

1982 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 (Monroe County) and Central Michigan (Saginaw County). Similar trials were conducted in Sanilac and Berrien Counties. Smaller trials were conducted in Menominee and Alger Counties.

Testing Procedures

Commercial varieties were obtained from seed companies. No attempt was made to include commercial varieties not voluntarily entered in the 1982 trials. Public varieties were supplied by the Michigan Foundation Seed Association. Table 12 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 six 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.

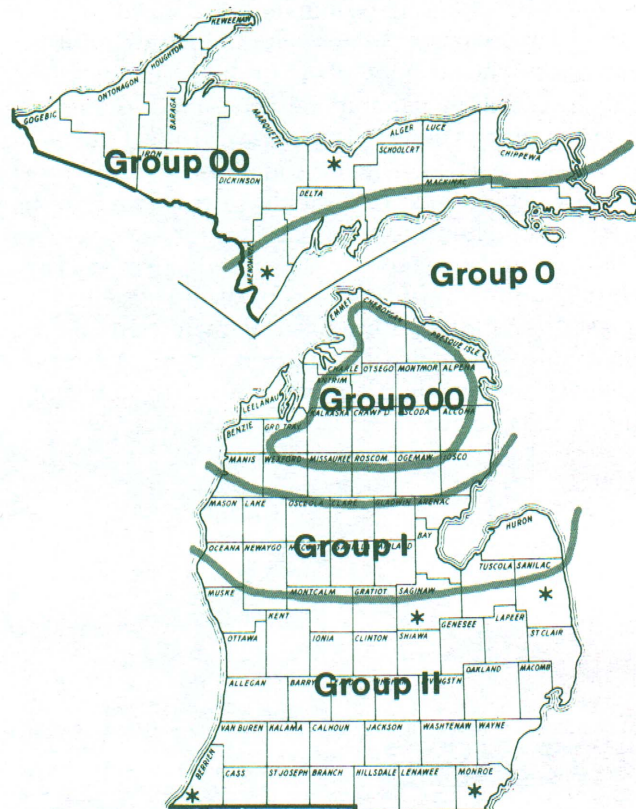
MATURITY DATE — Entries were considered mature when 95% of the pods were a mature pod color and would crack under finger pressure. Additional

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

SCLEROTINIA — Sclerotinia stem rot (white mold) was rated in Saginaw County according to the following scale:

1. Less than 1% of the plants infected
2. 1% to 25% of the plants infected
3. 25% to 60% of the plants infected
4. 60% to 90% of the plants infected
5. Over 90% of the plants infected

Results

Tables 2 through 11 show results of the 1982 variety trials. Values given are the averages of all replications at each location.

Growing conditions varied between locations. In Monroe County, generally low yields throughout the trial may be the result of an extended period of dry weather in August. In Saginaw County, the presence of sclerotinia stem rot (white mold) reduced soybean yield in many plots. Tables 4 and 5 include information on the occurrence of white mold in the trials. This information is included to give a more complete report of the trial since the disease did affect the yield of certain varieties. This information is not intended to represent varietal differences in resistance to the disease and should not be used for that purpose. In Sanilac County, the trial was exposed to wet soil conditions in June, resulting in depressed yields and increased variability within the trial. In Berrien County, planting was delayed by intermittent rains in May, however the location had good growing conditions during the season.

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



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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 1982 performance trials, except the 1981-82 and 1980-82 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	Saginaw	Sanilac	Berrien	Menominee	Alger
<i>CES Director/Agent</i>	F. Paul Nevel Paul F. Marks	Harold R. Ferris Steve S. Poindexter	A. Rex Sieting Mark W. Stephenson	James R. Neibauer Richard M. Hodupp	Richard A. Breyer	John M. Middleton
<i>Farmer Cooperator</i>	Larry Metz	Glen R. Arnst	Mezo Farms (Frank and Paul)	Sherrill Brothers (Robert and Ronald)	Dr. Streffling	U.P. Experiment Station
<i>Address</i>	3974 Geiger Road Ida	17595 Centerview Rd. Brant	1640 W. Walker Rd. Sandusky	RR 2, Box 136 Three Oaks	Stephenson	Chatham
<i>Soil Type</i>	Pewamo Clay Loam	Parkhill-Kilmanagh Loam	Parkhill Loam	Kibbie Loam and Crosier Silt Loam	Emmet Sandy Loam	Stoney Loam
<i>Soil Management Group</i>	1.5c	2.5c	2.5c	2.5b-s and 2.5b	2.5b	2.5b
<i>Previous Crop</i>	Corn	Dry Beans	Corn	Corn	Dry Beans	Barley
<i>Fertilizer</i>	275# 6-24-24 (3%Mn)	250# 6-24-24	200# 8-32-16 (3%Mn)	100# 0-0-60 25# 34-0-0	300# 12-24-24	300# 12-24-24
<i>Planting Date</i>						
Early to Medium Maturity	5-12-82	6-3-82	6-3-82	6-14-82	5-27-82	5-26-82
Medium to Late Maturity	5-12-82	5-27-82	6-3-82	6-14-82		
<i>Harvest Date</i>						
Early to Medium Maturity	9-22-82	10-18-82	10-26-82	10-13-82		
Medium to Late Maturity	10-8-82	10-19-82	10-26-82	10-13-82	10-8-82	10-25-82

TABLE 2. Southeastern Michigan, Early to Medium Maturity, 1982 — Monroe County, 1980-81 — Lenawee County.

