

# 1983 MICHIGAN SOYBEAN PERFORMANCE REPORT

Extension Bulletin E-1206, January 1984

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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 (Monroe County), Southwestern Michigan (St. Joseph County), and East Central Michigan (Sanilac County). Smaller trials were conducted in Huron and Delta Counties.

## Testing Procedures

Commercial varieties were obtained from seed companies. No attempt was made to include commercial varieties not voluntarily entered in the 1983 trials. Public varieties were supplied by the Michigan Foundation Seed Association. Table 10 provides the names and locations of the companies and entries included in the trials.

Extension and farm cooperators, planting and harvest dates, fertilizer practices, previous crops, and soil management groups at the five locations are listed in Table 1.

Varieties entered in the early-to-medium maturity trials are considered maturity group I and varieties entered in the medium-to-late maturity trials are considered maturity group II, unless otherwise noted in the table. Entries were planted in plots 26 feet long and four rows wide, with a 20-inch row spacing. The planting rate was 4.5 seeds per foot of row and seeds were planted 1½" deep. Each plot was randomized in the field and replicated 3 times. Twelve feet of the center two rows were harvested for yield determinations.

## Evaluation of Characteristics

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

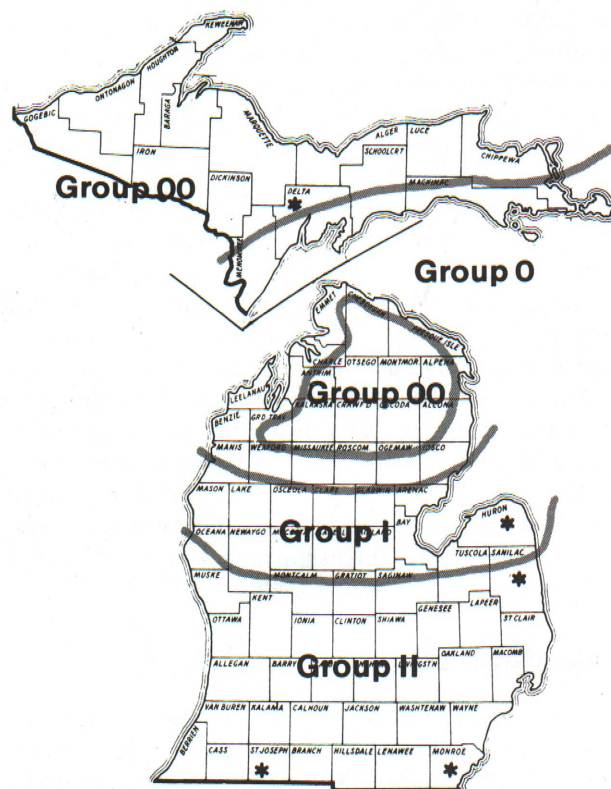
**MATURITY DATE** — Entries were considered mature when 95% of the pods were a mature pod color and would crack under finger pressure. Additional

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.

**SEED SIZE** — The number of seeds per pound was determined as a measure of seed size. The determination was made on clean, unsized seed.

**LODGING** — Lodging rates reflect the erectness of



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

the plants before harvest. Ratings are based on the following scale:

1. Almost all plants erect
2. All plants leaning slightly, or less 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 through 9 show results of 1983 soybean variety trials. Values given are the averages of all replications harvested at each location.

Growing conditions varied between locations. In St. Joseph County, very dry growing conditions in late summer generally depressed yields. The Monroe County trial received more favorable rainfall patterns during the growing season and soybean yields were generally good. The location which had the highest yields in 1983 was in Sanilac County. This location produced very high soybean yields despite some minor injury from Banvel in mid-summer. A new location in Huron County, a field with no soybean history, was established in 1983. Soybeans at this location were treated with an in-furrow granular soybean inoculant to insure adequate nodulation. In the Saginaw County trial, poor soybean emergence resulted in generally depressed yields and high variability between replications. Since these results are unrepresentative of soybean yield performance in Saginaw County, they are not included in this report.

LSD values are given at the bottom of each table. 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 slight differences in soil fertility, compaction, and other environmental factors. If the difference between two varieties 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.

## Selecting a Variety

The primary consideration in selecting a variety is harvestable 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 a proper maturity. From past weather data, farmers can determine the percent probability of the time 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 potential 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 want to 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 based on number of seeds per foot of row eliminate seed-size bias.

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 rot. 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 aboveground parts. The fungi that cause root rots often survive in the soil for several years, even in the absence of a host plant. Once root rot fungi are established in a field, control is difficult, even with crop rotation.

New varieties with resistance to one or more diseases are being developed, particularly varieties resistant to *Phytophthora* root rot. Consult seed dealers or Cooperative Extension Service personnel for information on varietal disease resistance characteristics.

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 in following years.

More information about variety selection and cultural practices can be found in Extension Bulletin E-1549, "Soybean Production in Michigan" (free).

## Use of Data

All data presented are from 1983 performance trials, except the 1982-83 and 1981-83 yield averages. The varieties are arranged in order of yield within a maturity trial at each location.

