58.0 --	54.3 --	57.1 --	73.9 * --	46.8 --	7	42	2.3
Pioneer	9251	56.6 52.3 (5)	54.5 --	53.0 --	67.1 --	51.8 43.5 (2)	2	39	1.6
Pioneer	9271	59.5 47.6 (15)	57.4 54.0 (4)	53.3 43.1 (4)	72.2 * 43.5 (3)	55.2 48.7 (4)	5	36	1.9
Pride	B236	56.4 --	58.2 * --	51.4 --	62.7 --	53.3 --	5	41	2.0
Pride	B242	59.9 49.3 (11)	53.5 53.8 (3)	48.0 40.6 (3)	80.9 * 56.9 (2)	56.9 48.6 (3)	5	44	2.2
Prosoy	PS138	49.5 --	53.4 --	38.4 --	53.1 --	52.9 --	-7	38	1.7
Prosoy	PS202	49.7 --	47.6 --	47.4 --	62.1 --	41.7 --	-1	37	2.1
Prosoy	PS210	51.9 44.3 (16)	52.1 51.9 (6)	44.2 35.8 (4)	64.7 --	46.8 47.1 (3)	-1	42	1.6
Prosoy	PS246A	54.5 --	52.6 --	41.0 --	67.6 --	56.7 --	4	39	2.5
Prosoy	PS259	60.1 --	58.5 * --	55.1 --	67.1 --	59.6 --	9	42	3.1
Prosoy	PS330	60.5 --	62.0 * --	57.1 --	67.7 --	55.3 --	11	42	3.3
Prosoy	PS332	59.0 48.4 (12)	58.5 * 57.3 (4)	57.3 35.7 (3)	61.0 46.8 (3)	59.4 52.0 (2)	12	46	4.0
Rupp	Exp 29726	57.5 --	53.9 --	48.7 --	68.8 --	58.6 --	0	37	1.5
Rupp	RS2500	60.7 53.2 (7)	59.7 * 56.6 (2)	54.7 45.4 (2)	70.0 --	58.3 49.3 (2)	7	36	2.1
Rupp	RS2544	63.5 * 49.9 (11)	59.3 * 51.7 (3)	57.3 47.8 (3)	70.7 55.9 (2)	66.6 * 46.4 (3)	14	45	3.0
Scott	2456	56.8 48.1 (11)	48.1 48.8 (3)	54.8 42.4 (3)	60.3 46.8 (2)	64.1 * 53.9 (3)	5	41	3.2
Scott	3665	63.9 * --	62.3 * --	56.6 --	71.9 * --	64.8 * --	12	42	3.8
Stine	2710E Brand	55.1 52.2 (5)	49.4 --	55.1 --	63.5 --	52.2 46.4 (2)	2	41	2.5
Stine	2770 Brand	59.2 --	58.7 * --	58.8 * --	67.3 --	52.1 --	4	40	2.3
Stine	3500 Brand	62.3 * 51.8 (8)	58.3 * 51.8 (2)	60.6 * 51.5 (2)	74.1 * 54.4 (2)	56.0 49.4 (2)	13	42	3.3
Terra	275E	58.5 --	55.2 --	58.8 * --	64.3 --	55.7 --	9	40	2.6
Terra	Decathlon Brand	55.9 --	55.4 --	50.3 --	67.2 --	50.8 --	1	38	2.5
Terra	Hurdle Brand	49.2 46.9 (5)	43.6 --	48.9 --	60.0 --	44.2 40.9 (2)	0	39	1.8
Terra	Olympian Brand	54.8 48.3 (7)	55.8 54.5 (2)	49.6 42.7 (2)	69.8 --	43.8 36.9 (2)	3	39	2.3
Terra	Runner Brand	47.5 45.7 (5)	45.0 --	40.1 --	57.4 --	47.6 42.9 (2)	-4	39	2.5
Terra	Sprint Brand	57.2 50.6 (7)	55.6 53.9 (2)	47.0 42.3 (2)	63.1 --	63.3 * 49.2 (2)	9	42	3.4
Voris	Exp 2801	54.7 --	49.9 --	41.0 --	70.7 --	57.2 --	3	41	2.7
Voris	V207	47.6 45.0 (19)	44.3 48.8 (8)	44.0 35.6 (4)	55.2 43.4 (3)	47.1 48.1 (4)	-4	42	2.7
Voris	V311	55.2 45.7 (15)	57.3 52.8 (4)	53.4 40.3 (4)	62.1 45.0 (3)	47.9 44.5 (4)	9	42	3.1
	Test mean	55.58	53.04	49.84	65.11	53.60	3.40	39.70	2.45
	CV	7.8%	9.3%	10.6%	8.5%	11.1%	10.1%	4.9%	18.9%
	LSD.05	5.99	8.24	8.80	9.28	10.43	2.70	2.70	0.64

