

MSU Extension Publication Archive

Archive copy of publication, do not use for current recommendations. Up-to-date information about many topics can be obtained from your local Extension office.

2005 Michigan Soybean Performance Report
Michigan State University
Cooperative Extension Service
D. Wang and J.F. Boyse, Department of Crop and Soil Sciences
Issued November 2005
20 pages

The PDF file was provided courtesy of the Michigan State University Library

Scroll down to view the publication.

2005 Michigan Soybean Performance Report



Putting Your Checkoff To Work



For the 15th consecutive year, the **2005 Michigan Soybean Performance Report** is being provided to you through the investment of your **soybean checkoff**. We hope you find the results of the performance trials valuable in selecting varieties to maximize returns on next year's crop for your operation. This data can also be accessed at www.css.msu.edu/varietytrials/.

This publication is printed with soy ink and is compliments of the Michigan Soybean Promotion Committee.

Photo by Dave Fredrick, The Sandusky Tribune Location: Gerstenberger Farms, Inc. Sanilac County

Extension Bulletin E2947 • 11/05



2005 MICHIGAN SOYBEAN PERFORMANCE REPORT

D. WANG AND J. F. BOYSE, DEPARTMENT OF CROP AND SOIL SCIENCES

This report provides information on the performance of conventional and Roundup Ready soybean varieties in Michigan in 2005.

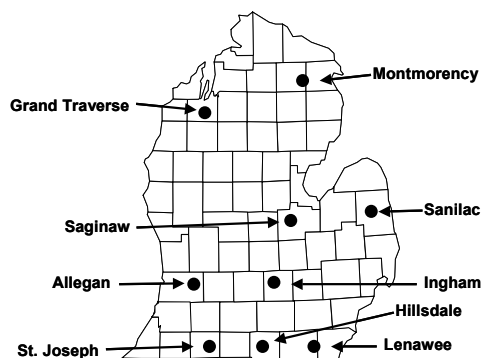
The presentation of data for the entries tested does not suggest approval or endorsement of varieties by Michigan State University.

TESTING PROCEDURES

Seven trials are reported here. The Central locations for both the conventional and the Roundup Ready trials include test sites in Saginaw, Allegan, Sanilac, and Ingham counties. The Southern locations for both the conventional and the Roundup Ready trials include test sites in Lenawee, Hillsdale, St. Joseph (Irrigated) and Ingham counties. Northern Roundup Ready trials include test sites in Grand Traverse and Montmorency counties. Thirty seed companies entered a total of 200 commercial varieties, and the Michigan Crop Improvement Association entered 3 public varieties. The cooperators, planting dates, harvest dates, and other site details for the nine locations are listed below.

Seed was planted in 6-row plots, 20 feet long with 15-inch row spacing, at a depth of 1.5-inches. The planting rate was 180,000 seeds/acre. At each location, varieties were replicated four times in a lattice design. The plots were trimmed to a length of 14 feet and the center four rows were harvested. Experimental design, data management, and data analysis were conducted with AGROBASE Generation II, (Agronomix Software, Inc., Winnipeg, Canada).

2005 Test Site County Locations



TEST SITE INFORMATION

Grand Traverse County

Nearest city: Buckley
Cooperator: Frank Lipinski
Planting date: 5-12-05
Harvest date: 10-4-05
Previous crop: Corn
Soil type: Karlin Sandy Loam
Fertilizer: 160#/A. 19-19-19
Herbicides: Pre-plant Treflan, 32 oz./A Roundup Ultra

Montmorency County

Nearest city: Hillman
Cooperator: Noel Hardies
Planting date: 5-12 -05
Harvest date: 10-11-05
Soil Type: Bergland Clay Loam
Previous crop: Corn
Herbicides: 32 oz./A Roundup Ultra

Lenawee County

Nearest city: Britton
Cooperator: David & Jason Woods
Planting date: 5-5-05
Harvest date: 9-28-05
Previous crop: Corn
Soil type: Brookston Clay Loam
Fertilizer: 250#/A 0-0-60
Herbicides: Conventional Trials – Preemerge .6 oz.
FirstRate 84DG, 1.33 pt/A Dual II Magnum
Roundup Ready Trials - 32 oz./A Roundup Ultra