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	Monroe	St. Joseph	Sanilac	Huron	Delta
CES Director/Agent	F. Paul Nevel Paul F. Marks	Frederich J. Henningsen Denny Bowen	A. Rex Sieting Mark W. Stephenson	Robert A. Johnson James P. LeCureux	Donald L. Pellegrini
Farmer Cooperator	Larry Metz	James A. Fairchild	Mezo Farms	Robert Tenbusch	Robert Banon
Address	3974 Geiger Rd. Ida, MI	18440 Fairchild Rd. Constantine, MI	1640 W. Walker Rd. Sandusky, MI	Section Line Rd. Bad Axe, MI	Cornell, MI
Soil Type	Selfridge loamy sand Pewamo clay loam complex	Spinks sandy loam	Parkhill-Capac loam	Kilmanagh loam	Onaway loam
Soil Management Group	4/2b - 1.5c	4a	2.5c - 2.5b	2.5c	2.5a
Previous Crop	Corn	Soybeans	Corn	Corn	Potatoes
Fertilizer	200# 6-24-24 (3% Mn)	145# 0-0-60 150# 13-15-0	400# 0-14-42 25 gal/acre (10.7#/gal) (70% 10-34-0) 30% 28-0-0)	45# 46-0-0	200# 19-19-19
Planting Date	5/27/83	5/26/83	5/28/83	5/28/83	6/3/83
Harvest Date Early to Medium Maturity	9/28/83	9/27/83	10/11/83	10/11/83	10/4/83
Medium to Late Maturity	9/29/83	9/27/83	10/11/83	---	---

**TABLE 2. SOUTHEASTERN MICHIGAN, EARLY TO MEDIUM MATURITY (MONROE COUNTY, 1982-1983; LENAWEE COUNTY, 1981).**

BRAND	ENTRY	1983 YIELD (BU/A)	1982-1983 AVG. YIELD (BU/A)	1981-1983 AVG. YIELD (BU/A)	1983 MATURITY DATE	LODGING	HEIGHT (INCHES)	SEED SIZE (SEEDS/LB)
PUBLIC	**HODGSON 78	52.9	49.6	49.2	9-12	1.0	36	3228
ASGROW	A 1564	52.0	49.0	49.3	9-12	1.0	40	3162
PUBLIC	**CORSOY 79 (MG-II)	51.7	53.0	53.2	9-18	1.3	40	3340
PUBLIC	**HARDIN	50.6	49.5	51.7	9-17	1.3	40	3340
DEKALB-PFIZER	EX 19	50.1	--	--	9-15	1.3	41	3373
DEKALB-PFIZER	CX 155	50.0	--	48.3	9-17	1.7	37	3350
NORTHROP KING	S 1884	50.0	53.0	--	9-15	1.0	36	3409
PUBLIC	**EVANS (MG-O)	47.4	45.7	45.6	9-11	1.0	32	3161
ASGROW	A 1937	46.8	48.9	49.9	9-13	1.0	39	3263
CALLAHAN	9160	46.3	46.8	48.9	9-14	1.0	39	3505
DEKALB-PFIZER	EX 2004	46.2	--	--	9-12	1.0	36	3267
RUPP	EXP. 171E	46.0	--	--	9-15	1.3	39	3269
PUBLIC	**WEBER	46.0	46.4	--	9-13	1.7	35	3990
DAIRYLAND	**DSR-141	45.8	45.0	46.7	9-12	1.0	42	3097
DAIRYLAND	83-133	44.5	--	--	9-13	1.0	40	2973
PUBLIC	**LAKOTA	44.4	46.0	45.6	9-12	1.7	44	3476
DAIRYLAND	**DSR-171	44.1	45.8	47.0	9-14	1.0	37	3298
PUBLIC	SIMPSON (MG-O)	43.9	--	--	9-11	1.0	33	3340
PROSOY	PS 104	41.1	45.6	49.6	9-14	1.0	36	3320
PUBLIC	DAWSON (MG-O)	41.0	--	--	9-7	1.0	29	3131
AGRIPRO	AP 10	39.1	--	--	9-11	1.3	37	3415
AGRIPRO	AP 120	36.9	--	--	9-8	1.0	31	3545
PUBLIC	OZZIE (MG-O)	36.3	--	--	9-6	1.0	26	3248
AVERAGE		45.8			9-13	1.2	37	
LSD (.05)		NS			2	0.6	5	

\*\*VARIETIES PRECEDED BY DOUBLE ASTERISKS ARE ELIGIBLE FOR CERTIFICATION IN MICHIGAN IN 1984.  
NS: VARIATION IN YIELD AMONG VARIETIES WAS NOT STATISTICALLY SIGNIFICANT.

TABLE 3. SOUTHEASTERN MICHIGAN, MEDIUM TO LATE MATURITY (MONROE COUNTY, 1982-1983; LENAWEE COUNTY, 1981).