* Not significantly different from the highest yield within that column.

TABLE 4. Central Michigan.

Brand	Entry	Yield (bu/A)					Maturity (days)	Height (in)	Lodging Score
		Entire Central Region	South Central (Ingham Co.)	Central (Saginaw Co.)	East Central (Sanilac Co.)	East Central (Macomb Co.)			
		1987 Avg. (n)	1987 Avg. (n)	1987 Avg. (n)	1987 Avg. (n)	1987 Avg. (n)			
Public	Ancor	59.8 45.7 (21)	54.1 44.2 (4)	50.7 43.4 (9)	64.5 * 49.0 (8)	70.1 49.0 (8)	7	48	3.7
Public	Beeson 80	27.2 37.1 (23)	17.8 31.9 (4)	16.9 40.6 (10)	38.0 35.6 (9)	36.1 35.6 (9)	5	37	2.6
Public	BSR 101	59.2 46.6 (18)	51.4 46.5 (3)	55.3 * 44.7 (7)	63.6 * 50.1 (5)	66.5 50.1 (5)	1	41	3.1
Public	BSR 201	61.5 * 47.0 (16)	56.3 49.4 (3)	60.0 * 44.4 (8)	56.4 49.9 (5)	73.4 49.9 (5)	4	41	3.4
Public	Century	57.3 44.8 (24)	54.7 44.7 (4)	51.0 44.0 (11)	57.0 * 45.3 (9)	66.4 45.3 (9)	4	43	2.8
Public	Century 84	63.9 * 48.3 (13)	56.9 46.0 (3)	60.6 * 45.8 (5)	64.7 * 52.3 (5)	73.4 52.3 (5)	5	42	2.4
Public	Corsoy	51.7 40.9 (33)	47.4 42.6 (6)	43.8 40.4 (15)	56.1 40.8 (10)	59.5 40.8 (10)	-1	45	3.0
	Test mean	57.74	53.60	53.19	56.22	69.36	23.8	40.2	2.34
	LSD.05	7.07	10.43	11.64	13.95	11.04	3.0	3.7	0.68

* Not significantly different from the highest yield within that column.

TABLE 4. (Continued) Central Michigan.