Brand	Entry	1982 Yield (Bu/A)	1981-1982 Avg. Yield (Bu/A)	1980-1982 Avg. Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)
NK	S1884	56.0*	---	---	9-23	1.0	31	2994
Asgrow	A1937	51.0*	51.4	---	9-19	2.0	32	3034
Hyland	**Hawk	50.8	50.1	---	9-23	2.0	27	2856
Prosoy	PS104	50.1	53.8	52.8	9-21	1.3	33	3148
NAPB	EX3016	49.2	---	---	9-23	2.0	37	2570
Public	**Hodgson 78	49.0	48.5	49.6	9-17	1.7	33	2892
Public	**Hardin	48.4	52.2	52.9	9-24	1.7	34	3212
Dairyland	**DSR-171	47.5	48.4	---	9-23	2.0	34	3054
Public	**Lakota	47.5	46.2	48.8	9-21	3.0	40	3132
Callahan	9160	47.3	50.3	51.4	9-20	1.3	33	3121
Public	**Weber	46.7	---	---	9-25	2.0	32	3697
King Grain	2168	46.5	---	---	9-17	1.3	32	2505
Asgrow	A1564	46.1	48.0	48.0	9-16	1.3	34	2791
Hyland	Crusader	46.1	---	---	9-15	2.0	33	3083
Dairyland	**DSR-141	44.3	47.1	47.4	9-20	2.0	34	2906
Public	**Evans (MG-O)	44.0	44.8	45.2	9-16	1.0	30	2955
SRF	**SRF101	43.9	---	---	9-13	1.0	23	3432
King Grain	**B186 (Prestige)	43.7	---	---	9-15	2.0	33	3027
AVERAGE		47.8			9-20	1.7	32	
LSD (.05)		5.2			3	0.6	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, 1983.

TABLE 3. Southeastern Michigan, Medium to Late Maturity, 1982 — Monroe County, 1980-81 — Lenawee County.

Brand	Entry	1982 Yield (Bu/A)	1981-1982 Avg. Yield (Bu/A)	1980-1982 Avg. Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)
King Grain	B220	50.7*	50.3	53.5	9-15	1.0	34	2955
Public	**Vickery	50.6*	51.0	53.8	9-13	3.0	39	3190
Jacques	J-103	50.2*	53.8	---	9-16	1.3	29	2944
Agripro	**AP200	49.5*	48.8	50.4	9-11	2.0	36	2925
Funk	G-3250	49.5*	---	---	9-18	1.3	32	2785
Public	**Harcor	49.2*	50.9	51.7	9-18	2.7	42	3276
Greenland	GL2810	48.9*	---	---	9-20	1.0	32	3041
Public	**Corsoy	48.9*	51.4	51.2	9-14	2.3	38	3061
NAPB	EX73053-13	48.6*	---	---	9-20	1.3	33	2944
Public	**Corsoy 79	48.5*	51.1	52.4	9-14	2.7	41	3200
King Grain	2181	48.4*	---	---	9-16	2.0	41	3531
Pfizer	CB200	48.4*	---	---	9-16	2.0	39	3125
Pioneer	9220 Brand	48.3*	---	---	9-16	2.0	38	3068
Public	**Amcor	48.2*	51.6	52.3	9-20	3.0	41	2925
Migro	HP20-20	48.1*	50.9	53.4	9-11	1.3	36	2698
Callahan	3310 (MG-III)	48.0*	---	---	9-23	2.0	37	3036
Callahan	9240R	47.8*	---	---	9-16	1.7	36	2736
GLH	XP2034	47.7*	53.3	---	9-22	2.0	37	2894
Dairyland	**DSR-207	47.5*	49.7	50.3	9-18	1.0	34	2683
Voris	247	47.4*	52.5	53.9	9-14	1.0	30	2693

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TABLE 3. Southeastern Michigan, Medium to Late Maturity, 1982 — Monroe County, 1980-81 — Lenawee County, cont.