BRAND	ENTRY	1983 YIELD (BU/A)	1982-1983 AVG. YIELD (BU/A)	1981-1983 AVG. YIELD (BU/A)	1983 MATURITY DATE	LODGING	HEIGHT (INCHES)	SEED SIZE (SEEDS/LB)
PUBLIC	**CORSOY 79	58.8	53.0	53.2	9-17	1.7	45	3221
DEKALB-PFIZER	EX2009	57.4	--	--	9-22	1.7	42	3231
PUBLIC	**CORSOY	56.0	52.4	52.9	9-19	1.7	45	3095
PUBLIC	**HARCOR	56.0	52.6	52.6	9-19	2.0	47	3301
CALLAHAN	3310 (MG-III)	55.6	51.8	--	9-23	2.7	42	3369
GLH	GL2634	55.0	51.4	54.2	9-20	1.7	42	3391
JACQUES	J-103	53.8	52.0	53.8	9-19	1.3	42	2963
RUPP	RS2300	53.5	50.0	51.9	9-17	1.3	43	3020
CALLAHAN	3210	52.9	--	--	9-17	1.7	40	3210
DEKALB-PFIZER	CB200	52.9	50.6	51.2	9-17	1.7	43	3376
AGRIPRO	AP240	52.6	47.8	--	9-18	1.0	38	3382
PUBLIC	SPRITE @ 125000/A (MG-III)	52.4	--	--	9-24	1.0	28	3047
DAIRYLAND	83-201	52.2	--	--	9-15	1.7	42	2934
VORIS	V247	51.9	49.6	52.3	9-15	1.3	39	3009
SRF	205	51.8	49.2	50.2	9-18	2.3	47	3096
VORIS	V285	51.8	48.4	50.3	9-21	2.3	50	3333
DEKALB-PFIZER	EX2011 (MG-III)	51.2	--	--	9-23	1.3	44	3449
PIONEER	9220	51.0	49.6	--	9-16	1.3	43	3210
PUBLIC	**VICKERY	50.7	50.6	50.9	9-16	2.0	45	3327
PUBLIC	**CENTURY	50.3	48.6	50.3	9-20	1.0	39	2786
FFR	225	49.6	--	--	9-18	1.3	45	2923
PROSOY	PS234	49.6	49.0	49.4	9-19	1.3	40	2875
GLH	GL2250	49.5	48.0	49.8	9-19	1.0	46	2931
PUBLIC	**AMSDY 71	49.3	47.2	48.6	9-19	1.7	49	3110
KING GRAIN	2181	49.1	48.8	--	9-19	2.3	52	3508
DAIRYLAND	**DSR-207	49.0	48.2	49.5	9-19	1.0	41	3106
DAIRYLAND	**DSR-232	48.7	47.2	48.2	9-21	2.3	43	3076
KING GRAIN	B220	48.6	49.6	49.7	9-17	1.0	40	3113
DAIRYLAND	DSR-320 (MG-III)	48.6	47.5	--	9-25	2.3	49	3025
PUBLIC	HOBBIT @ 250000/A (MG-III)	48.4	--	--	9-23	1.0	28	3505
PROSOY	PS332 (MG-III)	48.4	--	57.6	9-24	2.0	49	3272
NORTHROP KING	S3031 (MG-III)	48.1	--	--	9-12	1.0	32	3220
ASGROW	A2575	47.7	47.0	49.0	9-15	1.0	42	3282
PUBLIC	**NEBSOY	47.3	45.2	47.5	9-15	1.0	37	3079
PUBLIC	**AMCOR	47.2	47.7	50.1	9-21	2.3	49	3160
PUBLIC	**HODGSON 78 (MG-I)	47.0	49.6	49.2	9-12	1.7	37	3049
FUNK	G3236	46.9	44.6	--	9-20	1.3	41	2815
ASGROW	A3127 (MG-III)	46.9	--	--	9-23	1.0	39	3571
DEKALB-PFIZER	CX273	46.8	47.0	--	9-21	1.0	39	2725
GRIES	GSF-220	46.8	--	--	9-15	1.3	40	3084
PROSOY	PS246	46.7	44.7	48.0	9-20	1.0	44	2727
KING GRAIN	**B216	46.6	46.0	--	9-16	1.3	41	3285
VORIS	V207	46.6	46.6	49.6	9-14	1.0	45	3263
AGRIPRO	**AP200	46.2	47.8	47.9	9-13	1.7	44	3310
PUBLIC	HOBBIT @ 125000/A (MG-III)	46.0	--	--	9-22	1.0	25	3350
PIONEER	2480	45.8	--	--	9-18	1.7	41	3110
NORTHROP KING	**S1492	45.5	45.1	47.5	9-15	1.3	41	3311
DAIRYLAND	DSR-227	45.2	45.2	46.6	9-18	2.0	47	3236
PUBLIC	CUMBERLAND (MG-III)	45.1	--	--	9-23	2.0	43	2814
PUBLIC	**BEESON 80	44.9	45.2	47.4	9-20	2.3	41	2741
PROSOY	PS210	44.8	--	46.2	9-17	1.0	42	2971
PUBLIC	WAYNE (MG-III)	43.3	--	--	9-21	1.7	47	3299
PUBLIC	**WELLS II	43.2	41.2	45.2	9-13	1.0	41	3455
VORIS	V251	43.1	42.0	--	9-19	1.3	43	3339
FUNK	G3250	42.6	46.0	--	9-15	1.7	40	3316
DAIRYLAND	DSR-312 (MG-III)	42.5	43.1	--	9-21	2.3	52	3234
RUPP	RS2330	42.4	44.4	--	9-20	1.0	38	3340
CALLAHAN	1260	42.3	--	--	9-19	1.3	40	3066
GLH	GL2317	42.2	42.8	45.7	9-20	1.3	45	2612
HYLAND	T8112	42.2	--	--	9-21	2.7	37	3097
DAIRYLAND	DSR-303 (MG-III)	42.0	42.2	--	9-21	1.3	46	3255
PUBLIC	**GNOME @ 250000/A	41.9	43.0	44.4	9-20	1.0	29	3617
GLH	GL2552	41.7	43.6	--	9-20	1.7	46	3740
PUBLIC	**GNOME @ 125000/A	41.6	43.0	44.4	9-20	1.0	25	3476
PUBLIC	PELLA (MG-III)	41.6	--	--	9-22	1.3	44	2719
GRIES	GSF-285	41.6	--	--	9-22	2.0	43	3068
DAIRYLAND	DSR-212	41.6	42.4	--	9-18	1.0	40	2884
FFR	226	41.4	--	--	9-21	1.7	44	3124
ASGROW	A2680	41.3	44.0	--	9-18	1.7	37	3418
CALLAHAN	1250	40.8	--	--	9-21	1.7	40	3012
PUBLIC	SPRITE @ 250000/A (MG-III)	40.6	--	--	9-21	1.0	28	3286
PUBLIC	WILLIAMS 79 (MG-III)	36.0	--	--	9-25	1.7	45	3052
AVERAGE		47.4			9-19	1.5	42	
LSD(.05)		NS			3	0.7	5	

\*\*VARIETIES PRECEDED BY DOUBLE ASTERISKS ARE ELIGIBLE FOR CERTIFICATION IN MICHIGAN IN 1984.  
NS: VARIATION IN YIELD AMONG VARIETIES WAS NOT STATISTICALLY SIGNIFICANT.