Hillsdale County

Nearest city: Reading
Cooperator: Robert Lennard
Planting date: 5-3-05
Harvest date: 9-30-05
Previous crop: Corn
Soil type: Blount Silt Loam
Fertilizer: None
Herbicides: Conventional Trials – Preemerge .6 oz.
FirstRate 84DG, 1.33 pt/A Dual II Magnum
Roundup Ready Trials - 32 oz./A Roundup Ultra

St. Joseph County - Irrigated

Nearest city: Mendon
Cooperator: Roger and Anne Gentz
Planting date: 5-6-05
Harvest date: 10-7-05
Previous crop: Seed Corn
Soil type: Osthemo
Fertilizer: 150# /A 0-0-60; 75#/A 21-0-0-24
Herbicide: Conventional Trials – Preemerge 1.5#/A Lorox
50% DF, 1.33 pt/A Dual II Magnum
Roundup Ready Trials - 32 oz./A Roundup Ultra

Ingham County

Nearest city: Mason
Cooperator: Michigan State University
Planting date: 5-7-05
Harvest date: 10-10-05
Previous crop: Corn
Soil type: Capac Loam
Fertilizer: 150#/A 0-0-60
Herbicides: Conventional Trials – Preemerge 1.5#/A Lorox
50% DF, 1.33 pt/A Dual II Magnum,
Roundup Ready Trials - 32 oz./A Roundup Ultra

Allegheny County

Nearest city: Hopkins
Cooperator: Paul Puschel
Planting date: 5-17-05
Harvest date: 10-3-05
Previous crop: Corn
Soil type: Sebewa Loam
Fertilizer: 250# /A 0-0-60
Herbicides: Conventional Trials – Preemerge 1.5#/A Lorox
50%, 1.33 pt /A Dual II Magnum
Roundup Ready Trials - 32 oz./A Roundup Ultra

Saginaw County

Nearest city: Saginaw
Cooperator: Tom Hoff
Planting date: 5-10-05
Harvest date: 9-24-05
Previous crop: Wheat
Soil type: Parkhill - Kilmanagh Loam
Fertilizer: None
Herbicides: Conventional Trials – Preemerge .6oz.
FirstRate 84DG.
Roundup Ready Trials - 32 oz./A Roundup Ultra

Sanilac County

Nearest city: Sandusky
Cooperator: Gerstenberger Farms, Inc.
Planting date: 5-11-05
Harvest date: 10-5-05
Previous crop: Corn
Soil type: Parkhill Clay Loam
Fertilizer: None
Herbicides: Conventional Trials - Preemerge 1.5#/A
Lorox 50% DF, 1.33 pt/A Dual II Magnum
Roundup Ready Trials - 32 oz./A Roundup Ultra

GROWING CONDITIONS

Excellent weather conditions in early May resulted in all sites being planted by May 18th.

- **Grand Traverse** and **Saginaw** Counties had reduced yields because of dry weather during flowering.
- **Sanilac** County received approximately 4" of rain within days of planting, compacting soils and reducing stands. This resulted in a higher C.V. (coefficient of variation) for the trial.
- The **Ingham** County site was on variable soil type and had little rainfall during flowering. This resulted in a C.V. (coefficient of variation) too high for a precise trial. This trial site (Ingham County) was not included in the publication.

USING THE DATA

Results are presented in Tables 1 through 7.

Yield: Yield is expressed as bushels per acre at 13% moisture and is reported as single and across site means for 2005. Two and three year means are also presented when applicable.

Maturity Date (MAT): The reported values (month-date) represent the means (rounded to the nearest day) of all reps at all sites. 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.

Height: Plant height, reported in inches, was measured at maturity from the soil surface to the tip of the main stem. The reported values are means of all reps at all sites.

Lodging: Lodging scores reflect the erectness of the plants before harvest. The reported values are means of all reps at all sites. 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.

Protein and Oil Content: Protein and oil content of the seed was determined using near-infrared reflectance and is expressed on a 13% moisture basis. The analysis was done on seed from a single replicate from the Ingham and Saginaw locations for the central trial and the Ingham and Lenawee locations for the southern trial.