Brand	Entry	Yield (bu/A)					Maturity (days)	Height (in)	Lodging Score					
		Entire Central Region		South Central (Ingham Co.)		Central (Saginaw Co.)				East Central (Sanilac Co.)	East Central (Macomb Co.)			
		1987 Avg.	(n)	1987 Avg.	(n)	1987 Avg.				(n)	1987 Avg.	(n)		
Public	Corsoy 79 †	53.7	45.2 (35)	48.9	44.6 (5)	47.4	44.1 (15)	51.4	47.3 (11)	66.9	47.3 (11)	9-25	44	3.0
Public	Dassel	49.2	41.3 (11)	--	--	48.6	45.1 (3)	47.3	37.9 (4)	51.6	37.9 (4)	-16	30	1.5
Public	Dawson	50.1	42.2 (23)	--	--	42.1	39.7 (8)	50.5	45.1 (7)	57.6	45.1 (7)	-19	37	2.1
Public	Elgin	65.6 *	48.2 (20)	63.6 *	47.6 (4)	64.7 *	48.6 (9)	60.3 *	50.5 (6)	73.8	50.5 (6)	2	38	3.1
Public	Hack	59.3	46.8 (14)	57.8	46.9 (3)	49.1	43.3 (6)	57.2 *	50.8 (5)	73.2	50.8 (5)	2	39	2.0
Public	Hardin	56.1	47.3 (27)	48.7	44.2 (4)	50.4	48.9 (10)	58.7 *	48.8 (9)	66.5	48.8 (9)	-1	44	3.1
Public	Hodgson 78	52.1	42.8 (38)	44.4	42.4 (5)	48.4	41.7 (16)	57.9 *	44.5 (12)	57.7	44.5 (12)	-9	40	1.8
Public	Hoyt	53.6	44.3 (12)	43.6	36.6 (2)	53.7	43.8 (6)	54.5	48.8 (4)	62.6	48.8 (4)	4	25	1.3
Public	Keller	59.5	46.5 (12)	58.6	47.1 (3)	53.2	43.3 (4)	55.9	48.7 (5)	70.3	48.7 (5)	3	40	3.1
Public	Miami	50.3	42.1 (13)	44.9	40.9 (3)	50.4	41.5 (5)	48.2	43.4 (5)	57.7	43.4 (5)	-3	42	2.4
Public	Nebsoy	57.3	43.4 (24)	55.7	49.2 (4)	50.4	42.9 (11)	58.6 *	41.4 (9)	64.7	41.4 (9)	2	40	1.9
Public	Pella	67.0 *	49.0 (17)	70.4 *	51.3 (4)	61.7 *	43.0 (6)	66.8 *	52.8 (7)	69.1	52.8 (7)	7	43	2.7
Public	Preston	63.2 *	47.5 (11)	59.6	49.6 (2)	59.6 *	44.4 (5)	59.0 *	50.3 (4)	74.7	50.3 (4)	6	42	2.8
Public	Sibley	51.2	44.6 (15)	46.8	47.0 (2)	42.9	43.0 (7)	52.0	46.4 (4)	63.1	46.4 (4)	-9	37	2.1
Public	Vickery	54.7	44.1 (25)	47.6	42.4 (4)	49.5	43.2 (12)	57.1 *	46.0 (9)	64.4	46.0 (9)	-1	46	3.6
Public	Weber 84	51.6	42.4 (20)	41.8	43.5 (4)	45.1	40.6 (7)	48.4	44.1 (6)	70.9	44.1 (6)	-3	41	2.3
Public	Wells II	51.1	41.8 (26)	49.6	43.0 (4)	49.1	43.2 (12)	49.3	39.7 (10)	56.3	39.7 (10)	-2	45	2.1
Public	Zane	61.4 *	47.5 (11)	58.9	44.4 (3)	51.9	44.3 (3)	65.2 *	51.3 (5)	69.8	51.3 (5)	7	41	3.2