TABLE 4. SOUTHWESTERN MICHIGAN, EARLY TO MEDIUM MATURITY (ST. JOSEPH COUNTY, 1983; BERRIEN COUNTY, 1982).

BRAND	ENTRY	1983 YIELD (BU/A)	1982-1983 AVG. YIELD (BU/A)	1983 MATURITY DATE	LODGING	HEIGHT (INCHES)	SEED SIZE (SEEDS/LB)
ASGROW	A1937	28.1	37.3	9-5	1.0	23	3673
PUBLIC	**CORSOY 79	27.2	39.7	9-11	1.0	28	3686
DAIRYLAND	**DSR-171	25.8	35.8	9-10	1.0	25	3381
DAIRYLAND	**DSR-141	25.5	35.1	9-9	1.0	26	3155
PUBLIC	**HARDIN	24.9	33.8	9-9	1.0	24	3702
DAIRYLAND	83-133	24.9	--	9-9	1.0	23	2877
PUBLIC	**WEBER	24.8	36.0	9-7	1.0	22	4187
RUPP	EXP. 171E	24.8	--	9-9	1.0	26	3512
PROSOY	PS104	23.7	29.1	9-6	1.0	23	3501
CALLAHAN	9160	23.4	35.4	9-7	1.0	24	3474
NORTHRUP KING	S1884	22.5	34.9	9-9	1.0	25	3646
AGRIPRO	AP10	22.2	--	9-6	1.0	23	3561
PUBLIC	**HODGSON 78	22.1	34.2	9-6	1.0	21	3346
DEKALB-PFIZER	EX19	21.7	--	9-10	1.0	23	3375
DEKALB-PFIZER	EX2004	21.7	--	9-8	1.0	20	3339
PUBLIC	DAWSON (MG-O)	21.6	--	9-3	1.0	19	3260
PUBLIC	**LAKOTA	21.4	31.3	9-8	1.0	29	3673
ASGROW	A1564	20.8	33.9	9-7	1.0	24	3373
PUBLIC	SIMPSON (MG-O)	20.3	--	9-7	1.0	18	3238
DEKALB-PFIZER	CX155	19.9	--	9-11	1.0	23	3539
PUBLIC	OZZIE (MG-O)	19.7	--	9-5	1.0	18	2936
AGRIPRO	AP120	19.4	--	9-4	1.0	17	3339
PUBLIC	**EVANS (MG-O)	18.8	27.3	9-4	1.0	20	3597
AVERAGE		22.8		9-7	1.0	23	
LSD (.05)		NS		2	0.0	3	

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 NS: VARIATION IN YIELD AMONG VARIETIES WAS NOT STATISTICALLY SIGNIFICANT.

TABLE 5. SOUTHWESTERN MICHIGAN, MEDIUM TO LATE MATURITY (ST. JOSEPH COUNTY, 1983; BERRIEN COUNTY, 1982).