Brand	Entry	1982 Yield (Bu/A)	1981-1982 Avg. Yield (Bu/A)	1980-1982 Avg. Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)
Pfizer	EX2001	47.1*	---	---	9-21	2.0	38	2632
Public	**Century	46.9*	50.3	53.4	9-19	1.0	34	2575
Rupp	RS2641	46.8*	---	---	9-19	2.3	38	2991
Voris	207	46.7*	51.1	51.7	9-10	1.0	35	3285
SRF	SRF205	46.7*	49.5	---	9-13	1.3	33	3124
NK	**S2596	46.6*	51.3	53.3	9-15	1.3	31	2704
Rupp	RS2300	46.6*	51.1	52.2	9-13	1.0	35	2985
Asgrow	A2680	46.6*	---	---	9-19	1.3	33	3216
GLH	GL2250	46.5*	50.0	49.4	9-17	1.3	37	2741
Dairyland	DSR-320 (MG-III)	46.4*	---	---	9-23	1.7	36	2887
Rupp	RS2330	46.4*	---	---	9-21	1.0	33	2614
Asgrow	A2575	46.2*	49.6	54.7	9-16	1.0	35	3035
Callahan	3200	46.0*	---	---	9-12	1.3	36	3010
Prosoy	PS234	45.8*	51.1	54.4	9-18	1.0	36	2703
Dairyland	**DSR-232	45.7*	48.0	51.3	9-21	2.0	38	2873
Asgrow	A2858	45.5*	48.1	50.5	9-20	1.0	32	2496
Public	**Gnome	45.4*	47.7	49.7	9-21	2.0	27	3143
GLH	GL2552	45.4*	---	---	9-19	2.0	38	3220
King Grain	**Premier (B216)	45.4*	---	---	9-12	1.0	33	3139
Public	**Beeson 80	45.4*	48.7	50.6	9-19	1.3	34	2527
Callahan	9330 (MG-III)	45.3*	53.5	57.2	9-24	2.3	38	2770
King Grain	B203 (PR119403)	45.3*	48.6	---	9-13	1.3	32	3194
Dairyland	DSR-227	45.2*	47.4	---	9-18	2.0	37	3025
Pfizer	CX290	45.2*	46.3	47.8	9-22	2.3	36	2804
Public	**Amsoy 71	45.1*	48.2	51.0	9-18	2.0	41	2719
Pfizer	EX1147 (MG-III)	45.0*	---	---	9-24	2.0	37	3140
Rupp	RS2617	45.0*	---	---	9-19	2.0	42	2528
Voris	285	44.9*	49.5	52.5	9-22	2.0	41	2655
NK	**S1492	44.7*	48.5	51.6	9-16	1.3	34	3034
Migro	HP-2530	44.7*	49.8	---	9-15	1.3	30	3034
SRF	**SRF250	44.5*	49.5	51.8	9-20	1.0	31	3276
Greenland	GL2900	44.2*	---	---	9-22	2.0	40	2656
Agripro	AP230	44.0	47.3	---	9-19	1.0	29	2687
Rupp	RS2460	43.9	51.3	---	9-20	1.7	35	3076
Dairyland	DSR-312 (MG-III)	43.7	---	---	9-24	3.0	44	2814
NK	**S09-90 (MG-0)	43.7	---	---	9-07	1.0	33	3007
Prosoy	PS332 (MG-III)	43.5	55.2	57.6	9-24	2.7	41	2854
GLH	GL2317	43.4	47.5	---	9-19	1.7	42	2529
Public	**Nebsoy	43.2	47.6	48.6	9-15	1.0	32	2852
Dairyland	DSR-212	43.2	---	---	9-12	1.0	29	2618
Agripro	AP240	43.1	---	---	9-20	1.0	28	3218
Prosoy	PS246	42.7	48.6	---	9-19	2.0	36	2556
Dairyland	DSR-303 (MG-III)	42.5	---	---	9-25	3.0	39	2819
Funk	G-3236	42.3	---	---	9-18	1.3	34	2514
Voris	B202	41.4	47.4	50.5	9-16	1.3	35	3136
Greenland	GL2000	40.9	---	---	9-15	1.0	31	2651
Pfizer	CX276	40.9	51.1	53.8	9-19	1.7	41	2775
Voris	251	40.6	---	---	9-16	2.0	35	3088
Public	**Wells II	39.1	46.2	49.1	9-16	1.0	33	2924
Prosoy	PS201	38.5	47.7	50.2	9-17	1.0	31	2736
	AVERAGE	45.7			9-18	1.6	35	
	LSD (.05)	6.6			3	0.7	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 Michigan, 1983.

TABLE 4. Central Michigan, Early to Medium Maturity, 1982 — Saginaw County, 1980-81 — Gratiot County.