Agripro	AP1776	56.1	56.3 (5)	52.5	--	57.4 *	--	52.3	57.3 (2)	62.4	57.3 (2)	-9	37	1.2
Agripro	AP2021	58.9	48.7 (8)	50.2	43.5 (2)	52.8	42.5 (2)	59.5 *	54.3 (4)	73.2	54.3 (4)	-6	42	2.4
Agripro	Ex 1989	61.5 *	64.2 (5)	47.3	--	53.1	--	66.6 *	72.7 (2)	78.9 *	72.7 (2)	0	41	2.9
Asgrow	A0949	49.5	41.8 (10)	49.6	42.7 (2)	39.9	36.8 (2)	45.2	43.7 (4)	63.3	43.7 (4)	-14	39	2.3
Asgrow	A1525	57.0	43.7 (14)	52.2	43.4 (3)	52.0	44.9 (3)	55.7	45.2 (5)	68.1	45.2 (5)	-10	39	1.1
Asgrow	A1937	55.5	46.8 (24)	43.0	43.3 (4)	51.5	46.3 (8)	60.6 *	49.8 (8)	67.0	49.8 (8)	-9	40	2.2
Callahan	1250 Brand	67.1 *	50.2 (15)	62.1 *	49.2 (4)	55.2 *	46.0 (5)	63.8 *	54.5 (6)	87.3 *	54.5 (6)	-8	41	3.1
Callahan	6180 Brand	59.1	48.6 (13)	51.5	45.5 (3)	60.3 *	49.7 (3)	49.1	49.5 (5)	75.6	49.5 (5)	-8	38	1.2
Callahan	6262 Brand	61.6 *	49.3 (11)	49.6	45.7 (3)	57.8 *	45.6 (3)	60.6 *	53.7 (5)	78.6 *	53.7 (5)	3	40	2.7
Callahan	7260X Brand	64.4 *	52.4 (8)	57.2	48.6 (2)	66.6 *	49.8 (2)	58.6 *	55.6 (4)	75.3	55.6 (4)	3	37	3.0
Callahan	7299X Brand	63.6 *	--	58.0	--	56.0 *	--	62.6 *	70.2 (2)	77.9 *	70.2 (2)	6	43	2.9
Callahan	8200X Brand	61.8 *	--	53.4	--	55.7 *	--	61.2 *	69.1 (2)	77.0 *	69.1 (2)	-5	40	1.4
Callahan	8220X Brand	59.7	--	55.5	--	56.4 *	--	54.3	63.4 (2)	72.6	63.4 (2)	-1	39	2.8
Callahan	8244X Brd Blend	67.5 *	--	58.3	--	61.8 *	--	70.8 *	75.0 (2)	79.2 *	75.0 (2)	3	43	2.6
Callahan	8252X Brand	68.0 *	--	68.1 *	--	62.6 *	--	66.6 *	70.6 (2)	74.6	70.6 (2)	3	42	2.5
Callahan	8266X Brd Blend	64.0 *	--	54.3	--	61.4 *	--	60.0 *	70.2 (2)	80.4 *	70.2 (2)	3	42	2.6
Dairyland	DSR-128	53.6	45.1 (13)	52.0	45.8 (3)	48.1	40.5 (3)	51.9	46.5 (5)	62.4	46.5 (5)	-10	37	1.6
Dairyland	DSR-135	52.7	42.6 (15)	46.0	45.1 (3)	46.6	38.8 (3)	54.3	45.2 (5)	63.9	45.2 (5)	-10	37	2.3
Dairyland	DSR-155	50.7	52.0 (5)	42.8	--	44.5	--	48.7	57.7 (2)	66.7	57.7 (2)	-10	37	1.2
Dairyland	DSR-171	52.2	45.2 (26)	48.2	42.5 (4)	49.4	45.7 (10)	47.8	46.4 (8)	63.5	46.4 (8)	1	41	2.7
Dairyland	DSR-204	52.6	--	49.8	--	50.8	--	38.0	55.0 (2)	72.0	55.0 (2)	-4	35	2.3