BRAND	ENTRY	1983 YIELD (BU/A)	1982-1983 AVG. YIELD (BU/A)	1983 MATURITY DATE	LODGING	HEIGHT (INCHES)	SEED SIZE (SEEDS/LB)
AGRIPRO	**AP200	30.2*	40.2	9-7	1.0	27	3513
RUPP	RS2300	27.2*	37.6	9-12	1.0	29	3378
VORIS	V207	26.3*	36.4	9-10	1.0	31	3560
GLH	GL2634	26.1*	41.2	9-16	1.0	28	3830
PIONEER	2480	26.1*	--	9-12	1.0	27	3331
AGRIPRO	AP240	25.7*	36.3	9-14	1.0	28	3737
PIONEER	9220	25.5	37.4	9-11	1.0	28	3797
DEKALB-PFIZER	CB200	25.1	34.8	9-12	1.0	28	3794
NORTHRUP KING	S3031 (MG-III)	24.9	--	9-10	1.0	25	3311
PUBLIC	**HODGSON 78 (MG-I)	24.8	35.5	9-9	1.0	24	3302
PROSOY	PS234	24.5	38.1	9-12	1.0	28	3646
KING GRAIN	B220	24.5	34.5	9-12	1.0	26	3511
CALLAHAN	3210	24.5	--	9-13	1.0	25	3672
PUBLIC	**HARCOR	24.3	38.4	9-14	1.0	29	3987
PROSOY	PS210	24.1	--	9-12	1.0	29	3259
DEKALB-PFIZER	EX2009	23.9	--	9-17	1.0	29	3774
NORTHRUP KING	**S1492	23.9	35.8	9-10	1.0	25	3769
VORIS	V251	23.7	35.4	9-14	1.0	32	3831
SRF	205	23.4	33.4	9-12	1.0	27	3926
PUBLIC	**CORSOY 79	23.2	37.7	9-14	1.0	28	3834
PUBLIC	**CORSOY	23.1	34.2	9-13	1.0	28	3675
HYLAND	T8112	23.0	--	9-15	1.0	27	3554
PUBLIC	**WELLS II	22.9	37.3	9-11	1.0	29	3601
DAIRYLAND	DSR-212	22.7	32.2	9-12	1.0	27	3425
PUBLIC	**AMSDY 71	22.7	38.6	9-12	1.0	30	3608
CALLAHAN	1250	22.5	--	9-16	1.0	27	3819
DAIRYLAND	**DSR-207	22.2	34.1	9-16	1.0	27	3351
GLH	GL2552	22.1	35.4	9-12	1.0	31	4353
GLH	GL2250	22.0	32.0	9-13	1.0	26	3553
KING GRAIN	2181	22.0	34.3	9-14	1.0	32	4299
PUBLIC	**NEBSOY	22.0	32.4	9-11	1.0	25	3205
DEKALB-PFIZER	CX273	22.0	36.3	9-15	1.0	30	3531
JACOUES	J-103	21.8	34.6	9-13	1.0	27	3617
ASGROW	A2575	21.7	35.1	9-12	1.0	27	3757
GRIES	GSF-220	21.6	--	9-12	1.0	27	3417
PROSOY	PS246	21.5	35.4	9-14	1.0	31	3480
CALLAHAN	1260	21.5	--	9-15	1.0	30	3393
FFR	225	21.3	--	9-15	1.0	29	3397
FUNK	G3236	20.8	34.1	9-16	1.0	28	3264
DAIRYLAND	83-201	20.7	--	9-12	1.0	28	3468
KING GRAIN	**B216	20.6	32.0	9-12	1.0	26	3599
PUBLIC	**CENTURY	20.5	33.3	9-15	1.0	28	3178
FFR	226	20.4	--	9-16	1.0	34	3683
FUNK	G3250	20.3	33.2	9-12	1.0	27	3913
PUBLIC	**VICKERY	20.3	35.4	9-12	1.0	25	3795

TABLE 5. SOUTHWESTERN MICHIGAN, MEDIUM TO LATE MATURITY (ST. JOSEPH COUNTY, 1983; BERRIEN COUNTY, 1982).

PUBLIC	**BEESON 80*	20.2	35.0	9-14	1.0	30	3703
DAIRYLAND	DSR-227	20.1	31.7	9-13	1.0	33	3928
ASGROW	A2680	20.0	29.9	9-12	1.0	27	3773
DAIRYLAND	**DSR-232	19.9	34.2	9-15	1.0	34	3864
CALLAHAN	3310 (MG-III)	19.7	36.9	9-17	1.0	28	4007
PUBLIC	**AMCOR	19.7	31.6	9-17	1.0	30	3764
GLH	GL2317	19.5	32.9	9-18	1.0	32	2985
DAIRYLAND	DSR-312 (MG-III)	19.1	31.2	9-15	1.0	32	3787
ASGROW	A3127 (MG-III)	19.0	--	9-22	1.0	30	3892
PUBLIC	**GNOME @ 125000/A	18.9	27.1	9-18	1.0	23	4156
DAIRYLAND	DSR-303 (MG-III)	18.8	34.9	9-19	1.0	36	3575
PUBLIC	**GNOME @ 250000/A	18.7	27.1	9-21	1.0	25	4218
RUPP	RS2330	18.5	32.9	9-18	1.0	27	3853
PUBLIC	HOBBIT @ 125000/A (MG-III)	18.5	--	9-19	1.0	22	4373
PROSOY	PS332 (MG-III)	18.4	33.6	9-19	1.0	35	3909
VORIS	V247	18.2	32.0	9-12	1.0	24	3549
PUBLIC	HOBBIT @ 250000/A (MG-III)	17.7	--	9-22	1.0	26	4544
DAIRYLAND	DSR-320 (MG-III)	17.4	32.6	9-23	1.0	34	3728
PUBLIC	WAYNE (MG-III)	17.1	--	9-19	1.0	36	3720
PUBLIC	SPRITE @ 250000/A (MG-III)	17.0	--	9-24	1.0	28	3885
PUBLIC	WILLIAMS 79 (MG-III)	16.5	--	9-24	1.0	33	3485
DEKALB-PFIZER	EX2011 (MG-III)	16.5	--	9-17	1.0	31	4129
GRIES	GSF-285	16.4	--	9-18	1.0	31	3721
PUBLIC	SPRITE @ 125000/A (MG-III)	16.0	--	9-22	1.0	24	3741
PUBLIC	PELLA (MG-III)	14.8	--	9-22	1.0	32	3584
PUBLIC	CUMBERLAND (MG-III)	13.7	--	9-23	1.0	34	3678
VORIS	V285	13.0	28.7	9-23	1.0	34	3745
AVERAGE		36.9		10-5	1.5	33	
LSD(.05)		4.6		3	0.0	3	

\*YIELDS FOLLOWED BY AN ASTERISK ARE NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDING VARIETY.  
 \*\*VARIETIES PRECEDED BY DOUBLE ASTERISKS ARE ELIGIBLE FOR CERTIFICATION IN MICHIGAN IN 1984.

TABLE 6. EAST CENTRAL MICHIGAN, EARLY TO MEDIUM MATURITY (SANILAC COUNTY, 1982-1983).