Brand	Entry	1982 Yield (Bu/A)	1981-1982 Avg. Yield (Bu/A)	1980-1982 Avg. Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)	White mold
NK	S1884	59.4*	---	---	10-4	3.3	40	2984	1.7
Public	**Hardin	59.1*	58.4	58.4	10-3	3.8	40	3203	1.4
Asgrow	A1937	58.4*	58.6	---	10-1	2.0	40	2873	1.3
Public	**Hodgson 78	56.2*	55.0	52.6	9-28	2.0	40	2904	1.3
Callahan	9160	55.8*	57.2	56.8	10-1	4.3	44	2856	2.0
NAPB	EX3016	55.1*	---	---	10-5	2.0	44	2600	1.0
Hyland	Crusader	54.9*	---	---	9-27	1.7	38	2862	1.0
Hyland	**Hawk	53.7*	53.8	54.3	10-5	4.0	32	2720	2.7
King Grain	2168	51.9*	---	---	9-28	2.3	40	2601	1.0
NK	**S1346	51.7*	53.0	51.6	10-2	2.0	32	2764	1.0
Prosoy	PS104	51.7*	54.8	54.8	10-1	3.7	38	2884	2.0
GLH	GL1858	51.4*	---	---	10-3	3.0	38	2665	1.3
Public	**Evans (MG-0)	50.1	48.4	47.8	9-23	2.3	36	2874	1.0
Agripro	AP10	49.0	---	---	10-2	3.0	39	2905	1.3
Agripro	AP120	48.8	---	---	9-23	1.7	36	3041	1.0
Dairyland	**DSR-171	48.0	53.3	52.1	10-3	3.3	38	2814	2.0
Pfizer	CX155	47.5	49.5	50.3	10-3	2.7	39	3160	1.7
Asgrow	A1564	47.3	53.0	53.0	10-2	3.3	41	2798	1.3
Dairyland	**DSR-141	46.8	52.1	50.1	10-1	2.0	39	2752	1.0
Dairyland	**DSR-120	46.0	47.1	48.2	9-26	1.3	33	2853	1.3
Asgrow	A1179	45.5	45.6	---	9-28	1.7	39	3083	1.0
NK	X701043	45.3	---	---	9-30	1.0	31	3146	1.0
SRF	**SRF101	44.6	45.8	47.8	9-25	1.0	29	3438	1.0
Public	**Weber	43.7	---	---	10-4	4.3	41	3468	2.7
Public	**Lakota	43.5	47.5	---	10-1	4.3	40	3259	2.0
Jacques	77-1633	40.1	---	---	10-1	1.7	38	3055	1.0
King Grain	**B186 (Prestige)	31.8	---	---	9-25	1.3	32	3074	1.0
AVERAGE		49.7			9-30	2.6	38		
LSD (.05)		8.8			3	1.4	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 Michigan, 1983.

TABLE 5. Central Michigan, Medium to Late Maturity, 1982 — Saginaw County, 1980-81 — Gratiot County.

Brand	Entry	1982 Yield (Bu/A)	1981-1982 Avg. Yield (Bu/A)	1980-1982 Avg. Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)	White mold
Agripro	**AP200	67.3*	58.9	57.6	10-2	3.3	40	2734	1.3
SRF	SRF205	64.5*	58.8	---	10-7	4.0	40	2888	1.0
Pfizer	CB200	60.6*	53.5	52.4	10-9	3.7	46	2883	1.0
King Grain	2181	60.2*	---	---	10-6	3.0	45	3306	1.3
Funk	G-3236	59.4*	---	---	10-10	4.0	39	2717	2.3
Rupp	RS2300	59.3*	53.0	52.4	10-5	3.0	41	2630	1.7
Public	**Harcor	59.2*	55.7	55.8	10-7	4.3	44	3004	1.0
Voris	207	58.9*	57.2	55.6	10-4	3.7	45	2817	1.0
Public	**Vickery	58.6*	52.8	52.8	10-5	4.0	43	2898	1.3
King Grain	B203 (PR119403)	58.6*	53.7	---	10-8	2.7	36	2879	1.3

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TABLE 5. Central Michigan, Medium to Late Maturity, 1982 — Saginaw County, 1980-81 — Gratiot County, cont.