Phytophthora Resistance: Information on the presence of phytophthora resistance genes was provided by the organizations entering varieties. Varieties denoted with:

- 1a are resistant to phytophthora Races 1, 2, 10, 11, 13-20, 24, 26 & 27.
- 1b are resistant to Races 1, 3-9, 13, 15, 18, 21, & 22.
- 1c are resistant to Races 1-3, 6-11, 13-15, 17, 21, 23, 24 & 26.
- 1k are resistant to Races 1-11, 13-15, 17, 18, 20-24 & 26.
- 3 are resistant to Races 1-5, 8 and 9.
- 6 are resistant to Races 1-4, 10, 12, 14-16, 18-21 & 25.
- 7 are resistant to Races 12, 16, 18 & 19.

Soybean Cyst Nematode Resistance (SCN): Seed Companies that screen varieties for SCN resistance have indicated if the variety has known susceptibility or resistance

- R – Resistant
- MR – Moderately Resistant
- S – Susceptible
- MS – Moderately Susceptible

These notations followed by a number indicate the identified cyst nematode race

SELECTING A VARIETY

LSD (least significant difference, found at the bottom of each data column) values are useful when comparing two varieties in the same table. If the difference between two varieties is less than the LSD value, this difference is probably due to chance or minor environmental differences. However, if the difference between two varieties is greater than the LSD, there is a 95% or greater probability that the difference in performance is due to the greater yield potential of one variety. Valid comparisons can only be made between averages in the same column. The C.V. (coefficient of variation, found at the bottom of each data column) is indicative of the trial precision. Lower C.V. values indicate more precise trials.

The primary consideration in selecting a variety is yield. When evaluating a variety, consider yield performance over locations and across several years, if available. Considerations other than yield are also important in selecting a variety. It is especially important to select a variety that will mature before the first frost in the fall.

The degree of lodging varies among varieties. Lodging ratings should be used to evaluate potential harvest losses. Growers who have experienced lodging in the past and have had harvest problems may want to select a more lodging resistant variety. Alternatively, a variety susceptible to lodging may be planted at a slightly lower population to increase standability.

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

It often benefits 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 variety performance and allow for better selection.

SEED TREATMENT

Treated soybean seed submitted for Michigan State University's Soybean Performance Trials are noted by abbreviation in the 'TMT' column. Questions concerning treatments should be directed to the seed company. Contact information can be found in the 'Directory of Companies'.

Treatment Code:

- AM = Apron Maxx (Maxim)
- AM-C = Apron Maxx & Cruiser
- C = Cruiser
- EN = Encase
- SG = Soy Guard

SPECIALTY SOYBEAN VARIETIES

Sixteen special-use varieties were tested in this year's performance trials. This information will help soybean growers compare the potential profitability of special-use varieties to that of conventional varieties. ADM281, DF Seeds DF222, Dairyland DSR-218, Hyland's Belmont, Carter, Clancy, Claremont, Crown, Crystal, Sherwin, Sinclair, NK Brand S20-F8 and Vinton 81 are food-grade varieties. Zeeland Farm Services ZFS 211 LS and ZFS291 LS are low-saturated fat soybean varieties that have been grown under contract for oil production. Zeeland Farm Services ZFS 271 LL is a low-linolenic acid soybean. Be sure to contact your buyers to determine which special-use varieties they will accept before signing contracts or ordering seed.

Are you losing yield to diseases and insects?

Check out www.planthealth.info for all your soybean related disease and insect challenges.

- Look at yield-lowering diseases and pests
- Receive current, science-based, management options
- www.planthealth.info is linked to all university Web sites across the Midwest, including M.S.U., centralizing all known information about a disease.

TABLE 1. 2005 MICHIGAN CENTRAL CONVENTIONAL SOYBEAN VARIETY TRIAL REPORT
YIELD (BU/AC)