BRAND	ENTRY	1983 YIELD (BU/A)	1982-1983 AVG. YIELD (BU/A)	1983 MATURITY DATE	LODGING	HEIGHT (INCHES)	SEED SIZE (SEEDS/LB)
NORTHROP KING	S1884	72.3*	57.4	9-28	1.7	39	2755
DAIRYLAND	**DSR-171	71.9*	55.5	9-27	2.3	44	2703
NORTHROP KING	**S1346	65.8*	46.4	9-26	1.0	35	2424
DEKALB-PFIZER	CX155	65.5*	53.2	10-2	3.0	43	2814
RUPP	EXP. 171E	64.4*	--	9-25	2.0	41	2713
PUBLIC	**CORSOY 79 (MG-II)	64.1*	54.1	10-2	3.0	43	2803
PUBLIC	**WEBER	64.0*	51.8	9-27	2.0	41	3284
PUBLIC	**HODGSON 78	63.7*	53.6	9-22	1.7	39	2567
DAIRYLAND	83-133	63.4*	--	9-24	1.0	37	2370
PUBLIC	DAWSON (MG-O)	63.1*	--	9-18	1.0	33	2754
ASGROW	A1937	62.6	51.6	9-23	1.3	38	2901
PIONEER	1282	62.6	--	9-20	1.0	40	2513
PROSOY	PS104	62.2	49.4	9-27	2.0	39	2577
PUBLIC	**HARDIN	62.2	52.7	10-2	2.9	40	2814
JACQUES	J-82 (MG-O)	61.4	--	9-20	1.0	36	2731
ASGROW	A1564	61.2	48.3	9-21	1.3	40	2607
HYLAND	CRUSADER	60.8	47.6	9-19	1.0	36	2672
GLH	GL1937	59.7	--	9-29	2.0	42	2934
DAIRYLAND	**DSR-141	58.2	42.4	9-22	1.3	39	2524
DEKALB-PFIZER	EX19	57.9	--	9-29	1.7	39	2783
PUBLIC	SIMPSON (MG-O)	57.8	--	9-18	1.0	30	2767
PUBLIC	**LAKOTA	57.2	39.0	9-26	2.3	43	2936
FUNK	12215	56.9	--	9-30	1.7	36	2702
KING GRAIN	2168	56.9	48.6	9-20	1.0	39	2342
DEKALB-PFIZER	EX2004	56.4	--	9-23	1.0	39	2736
GLH	GL1858	56.2	48.6	9-27	2.0	39	2709
PUBLIC	OZZIE (MG-O)	55.0	--	9-14	1.0	27	2595
AGRIPRO	AP10	53.2	42.4	9-23	1.7	37	2709
NORTHROP KING	S1460	53.1	--	9-23	1.0	34	2803
PUBLIC	**EVANS (MG-O)	53.0	48.4	9-18	1.0	35	2676
DAIRYLAND	**DSR-120	51.9	47.0	9-20	1.0	34	2468
AGRIPRO	AP120	51.4	39.0	9-16	1.0	33	2711
AVERAGE		60.2		9-24	1.5	38	
LSD(.05)		9.6		3	0.6	4	

\*YIELDS FOLLOWED BY AN ASTERISK ARE NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDING VARIETY.  
 \*\*VARIETIES PRECEDED BY DOUBLE ASTERISKS ARE ELIGIBLE FOR CERTIFICATION IN 1984.

TABLE 7. EAST CENTRAL MICHIGAN, MEDIUM TO LATE MATURITY (SANILAC COUNTY, 1982-1983).

BRAND	ENTRY	1983 YIELD (BU/A)	1982-1983 AVG. YIELD (BU/A)	1983 MATURITY DATE	LODGING	HEIGHT (INCHES)	SEED SIZE (SEEDS/LB)
GLH	GL2634	72.3*	--	10-6	2.7	39	2693
PUBLIC	**HARCOR	66.8*	51.6	10-4	2.7	45	2709
PUBLIC	**CENTURY	66.2*	50.1	10-6	1.0	42	2368
PUBLIC	**VICKERY	66.0*	50.8	10-2	2.0	43	2799
PUBLIC	**CORSOY 79	65.4*	54.1	10-4	2.0	43	2684
ASGROW	A2575	64.8*	50.2	10-1	1.0	43	2696
PUBLIC	**HODGSON 78 (MG-I)	64.5*	53.6	9-24	1.3	37	2539
AGRIPRO	**AP200	63.7*	48.6	9-28	1.3	42	2618
SRF	205	63.7*	46.0	10-2	1.0	41	2950
RUPP	RS2300	63.5*	50.0	9-29	1.0	40	2529
VORIS	V207	63.4*	49.2	10-1	1.0	40	2653
DAIRYLAND	DSR-212	63.2*	49.6	10-4	1.0	39	2301
KING GRAIN	2181	63.2*	46.6	10-4	2.0	48	3168
PIONEER	2480	62.9*	--	10-3	1.3	41	2450
PUBLIC	**AMCOR	62.2*	48.2	10-6	3.0	51	2671
DAIRYLAND	**DSR-232	61.8*	50.9	10-5	2.0	44	2818
DEKALB-PFIZER	EX2009	61.5*	--	10-6	2.0	42	2651
GRIES	GSF-208	61.5*	--	10-5	2.0	41	2759
DEKALB-PFIZER	CB200	61.4*	48.2	10-3	2.0	41	2804
PROSOY	PS246	60.1	47.0	10-6	1.0	42	2298
GLH	GL2552	59.9	48.6	10-3	1.3	44	3303
FUNK	G3236	59.5	45.6	10-6	2.0	41	2373
DAIRYLAND	83-201	59.3	--	10-4	2.7	44	2385
PROSOY	PS234	59.1	46.0	10-4	1.0	42	2327
DAIRYLAND	DSR-227	59.0	49.4	10-4	2.0	43	2904
PUBLIC	**AMSOY 71	58.6	49.0	10-3	1.7	47	2685
PROSOY	PS210	58.4	--	10-3	2.0	40	2484
PUBLIC	**PELLA (MG-III)	57.6	--	10-6	2.0	44	2186
FUNK	G3250	57.1	45.2	10-4	1.0	38	2610
KING GRAIN	B220	56.6	45.6	9-30	1.0	37	2735
PUBLIC	**GNOME @ 125000/A	56.1	43.8	10-7	1.3	27	2618
PUBLIC	**CORSOY	56.1	45.0	10-4	2.0	40	2709
DAIRYLAND	**DSR-207	55.7	44.6	10-3	1.3	43	2456
GLH	GL2250	54.8	45.8	10-4	1.3	40	2428
AGRIPRO	AP240	54.7	--	10-4	1.3	39	3118
DEKALB-PFIZER	CX273	54.6	47.6	10-4	1.0	44	2354
KING GRAIN	**B216	54.1	44.0	10-2	1.3	42	2639
PUBLIC	**NEBSOY	53.6	41.1	9-29	1.0	40	2672
VORIS	V247	53.0	46.2	10-3	1.0	37	2746
PUBLIC	**BEESON 80	52.3	43.0	10-4	1.7	41	2523
GRIES	GSF-218	51.8	--	10-3	1.0	43	2992
PIONEER	9220	51.2	44.0	10-3	1.3	40	2709
RUPP	RS2330	50.0	45.2	10-6	1.0	43	2742
PUBLIC	**GNOME @ 250000/A	47.3	43.8	10-7	3.7	32	2593
PUBLIC	**WELLS II	46.8	40.3	9-28	1.0	40	2708
	AVERAGE	59.0		10-3	1.6	41	
	LSD(.05)	11.3		2	0.7	5	