Brand	Entry	1982 Yield (Bu/A)	1981-1982 Avg. Yield (Bu/A)	1980-1982 Avg. Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)	White mold
Asgrow	A2575	57.2*	51.6	51.3	10-6	2.7	40	2800	1.0
Migro	HP-2530	57.1*	51.5	---	10-8	2.7	38	2544	1.7
NK	** S1492	56.4*	53.0	51.6	10-11	3.0	36	2931	1.3
Prosoy	PS201	56.0*	48.8	---	10-11	1.3	40	2606	1.0
Pfizer	EX2001	55.8*	---	---	10-12	3.0	40	2377	2.0
Public	** Amcor	55.4	51.2	49.6	10-9	4.3	46	2859	1.0
GLH	GL2552	55.4	---	---	10-12	3.0	44	3041	1.3
Rupp	RS2460	55.4	53.0	---	10-10	2.3	38	2794	1.3
Voris	B202	55.4	---	---	10-6	2.3	37	2718	1.3
Voris	247	54.7	49.6	52.5	10-7	2.3	35	2437	1.7
NK	** S09-90 (MG-0)	54.6	52.2	51.1	9-30	2.3	37	2604	1.0
Public	** Wells II	54.2	50.2	51.1	10-8	1.3	40	2768	1.3
Pioneer	9220 Brand	53.9	---	---	10-7	2.7	41	2735	1.3
Public	** Century	53.0	49.9	51.9	10-10	4.0	45	2411	2.7
Callahan	9240R	52.8	51.8	---	10-9	3.0	40	2570	1.3
Public	** Beeson 80	52.2	49.0	48.3	10-10	3.3	37	2262	2.0
King Grain	** Premier (B216)	51.7	---	---	10-7	2.7	36	2815	1.3
Dairyland	DSR-212	51.5	---	---	10-12	2.0	36	2566	1.3
Asgrow	A2680	51.4	---	---	10-6	3.0	37	3070	1.3
Public	** Nebsoy	51.2	49.0	49.7	10-8	2.7	37	2637	1.3
Public	** Corsoy 79	50.5	50.2	52.4	10-6	4.7	48	2816	1.7
Callahan	3200	50.4	---	---	10-2	5.0	42	3048	2.7
Public	** Corsoy	50.3	49.8	50.5	10-5	2.7	40	3037	1.0
GLH	GL2250	49.5	49.9	51.0	10-9	1.7	41	2589	1.0
Dairyland	** DSR-207	49.0	47.2	49.1	10-9	2.0	34	2447	1.0
King Grain	B220	48.9	48.9	50.2	10-10	2.3	38	2703	1.0
NK	** S2596	48.6	47.6	52.5	10-11	1.7	32	2501	1.3
Voris	251	48.4	---	---	10-10	2.3	38	2699	1.0
Prosoy	PS246	48.3	47.8	---	10-13	2.3	40	2308	1.0
Rupp	RS2330	47.6	---	---	10-11	1.7	35	2733	1.0
Rupp	RS2617	47.1	---	---	10-15	2.7	42	2096	1.0
Funk	G-3250	47.1	---	---	10-7	4.0	36	2752	2.0
Prosoy	PS234	47.0	48.6	50.8	10-8	2.7	41	2544	1.0
Rupp	RS2641	46.5	---	---	10-10	2.3	38	2709	1.7
Public	** Amsoy 71	46.5	47.4	49.8	10-11	1.6	41	2609	1.0
Migro	HP20-20	46.5	47.4	49.6	10-5	2.7	39	2547	1.0
GLH	XP3458	46.1	---	---	10-9	1.7	36	2582	1.3
GLH	GL2317	45.6	47.6	---	10-13	2.3	43	2275	1.0
Callahan	1250	44.6	48.0	---	10-12	2.7	38	2856	1.7
SRF	** SRF250	42.7	---	---	10-10	1.3	39	3417	1.3
Dairyland	DSR-227	39.4	---	---	10-9	3.0	39	3069	1.7
Dairyland	** DSR-232	36.6	43.6	---	10-8	3.0	34	2803	1.0
AVERAGE		51.6			10-8	2.8	39		
LSD (.05)		11.8			3	1.3	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, 1983.

TABLE 6. Sanilac County, Early to Medium Maturity, 1982.

Brand	Entry	1982 Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)
Public	** Evans (MG-0)	43.8*	9-30	1.0	24	3011
Public	** Hardin	43.2*	10-7	1.0	22	3343
NK	S1884	42.5*	10-9	1.0	28	3377
Dairyland	** DSR-141	42.1*	10-8	1.0	28	2937
Dairyland	** DSR-120	42.1*	10-4	1.0	23	2994
NK	X701043	41.3*	10-8	1.0	22	3082
GLH	GL1858	41.1*	10-8	1.0	26	3163
Pfizer	CX155	41.0*	10-8	1.0	28	3370
Asgrow	A1937	40.6*	10-5	1.0	26	3418
Jacques	77-1633	40.4*	10-4	1.0	25	3483
King Grain	2168	40.4*	10-3	1.0	28	2883
Public	** Weber	39.6*	10-5	1.0	28	4030
Callahan	9160	39.4*	10-7	1.0	25	3489
Dairyland	** DSR-171	39.1*	10-5	1.0	28	3697
King Grain	** B186 (Prestige)	38.5*	10-1	1.0	26	3449
Hyland	** Hawk	37.6	10-9	1.0	22	3042
Agripro	EX3016	37.1	10-4	1.0	31	3207
Prosoy	PS104	36.7	10-7	1.0	23	3565
Public	** Lakota	35.8	10-3	1.0	25	3455
Asgrow	A1564	35.4	10-3	1.0	25	3328
Hyland	Crusader	33.8	10-1	1.0	24	3244
Asgrow	A1179	32.8	10-1	1.0	20	3278
SRF	** SRF101	32.6	10-1	1.0	20	3763
Public	** Hodgson 78	32.6	10-6	1.0	23	2885
Agripro	AP10	31.6	10-5	1.0	23	3331
NK	** S1346	26.9	10-2	1.0	20	3473
Agripro	AP120	26.5	9-28	1.0	20	3553
	AVERAGE	37.4	10-5	1.0	24	
	LSD (.05)	6.1	3	0.0	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, 1983.

TABLE 7. Sanilac County, Medium to Late Maturity, 1982.