Dairyland	DSR-252	61.9 *	--	53.0	--	55.8 *	--	65.0 *	69.4 (2)	73.9	69.4 (2)	1	37	2.0
Dairyland	DST-2104	57.6	--	57.4	--	54.5	--	50.6	59.3 (2)	68.0	59.3 (2)	1	41	2.4
Dairyland	DST-2207	63.2 *	--	61.7 *	--	54.7	--	62.1 *	68.2 (2)	74.3	68.2 (2)	1	42	2.5
DeKalb-Pfizer	CX187	55.5	57.0 (5)	47.6	--	48.8	--	50.5	62.8 (2)	75.0	62.8 (2)	-7	38	1.3
DeKalb-Pfizer	CX265	58.9	47.6 (9)	53.9	44.5 (3)	57.0 *	46.6 (2)	59.9 *	50.4 (4)	64.7	50.4 (4)	3	44	2.7
Diehl Fields	DF-101 Brand	57.4	50.8 (9)	51.5	46.9 (2)	62.5 *	54.5 (2)	41.2	48.9 (4)	74.5	48.9 (4)	-8	38	1.7
Funk	G3197	58.9	46.8 (10)	55.3	46.8 (2)	59.1 *	48.1 (2)	51.0	47.3 (4)	70.1	47.3 (4)	-5	35	1.6
Garst	8011	53.7	55.2 (5)	49.7	--	46.7	--	54.4	59.1 (2)	63.9	59.1 (2)	-12	39	3.0
Garst	8101	50.4	51.0 (5)	39.8	--	47.6	--	55.0	57.0 (2)	59.1	57.0 (2)	-7	42	2.4
Garst	8201	55.3	--	53.7	--	51.0	--	59.2 *	58.2 (2)	57.2	58.2 (2)	-5	41	1.9
Glenn-Garno	1800	56.1	56.9 (5)	49.8	--	51.7	--	49.8	61.4 (2)	73.0	61.4 (2)	-6	39	1.8
Golden Harvest	H-1170 Brand	55.8	56.0 (5)	52.3	--	52.3	--	48.0	59.3 (2)	70.7	59.3 (2)	-6	39	1.8
Golden Harvest	H-1233 Brand	64.1 *	49.7 (11)	62.8 *	50.4 (3)	50.4	42.2 (3)	65.7 *	53.8 (5)	77.7 *	53.8 (5)	3	41	3.0
Golden Harvest	H-1265 Brand	55.4	46.4 (8)	46.8	41.8 (2)	64.6 *	47.6 (2)	54.0	48.0 (4)	56.5	48.0 (4)	3	40	2.5
Golden Harvest	H-1285 Brand	64.9 *	50.6 (11)	60.7 *	47.1 (3)	52.8	44.0 (3)	67.7 *	56.7 (5)	78.5 *	56.7 (5)	7	43	2.9
GLH	GL1900 Brand	60.4	45.7 (14)	49.2	45.8 (3)	57.4 *	43.8 (3)	57.6 *	48.5 (5)	77.6 *	48.5 (5)	-2	37	2.2
GLH	GL1999 Brand	57.7	49.8 (9)	49.4	44.1 (2)	57.3 *	45.4 (2)	62.4 *	51.3 (4)	61.8	51.3 (4)	0	40	2.6
GLH	GL2206 Brand	55.1	47.7 (8)	51.4	46.4 (2)	49.1	39.7 (2)	60.4 *	52.4 (4)	59.4	52.4 (4)	1	46	2.4
GLH	GL2634 Brand	61.9 *	48.6 (17)	55.9	48.4 (4)	52.6	44.0 (6)	58.7 *	52.7 (7)	80.2 *	52.7 (7)	6	39	2.7
Gries	GSF-150	56.8	--	52.2	--	57.1 *	--	56.7	58.9 (2)	61.2	58.9 (2)	2	38	2.6
Gries	GSF-265	54.0	--	44.9	--	54.9	--	58.8 *	58.0 (2)	57.3	58.0 (2)	3	37	2.2
Gries	GSF-280	53.3	--	40.4	--	49.5	--	57.8 *	61.6 (2)	65.4	61.6 (2)	-1	38	1.8