\*YIELDS FOLLOWED BY AN ASTERISK ARE NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDING VARIETY.  
 \*\*VARIETIES PRECEDED BY DOUBLE ASTERISKS ARE ELIGIBLE FOR CERTIFICATION IN MICHIGAN IN 1984.

TABLE 8. HURON COUNTY, EARLY TO MEDIUM MATURITY, 1983.

BRAND	ENTRY	1983 YIELD (BU/A)	1983 MATURITY DATE	LODGING	HEIGHT (INCHES)	SEED SIZE (SEEDS/LB)
DEKALB-PFIZER	EX2004	51.8*	9-25	1.0	33	2380
PUBLIC	**LAKOTA	51.6*	9-22	2.0	39	2489
NORTRUP KING	S1884	51.4*	9-27	1.3	35	2752
GLH	GL1858	51.1*	9-25	1.0	34	2313
ASGROW	A1937	50.9*	9-26	1.0	33	2560
DAIRYLAND	**DSR-141	49.4*	9-26	1.3	36	2268
PUBLIC	**WEBER	49.0*	9-25	1.3	31	3056
DAIRYLAND	**DSR-171	48.7*	9-23	1.0	36	2673
DAIRYLAND	**DSR-120	48.3*	9-22	1.0	30	2364
PUBLIC	**HARDIN	47.7*	9-29	1.0	36	2725
FUNK	12215	47.2*	9-29	1.3	31	2532
PROSOY	PS104	47.1*	9-23	1.3	31	2500
DEKALB-PFIZER	EX19	46.7*	9-24	1.0	35	2627
PUBLIC	**HODGSON 78	46.7*	9-25	1.0	33	2458
KING GRAIN	2168	46.2*	9-25	1.0	34	2255
PUBLIC	DAWSON (MG-O)	45.2*	9-22	1.0	28	2467
JACQUES	J-82 (MG-O)	45.0*	9-20	1.0	31	2803
DEKALB-PFIZER	CX155	44.8*	9-30	2.0	35	2731
GLH	GL1937	44.8*	9-26	1.0	37	2905
PUBLIC	SIMPSON (MG-O)	44.7*	9-23	1.0	29	2470
AGRIPRO	AP10	44.0*	9-22	1.0	33	2431
HYLAND	CRUSADER	43.3*	9-23	1.0	34	2577
PIONEER	1282	42.2	9-24	1.0	32	2340
NORTRUP KING	S1460	40.7	9-26	1.0	30	2390
RUPP	EXP. 171E	40.7	9-22	1.0	32	2730
DAIRYLAND	83-133	40.6	9-23	1.0	33	2446
NORTRUP KING	**S1346	40.6	9-21	1.0	27	2293
AGRIPRO	AP120	39.3	9-19	1.0	26	2418
PUBLIC	**CORSOY 79 (MG-II)	39.1	10-1	1.0	35	2532
ASGROW	A1564	39.0	9-23	1.0	29	2309
PUBLIC	**EVANS (MG-O)	37.9	9-21	1.0	30	2514
PUBLIC	OZZIE (MG-O)	34.0	9-23	1.0	25	2525
	AVERAGE	45.0	9-24	1.1	32	2526
	LSD(.05)	9.5	3	0.4	5	

\*YIELDS FOLLOWED BY AN ASTERISK ARE NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDING VARIETY.  
 \*\*VARIETIES PRECEDED BY DOUBLE ASTERISKS ARE ELIGIBLE FOR CERTIFICATION IN MICHIGAN IN 1984.

TABLE 9. SOUTHWEST UPPER PENINSULA, MICHIGAN (DELTA COUNTY, 1983; MENOMINEE COUNTY, 1981-1982).