Brand	Entry	1982 Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)
Pfizer	EX2001	40.5*	10-11	1.0	32	2846
Rupp	RS2330	40.4*	10-13	1.0	33	2820
Dairyland	** DSR-232	40.0*	10-11	1.4	38	3205
Dairyland	DSR-227	39.9*	10-9	1.0	34	3499
Public	** Amsoy 71	39.4*	10-13	1.0	41	2984
Callahan	1250	39.4*	10-10	1.0	31	3385
Voris	247	39.3*	10-9	1.0	30	3208
GLH	GL2552	37.4*	10-13	1.0	30	3961
Public	** Gnome	37.2*	10-13	1.3	26	3334
Rupp	RS2460	37.2*	10-8	1.0	32	3446
Voris	251	37.2*	10-11	1.0	29	3057
King Grain	B203 (PR119403)	37.0*	10-8	1.0	29	3679
GLH	GL2250	36.9*	10-11	1.3	36	2852
Pioneer	9220 Brand	36.8*	10-7	1.0	35	3522
Rupp	RS2300	36.6*	10-4	1.0	33	3377
Rupp	RS2641	36.6*	10-10	1.3	34	3143

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TABLE 7. Sanilac County, Early to Medium Maturity, 1982, cont.

Brand	Entry	1982 Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)
Public	** Harcor	36.3*	10-6	1.3	36	3648
NK	** S1492	36.2*	10-11	1.1	32	3831
Dairyland	DSR-212	36.1*	10-8	1.0	29	2859
SRF	** SRF250	36.1*	10-10	1.1	31	4004
NK	** S2596	36.0*	10-12	1.0	31	2992
Public	** Vickery	35.6*	10-7	1.7	39	3536
GLH	GL2317	35.5*	10-13	1.4	40	2797
Asgrow	A2575	35.5*	10-11	1.1	35	3564
Voris	B202	35.4*	10-5	1.3	37	3557
Pfizer	CB2000	35.1*	10-6	1.1	38	3631
Voris	207	35.0*	10-5	1.3	34	3722
Callahan	3200	34.9*	10-7	1.0	32	3489
King Grain	B220	34.5*	10-8	1.0	29	3430
Migro	HP-2530	34.4*	10-8	1.0	28	3311
Prosoy	PS201	34.3*	10-9	1.0	28	3498
Public	** Amcor	34.2*	10-11	1.4	36	3194
Public	** Century	34.0*	10-10	1.0	30	3234
Public	** Corsoy	34.0*	10-6	1.4	35	3492
Prosoy	PS246	33.9	10-11	1.1	33	2921
King Grain	** Premier (B216)	33.9	10-8	1.0	30	3647
Public	** Beeson 80	33.8	10-11	1.0	32	2799
Public	** Wells II	33.8	10-7	1.0	31	3500
Dairyland	** DSR-207	33.6	10-9	1.0	33	3333
Agripro	** AP200	33.4	10-7	1.1	31	3350
Migro	HP20-20	33.4	10-5	1.0	34	3216
Funk	G-3250	33.3	10-9	1.0	27	3541
GLH	XP3458	33.3	10-8	1.0	33	3388
Prosoy	PS234	32.9	10-10	1.0	32	3439
NK	** S09-90 (MG-0)	32.8	9-28	1.0	27	3307
Callahan	9240R	32.7	10-12	1.0	27	3374
Rupp	RS2617	32.7	10-11	1.0	34	2875
Public	** Corsoy 79	32.7	10-7	1.0	29	3560
Asgrow	A2680	32.5	10-7	1.0	35	3718
Funk	G-3236	31.6	10-10	1.0	28	3129
King Grain	2181	29.9	10-8	1.0	32	4253
Public	** Nebsoy	28.6	10-8	1.0	29	3635
SRF	SRF205	28.2	10-10	1.0	23	3949
	AVERAGE	35.1	10-9	1.1	32	
	LSD (.05)	6.6		0.4	8	

*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, 1983.

TABLE 8. Berrien County, Early to Medium Maturity, 1982.

<i>Brand</i>	<i>Entry</i>	<i>1982 Yield (Bu/A)</i>	<i>1982 Maturity Date</i>	<i>Lodging</i>	<i>Height (inches)</i>	<i>Seed Size (seeds/lb)</i>
Callahan	9160	47.3*	9-24	1.0	33	3213
NK	S1884	47.3*	9-25	1.7	35	3111
Public	** Weber	47.1*	9-27	1.7	32	3406
Asgrow	A1564	46.9*	9-25	1.0	34	2987
Asgrow	A1937	46.5*	9-26	1.7	34	3198
Hyland	** Hawk	46.3*	9-24	1.3	28	2945
Public	** Hodgson 78	46.2*	9-22	1.7	33	3013
Dairyland	** DSR-171	45.7*	9-26	1.3	36	3194
Dairyland	** DSR-141	44.6*	9-27	2.0	34	2891
Hyland	Crusader	43.1*	9-22	1.7	33	3091
Public	** Hardin	42.6*	9-26	2.3	33	3370
NAPB	EX3016	41.5*	9-28	1.7	33	2657
Public	** Lakota	41.1*	9-27	2.0	36	3366
King Grain	2168	40.2*	9-24	1.3	34	2793
Public	** Evans (MG-0)	35.8	9-23	1.3	31	3165
King Grain	** B186 (Prestige)	34.6	9-26	1.3	32	3298
Prosoy	PS104	34.5	9-22	1.0	28	3291
SRF	** SRF101	30.7	9-22	1.0	22	3845
AVERAGE		43.3	9-25	1.5	32	
LSD (.05)		7.2	3	0.8	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, 1983.