(cont'd)

Test mean	57.74	53.60	53.19	56.22	69.36	23.8	40.2	2.34
LSD .05	7.07	10.43	11.64	13.95	11.04	3.0	3.7	0.68

† Check variety used to calculate deviation from standard maturity.

* Not significantly different from the highest yield within that column.

TABLE 4. (Continued) Central Michigan.

Brand	Entry	Yield (bu/A)					Maturity (days)	Height (in)	Lodging Score
		Entire Central Region 1987 Avg. (n)	South Central (Ingham Co.) 1987 Avg. (n)	Central (Saginaw Co.) 1987 Avg. (n)	East Central (Sanilac Co.) 1987 Avg. (n)	East Central (Macomb Co.) 1987 Avg. (n)			
Jacques	J-201	59.5 49.1 (8)	51.1 44.3 (2)	47.2 38.4 (2)	64.6 * 56.9 (4)	75.1 56.9 (4)	-7	41	2.3
Kaiser / Estech	156	61.7 * 61.7 (5)	49.9 - -	55.1 * - -	64.8 * 70.8 (2)	76.9 * 70.8 (2)	-7	41	1.6
Kaiser / Estech	212	53.1 - -	46.8 - -	54.9 - -	45.4 55.4 (2)	65.4 55.4 (2)	-2	40	2.0
King Grain	KG81	55.9 48.0 (8)	42.1 40.2 (2)	55.9 * 46.4 (2)	53.6 52.6 (4)	71.8 52.6 (4)	-4	42	2.0
King Grain	KG91	57.5 - -	53.1 - -	58.0 * - -	53.3 59.4 (2)	65.5 59.4 (2)	0	41	3.1
King Grain	KG4602	49.8 - -	35.9 - -	44.5 - -	51.0 59.4 (2)	67.9 59.4 (2)	0	37	1.9
King Grain	KG4615	58.6 - -	58.8 - -	42.8 - -	63.7 * 66.4 (2)	69.1 66.4 (2)	10	45	3.1
King Grain	PS90	54.8 45.7 (15)	46.6 45.3 (4)	46.3 43.0 (5)	58.3 * 48.2 (6)	68.0 48.2 (6)	-1	46	2.6
Lakeside States	21 Brand	65.5 * 52.7 (8)	51.6 43.0 (2)	62.8 * 45.8 (2)	65.3 * 61.0 (4)	82.2 * 61.0 (4)	6	42	3.0
Lakeside States	116	56.9 47.1 (10)	59.3 48.3 (2)	48.6 41.1 (2)	52.1 51.7 (4)	67.7 51.7 (4)	0	40	1.5
Lakeside States	125-A	63.9 * 59.8 (5)	52.4 47.9 (2)	54.4 - -	65.7 * 74.3 (2)	82.9 * 74.3 (2)	3	43	2.2
Maumee Valley	Caliber	53.3 49.6 (7)	48.3 45.6 (4)	52.4 - -	50.1 56.2 (2)	62.4 56.2 (2)	-4	41	2.3
Maumee Valley	Eagle	58.4 - -	45.5 - -	61.5 * - -	56.7 63.4 (2)	70.1 63.4 (2)	-2	38	2.3
Maumee Valley	Enterprise	55.1 48.3 (6)	44.0 37.9 (3)	49.9 - -	57.8 * 63.2 (2)	68.6 63.2 (2)	3	37	2.2
Maumee Valley	Sabre	67.0 * - -	65.0 * - -	61.6 * - -	58.2 * 70.6 (2)	83.0 * 70.6 (2)	4	41	2.3
Maumee Valley	Exp B1	58.6 - -	45.8 - -	55.2 * - -	58.0 * 66.8 (2)	75.5 66.8 (2)	-7	39	1.3
Maumee Valley	Warrior	61.9 * 55.2 (6)	56.7 46.9 (3)	60.1 * - -	51.7 65.3 (2)	78.9 * 65.3 (2)	6	43	3.0
Northrup King	S15-50	55.2 44.3 (14)	52.8 46.4 (3)	56.8 * 43.2 (3)	43.5 44.9 (5)	67.5 44.9 (5)	-8	42	2.0
Northrup King	S23-03	53.0 44.9 (12)	48.8 42.4 (4)	50.0 42.5 (3)	48.2 48.4 (5)	64.9 48.4 (5)	-3	39	2.4