BRAND	ENTRY	1983 YIELD (BU/A)	1982-1983 AVG. YIELD (BU/A)	1981-1983 AVG. YIELD (BU/A)	1983 MATURITY DATE	LODGING	HEIGHT (INCHES)	SEED SIZE (SEEDS/LB)
PUBLIC	MCCALL	45.0*	42.1	37.7	9-12	1.7	29	2480
PUBLIC	CLAY	39.2*	33.4	31.1	9-18	1.8	27	2522
KING GRAIN	20	37.7	32.0	--	9-10	1.7	25	2480
PUBLIC	**MAPLE ARROW	36.2	35.7	34.5	9-14	1.8	32	2304
PUBLIC	MAPLE AMBER	34.7	36.0	--	9-10	1.3	25	2480
PUBLIC	MAPLE PRESTO	31.3	30.3	26.9	9-4	1.3	26	2785
AVERAGE		37.4			9-11	1.6	27	
LSD(.05)		6.2			--	--	--	

\*YIELDS FOLLOWED BY AN ASTERISK ARE NOT SIGNIFICANTLY DIFFERENT FROM THE HIGHEST YIELDING VARIETY.  
 \*\*VARIETIES PRECEDED BY DOUBLE ASTERISKS ARE ELIGIBLE FOR CERTIFICATION IN MICHIGAN IN 1984.

TABLE 10. SEED SOURCE, MATURITY GROUP (MG), STATUS, AND REACTION TO PHYTOPHTHORA RACES 1 AND 2.

SOURCE (BRAND)	ENTRY	MG	STATUS*	PHYTOPHTHORA REACTION	SOURCE (BRAND)	ENTRY	MG	STATUS*	PHYTOPHTHORA REACTION
<b>PUBLIC VARIETIES</b>					<b>FFR CO-OP</b>				
	AMCOR	II	E	R		FFR 225	II		
	AMSOY 71	II	E, R	R		FFR 226	II		
	BEESON 80	II	E	R	<b>FUNK</b>				
	CENTURY	II	E, R	R		G3236	II	E	R
	CLAY	O		S		G3250	II	E	R
	CORSOY	II	E	S		12215	I		TOL
	CORSOY 79	II	E, R	R	<b>GREAT LAKES HYBRIDS</b>				
	CUMBERLAND	III		S		GL1858	I+		TOL
	DAWSON	O		S		GL1937	I+		R
	EVANS	O	E, R	R		GL2250	II		S
	GNOME	II	E	S		GL2317	II		TOL
	HARCOR	II	E	R		GL2552	II		R
	HARDIN	I	E, R	R		GL2634	II+	R	S
	HOBBIT	III	EO	S	<b>GRIES SEED FARMS</b>				
	HODGSON 78	I	E, R	R		GSF-208	II		
	LAKOTA	I	E	R		GSF-218	II		
	MAPLE AMBER	OO		R		GSF-220	II		
	MAPLE ARROW	OO	E	R		GSF-285	II		
	MAPLE PRESTO	OO		R	<b>JACQUES</b>				
	MCCALL	OO		S		J-82	O		S
	NEBSOY	II	E	R		J-103	II	E	S
	OZZIE	O		R	<b>KING GRAIN</b>				
	PELLA	III		R		B216	II	E	
	SIMPSON	O		R		B220	II		
	SPRITE	III		S		20	OO		TOL
	VICKERY	II	E, R	R		2168	I	E	
	WEBER	I		S		2181	II		
	WELLS II	II	E, R	R	<b>NAPB (AGRIPRO)</b>				
<b>ASGROW</b>						AP10	I		R
	A1564	I		R		AP120	I		R
	A1937	I	R	R		AP200	II	E	R
	A2575	II		R		AP240	II	E	R
	A2680	II		S	<b>NORTHROP KING</b>				
	A3127	III		S		S1346	I	E, R	TOL
<b>CALLAHAN</b>						S1460	I		S
	1250	II		S		S1492	II	E, R	TOL
	1260	II		R		S1884	I+		R
	3210	II		S		S3031	III-		TOL
	3310	III		S	<b>PIONEER</b>				
	9160	I	R	R		1282	I-		R
<b>DAIRYLAND</b>						2480	II		R
	DSR-120	I-	E	TOL		9220 BRAND	II-		50R, 50S
	DSR-141	I	E	TOL	<b>PRO-SEEDS (PROSOY)</b>				
	DSR-171	I+	E, R	TOL		PS 104	I		R
	DSR-207	II	E	TOL		PS 210	II-		R
	DSR-212	II	E	TOL		PS 234	II		R
	DSR-227	II+		TOL		PS 246	II+		R
	DSR-232	II+	E	S		PS 332	III		R
	DSR-303	III-		TOL	<b>RUPP</b>				
	DSR-312	III-		R		RS2300	II	E	TOL
	DSR-320	III		TOL		RS2330	II		TOL
	83-133	I		R, TOL		EXP. 171E	I		TOL
	83-201	II-		TOL	<b>SOYBEAN RESEARCH FOUNDATION</b>				
<b>DEKALB-PFIZER</b>						SRF205	II	E	R
	CB200	II		50R, 50S	<b>W.G. THOMPSON (HYLAND)</b>				
	CX155	I	E	S		CRUSADER	I		TOL
	CX273	II	E	R		T8112	II		TOL
	EX19	I		S	<b>VORIS</b>				
	EX2004	I		R		V207	II-	E	R
	EX2009	II		S		V247	II	E	R
	EX2011	III		S		V251	II+		R
						V285	II+		R

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