TABLE 9. Berrien County, Medium to Late Maturity, 1982.

<i>Brand</i>	<i>Entry</i>	<i>1982 Yield (Bu/A)</i>	<i>1982 Maturity Date</i>	<i>Lodging</i>	<i>Height (inches)</i>	<i>Seed Size (seeds/lb)</i>
GLH	XP3458	56.2*	10-4	2.0	36	2948
Callahan	3310 (MG-III)	54.1*	10-7	2.0	36	3097
Pfizer	EX1147 (MG-III)	52.6*	10-7	2.0	37	3056
Public	** Gnome	52.4*	10-5	1.7	23	2851
Public	** Harcor	52.4*	9-29	2.3	38	3155
Public	** Corsoy 79	52.2*	10-1	2.3	40	3027
Voris	B202	51.8*	9-28	2.0	38	2975
Dairyland	DSR-303 (MG-III)	51.1*	10-7	3.0	38	2713
Greenland	GL2000	50.9*	9-28	1.3	34	2601
Pfizer	EX2001	50.6*	10-4	1.7	36	2552
Public	** Vickery	50.4*	9-30	3.0	38	3183
Greenland	GL2900	50.3*	10-8	2.3	39	2593
Callahan	9330 (MG-III)	50.2*	10-7	2.7	40	2729
Agripro	** AP200	50.1*	9-26	2.0	37	3002
Public	** Beeson 80	49.8*	9-29	1.3	32	2487
Migro	HP-2530	49.3*	9-29	1.3	30	2838
Prosoy	PS246	49.3*	10-2	1.3	33	2513
Pioneer	9220 Brand	49.2*	9-28	2.0	33	2994
Prosoy	PS332 (MG-III)	48.9*	10-7	3.0	39	2724
Greenland	GL2810	48.7	10-5	1.7	35	2949

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TABLE 9. Berrien County, Medium to Late Maturity, 1982, cont.

Brand	Entry	1982 Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)
GLH	GL2552	48.7	10-3	1.3	34	3468
Dairyland	** DSR-232	48.6	10-4	2.0	35	2861
Asgrow	A2575	48.5	9-27	1.0	36	3047
NK	** S2596	48.4	9-30	1.0	28	2576
Asgrow	A2858	48.1	10-4	1.0	32	2394
Rupp	RS2300	48.0	9-29	1.0	35	2799
Pfizer	CX276	47.9	10-4	2.3	39	2598
Dairyland	DSR-320 (MG-III)	47.7	10-7	1.3	36	2821
NK	** S1492	47.6	10-1	1.0	32	3241
Pfizer	CX290	47.4	10-7	2.7	37	2650
Funk	G-3236	47.4	10-4	1.7	35	2477
Rupp	RS2330	47.3	10-4	1.3	33	2882
Jacques	J-103	47.3	10-3	1.3	31	2983
Rupp	RS2460	47.2	10-4	1.7	34	3032
Voris	251	47.0	10-3	2.0	35	2968
Agripro	AP240	46.9	10-3	1.0	28	3277
Public	** Wells II	46.7	9-27	1.0	32	3014
King Grain	2181	46.6	10-1	1.7	36	3652
Callahan	9240R	46.5	9-27	1.0	34	2848
Voris	207	46.5	9-27	1.0	35	3268
GLH	GL2317	46.3	10-5	1.7	40	2245
Agripro	AP230	46.2	10-3	1.0	29	2556
Funk	G-3250	46.1	10-1	1.0	33	2943
Dairyland	** DSR-207	46.0	10-1	1.3	30	2672
Public	** Century	46.0	10-3	1.3	35	2459
Voris	247	45.9	9-27	1.0	30	2821
Rupp	RS2641	45.6	10-2	1.3	33	3083
Migro	HP20-20	45.5	9-27	1.7	34	2862
Rupp	RS2617	45.2	10-3	1.7	40	2346
Public	** Corsoy	45.2	9-29	2.3	36	3163
Pfizer	CS200	44.5	10-1	2.3	34	3176
Public	** Amsoy 71	44.5	10-1	2.7	36	2725
King Grain	B220	44.5	9-27	1.0	31	2923
Voris	285	44.4	10-6	2.3	41	2550
Callahan	3200	44.4	9-27	1.0	34	3392
NAPB	EX73053-13	44.2	10-3	1.3	32	3035
Prosoy	PS234	44.0	9-29	1.7	35	2722
SRF	SRF205	43.5	9-28	1.3	33	3190
Public	** Amcor	43.5	10-4	3.0	38	2833
King Grain	** Premier (B216)	43.4	10-1	1.3	32	3036
Dairyland	DSR-312 (MG-III)	43.4	10-8	2.7	45	2703
Dairyland	DSR-227	43.3	9-30	1.7	34	3105
Public	** Nebsoy	42.8	9-28	1.0	31	2985
Prosoy	PS201	42.8	9-30	1.0	30	2946
GLH	GL2250	41.9	9-30	1.7	34	2743
Dairyland	DSR-212	41.7	9-30	1.3	31	2610
King Grain	B203 (PR119403)	41.0	9-27	1.0	29	3361
SRF	** SRF250	40.2	10-2	1.0	28	3380
Asgrow	A2680	39.8	9-28	1.3	32	3181
NK	** S09-90 (MG-0)	33.8	9-26	1.3	29	3180
	AVERAGE	46.9	10-2	1.6	34	
	LSD (.05)	7.4	3	0.8	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 Michigan, 1983.