Northrup King	S23-12	61.1 * 50.6 (8)	51.1 49.3 (2)	62.3 * 51.0 (2)	60.4 * 51.1 (4)	70.7 51.1 (4)	-4	45	1.1
Pioneer	9181	51.8 52.9 (5)	45.7 - -	45.1 - -	61.5 * 58.3 (2)	55.0 58.3 (2)	-7	34	1.4
Pioneer	9202	57.1 - -	53.8 - -	50.9 - -	54.8 61.8 (2)	68.8 61.8 (2)	-6	37	1.4
Pioneer	9251	60.3 49.7 (8)	51.8 43.5 (2)	62.3 * 48.0 (2)	57.8 * 53.7 (4)	69.3 53.7 (4)	0	38	1.5
Pioneer	9271	62.3 * 51.4 (10)	55.2 48.7 (4)	61.1 * 52.0 (3)	58.4 * 54.5 (3)	74.7 54.5 (3)	4	37	2.3
Pride	B152	55.9 45.1 (14)	50.5 45.9 (3)	55.8 * 45.2 (4)	57.6 * 45.2 (5)	59.5 45.2 (5)	-8	36	1.1
Prosoy	PS138	58.9 60.4 (5)	52.9 - -	55.1 * - -	51.4 63.7 (2)	76.0 63.7 (2)	-7	40	1.8
Prosoy	PS210	55.9 48.9 (15)	46.8 47.1 (3)	62.0 * 49.3 (7)	45.9 49.6 (5)	68.9 49.6 (5)	-1	41	1.9
Prosoy	PS246A	63.0 * - -	56.7 - -	54.9 - -	59.7 * 70.2 (2)	80.7 * 70.2 (2)	3	41	3.0
Rupp	Exp 29726	61.7 * - -	58.6 - -	57.0 * - -	57.7 * 65.5 (2)	73.3 65.5 (2)	0	37	2.3
Rupp	RS2300	54.7 45.7 (21)	51.9 46.1 (4)	55.2 * 46.2 (9)	47.9 45.0 (8)	63.9 45.0 (8)	-1	43	1.9
Rupp	RS2460P	64.0 * 47.2 (15)	62.6 * 49.2 (4)	53.7 44.4 (5)	59.5 * 48.2 (6)	80.1 * 48.2 (6)	7	44	3.0
Stine	2710E Brand	57.2 49.0 (8)	52.2 46.4 (2)	53.6 44.5 (2)	48.7 52.5 (4)	74.2 52.5 (4)	2	43	2.4
Stine	2750 Brand	61.5 * - -	58.8 - -	56.5 * - -	52.4 65.4 (2)	78.4 * 65.4 (2)	2	36	2.3
Terra	275E	62.7 * - -	55.7 - -	55.9 * - -	59.6 * 69.6 (2)	79.6 * 69.6 (2)	7	41	3.2
Terra	Decathlon Brand	60.2 - -	50.8 - -	51.0 - -	67.2 * 69.5 (2)	71.9 69.5 (2)	0	40	2.7
Terra	Hurdle Brand	50.8 44.1 (8)	44.2 40.9 (2)	46.3 41.1 (2)	47.6 47.2 (4)	64.9 47.2 (4)	0	38	1.6
Terra	Olympian Brand	54.6 49.5 (5)	43.8 36.9 (2)	45.8 - -	60.8 * 64.3 (2)	67.8 64.3 (2)	3	40	2.2
Terra	Runner Brand	49.9 42.7 (10)	47.6 42.9 (2)	50.9 37.1 (2)	40.6 44.5 (4)	60.6 44.5 (4)	-5	41	2.3
Terra	Sprint Brand	62.2 * 56.8 (5)	63.3 * 49.2 (2)	51.7 - -	66.5 * 67.0 (2)	67.5 67.0 (2)	7	43	3.1
Voris	Exp 2624	62.5 * - -	55.9 - -	56.9 * - -	57.6 * 68.6 (2)	79.7 * 68.6 (2)	1	42	2.5
Voris	V207	53.1 46.2 (23)	47.1 48.1 (4)	50.0 45.6 (10)	51.0 46.1 (9)	64.3 46.1 (9)	-4	43	2.7
Voris	V311	60.8 48.1 (12)	47.9 44.5 (4)	52.8 42.7 (3)	62.0 * 54.3 (5)	80.3 * 54.3 (5)	6	41	2.9
	Test mean	57.74	53.60	53.19	56.22	69.36	23.8	40.2	2.34
	CV	8.8%	11.1%	13.1%	14.7%	10.0%	9.0%	6.6%	21.1%
	LSD _{.05}	7.07	10.43	11.64	13.95	11.04	3.0	3.7	0.68

* Not significantly different from the highest yield within that column.

TABLE 5. Saginaw Bay Area (Huron Co.).

Brand	Entry	Yield		Maturity		Height Inches	Lodging Score
		1987	Avg. (n)	Date	Dev.		
Public	BSR 101	64.3	45.5 (3)	10-1	12	39	1.7
Public	Corsoy 79	65.5	44.3 (4)	10-1	12	38	2.0
Public	Dassel	51.9	41.7 (4)	9-20	1	29	1.0
Public	Dawson	50.6	42.0 (6)	9-15	-4	34	1.4
Public	Hardin	58.9	43.1 (4)	10-1	12	39	1.7
Public	Hodgson 78 †	54.9	42.6 (5)	9-19	0	35	1.1
Public	Ozzie	45.6	37.0 (5)	9-12	-7	25	1.0
Public	Sibley	56.6	44.2 (2)	9-23	4	37	1.8
Public	Simpson	55.4	42.5 (5)	9-15	-4	33	1.7
Public	Weber 84	60.6	41.8 (3)	9-28	9	40	2.4
Agripro	AP1776	56.9	-- --	9-27	8	35	1.1
Agripro	Ex 1989	75.3 *	-- --	10-1	12	40	2.1
Asgrow	A0949	55.5	42.0 (2)	9-17	-2	36	1.4
Asgrow	A1525	51.8	40.6 (3)	9-19	0	30	1.1
Asgrow	A1937	52.3	45.7 (4)	9-24	5	38	1.3
Callahan	6180 Brand	59.2	49.2 (2)	9-28	9	31	0.9
Dairyland	DSR-128	52.8	47.3 (2)	9-24	5	31	0.9
Dairyland	DSR-135	56.1	40.2 (5)	9-21	2	34	1.6
Dairyland	DSR-155	57.1	-- --	9-29	10	37	1.0
Dairyland	DSR-171	60.2	43.8 (4)	10-2	13	45	2.4
DeKalb-Pfizer	CX187	62.9	-- --	9-29	10	35	1.0
Diehl Fields	DF-101 Brand	58.7	-- --	9-29	10	31	0.9
Funk	G3197	56.4	44.4 (2)	9-30	11	31	0.9
Garst	8011	61.4	-- --	9-23	4	34	2.6
Garst	8101	53.6	-- --	9-28	9	40	1.3
Glenn-Garno	1800	60.3	-- --	9-27	8	33	1.1
Golden Harvest	H-1170 Brand	56.6	-- --	9-26	7	33	1.3
GLH	GL1900 Brand	59.2	42.7 (3)	10-1	12	37	1.3
GLH	GL1999 Brand	64.2	-- --	10-3	14	43	2.3
Lakeside States	116	51.8	42.8 (2)	10-2	13	39	1.3
Kaiser / Estech	156	61.6	-- --	9-29	10	34	0.9
Northrup King	S15-50	58.3	42.3 (3)	9-26	7	43	1.3
Pioneer	9181	57.1	-- --	9-27	8	33	1.0
Pride	B152	55.0	43.2 (2)	9-26	7	36	0.9
Prosoy	PS138	66.8 *	-- --	9-30	11	39	1.3
Terra	Runner Brand	60.7	44.6 (2)	9-29	10	43	1.9
Test Mean		57.95		25.8	6.8	35.9	1.42
CV		8.4%		9.0%		7.1%	28.4%
LSD_{.05}		8.61		4.1		4.6	0.70

* Not significantly different from the highest yield in the column.

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