TABLE 10. Menominee County, 1982.

Brand	Entry	1982 Yield (Bu/A)	1981-1982 Avg. Yield (Bu/A)	1980-1982 Avg. Yield (Bu/A)	1982 Maturity Date	Lodging	Height (inches)	Seed Size (seeds/lb)
Public	McCall	39.3*	34.0	32.4	9-15	2.2	32	3783
Public	Maple Amber	37.2*	---	---	9-8	1.5	29	3363
Public	**Maple Arrow	35.1*	33.6	35.8	9-13	2.1	35	2929
Public	Portage	32.7	---	---	9-9	2.0	28	3603
Public	Maple Presto	29.3	24.7	---	9-4	1.4	27	3466
Public	Clay	27.5	27.0	28.4	9-15	2.4	39	4054
King Grain	KG08009	26.2	---	---	9-8	1.5	31	3752
AVERAGE		32.5			9-10	1.9	32	
LSD (.05)		5.9						

*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, 1983.

TABLE 11. Alger County, 1982.*

Brand	Entry	1982 Yield (Bu/A)	Lodging	Height (inches)	Seed Size (seeds/lb)
King Grain	KG08009	41.3	1.5	29	3027
Public	Maple Amber	37.4	1.0	27	3243
Public	**Maple Arrow	33.7	1.5	31	3783
Public	Maple Presto	32.5	1.0	28	3027
Public	McCall	24.7	2.5	30	3492
Public	Portage	19.2	2.0	32	4540
Public	Clay	10.2	2.0	28	4127
AVERAGE		28.4	1.6	29	3606
LSD (.05)		7.1			

*Soybean yield and seed size of some varieties were reduced by a killing frost prior to maturity.

**Varieties preceded by double asterisks are eligible for certification in Michigan, 1983.

TABLE 12. Seed Sources.

Source	Brand	Entry	Source	Brand	Entry
Asgrow Seed Co. Kalamazoo, MI	Asgrow	A1179, A1564, A1937, A2575, A2680, A2858	Northrup King Co. New Hope, MN	NK	S1346, X701043, S1492, S2596, S09-90, S1884
Callahan Seeds Westfield, IN	Callahan	1250, 3200, 3310, 9160, 9240R, 9330	Pfizer Genetics Windfall, IN	Pfizer	CX155, CB200, CX276, CX290, EX1147, EX2001
Dairyland Seed Co. West Bend, WI	Dairyland	DSR-120, DSR-141, DSR-171, DSR-207, DSR-212, DSR-227, DSR-232, DSR-303, DSR-312, DSR-320	Pioneer Hybrid Int. Tipton, OH	Pioneer	9220 Brand
Funk Seeds Int'l. Bloomington, IL	Funk	G-3236, G-3250	Pro-Seed, Inc. Blissfield, MI	Prosoy	PS104, PS201, PS234, PS246, PS332
Great Lakes Hybrids Ovid, MI	GLH	GL1858, GL2250, GL2317, GL2552, XP3458, XP2034	Rupp Seed Farm Wauseon, OH	Rupp	RS2300, RS2460, RS2617, RS2330
Jacques Seed Co. Prescott, WI	Jacques	77-1633, J-103	Soybean Research Foundation Mason City, IL	SRF	SRF101, SRF205, SRF250
King Grain, LTD Chatham, Ontario	King Grain	B216 (Premier), B220, 2168, 2181, B186 (Prestige), KG08009	W. G. Thompson & Sons, LTD Blenheim, Ontario	Hyland	Hawk, Crusader
Madison Seed Co. London, OH	Greenland	GL200, GL2810, GL2900	Voris Seeds, Inc. Windfall, IN	Voris	B202, 207, 247, 285, 251
North American Plant Breeders Ames, IA & Mission, KS	Agripro NAPB Migro	AP120, AP200, AP10, AP230, AP240, EX3016, EX73053-13, HP20-20, HP-2530	Public Releases — Amcor, Amsoy 71, Beeson 80, Century, Clay, Corsoy, Corsoy 79, Evans, Gnome, Harcor, Hardin, Hodgson 78, Lakota, Maple Amber, Maple Arrow, Maple Presto, McCall, Nebsoy, Portage, Vickery, Weber, Wells II.		