												2005			2005 AVERAGE		
												2005			2005 AVERAGE		
BRAND	VARIETY	MAT GROUP	TMT*	PHYTO RES	SCN	2005 AVG	04-05 AVG	03-05 AVG	ALLEGAN	SAGINAW	SANILAC	MAT	HEIGHT	LODGING	PROTEIN	OIL	
Asgrow	A2442	2.4	AM-C	1c	MR*	53.4			62.6	48.6	49.0	12-Sep	33	1.1	36.8	18.1	
Asgrow	A2869	2.8	AM-C	S	R3,MR14	47.9			56.9	43.1	47.8	15-Sep	38	1.6	37.1	17.3	
Bayside	Bayside 200	2.0				47.2	51.2	48.0	60.2	41.3	40.1	9-Sep	29	1.1	38.6	17.2	
D.F. Seeds	DF 222Fd Grd	2.2	AM-C			51.2	52.9	49.5	62.2	44.1	50.0	12-Sep	32	1.0	37.4	18.3	
D.F. Seeds	DF 255	2.5	AM-C			52.0			55.5	44.7	57.6	12-Sep	30	1.2	36.1	19.0	
Dairyland	DSR - 218	2.1	AM-C		S	52.3	52.7	49.6	61.9	45.2	50.0	11-Sep	33	1.0	37.2	18.2	
Hyland	Belmont	1.8	C		S	53.7			61.6	52.0	46.7	10-Sep	30	1.0	35.8	18.6	
Hyland	Carter	2.1	C		S	50.7			62.9	44.9	44.2	11-Sep	28	1.1	36.4	18.8	
Hyland	Crown	1.9	C		S	45.5	47.0		55.7	42.0	40.0	9-Sep	29	1.1	36.7	17.8	
Hyland	Crystal	1.8	C		S	49.1	48.6		55.5	44.9	47.2	6-Sep	27	1.1	37.2	18.3	
Hyland	Sherwin	1.9	C		R	57.4			66.2	57.3	45.2	10-Sep	29	1.2	36.8	17.8	
Hyland	Sinclair	2.1	C		R	51.5			55.5	49.3	49.7	11-Sep	34	1.3	38.5	17.3	
Hyland	Claremont	2.1	C		S	52.5			56.7	41.5	59.6	10-Sep	29	1.2	38.3	16.7	
Hyland	Clancy	2.1	C		S	47.2			57.9	41.2	42.9	11-Sep	28	1.3	36.5	18.4	
MSU	E00003**	2.8				51.1			53.9	39.4	64.6	13-Sep	37	1.8	36.2	18.3	
MSU	E01205**	2.5				48.4	48.6		58.7	42.6	46.0	12-Sep	28	1.1	36.6	17.9	
MSU	E01260**	2.5				45.7	50.4		59.3	40.3	37.6	13-Sep	32	1.3	37.6	17.8	
MSU	E98076**	2.6				46.1	48.5	47.8	50.9	45.2	45.1	13-Sep	34	1.1	34.5	18.2	
MSU	E99034**	2.5				47.5	49.1		55.8	38.8	48.1	13-Sep	30	1.1	36.4	18.2	
NK Brand	S20-F8	2.0	AM-C	1c		53.9	51.9	48.2	61.5	44.3	59.6	10-Sep	30	1.3	36.0	18.1	
Pioneer	92M10	2.1		1k	S	47.0			55.4	38.4	48.9	12-Sep	32	1.0	37.6	17.2	
Pioneer	92M72	2.7		1k	S	50.0			62.0	38.3	50.6	17-Sep	31	1.0	37.6	18.1	
Public	Titan	1.9	AM			44.5	47.3	45.4	56.1	41.1	35.5	9-Sep	28	1.0	36.7	17.7	
Public	Vinton 81	2.1	AM			37.7	40.1	36.8	45.3	28.9	40.3	10-Sep	36	1.6	39.8	16.4	
Zeeland	ZFS Sel. 211 LS	2.1				40.5	52.4	43.1	56.9	41.5	23.0	9-Sep	28	1.0	37.5	17.6	
Zeeland	ZFS Sel. 271 LL	2.7				47.5	48.2	45.1	53.4	39.9	50.6	12-Sep	33	1.4	37.9	18.5	
Zeeland	ZFS Sel. 291 LS	2.9				46.1	48.0	47.2	54.2	36.2	50.6	16-Sep	33	1.0	36.3	17.9	
GRAND MEAN						48.8			57.6	42.8	47.0	11-Sep	31	1.2			
Max. Mean						57.4			66.2	57.3	64.6	16-Sep	38	1.8			
Min. Mean						37.7			45.3	28.9	23.0	6-Sep	27	1.0			
LSD						3.5			6.8	3.8	8.2						
CV						10.6			10.0	7.6	12.7						

*Seed Treatment: See 'Seed Treatment' paragraph (under 'Using the Data') for product code

**Michigan State University experimental variety

TABLE 3. 2005 MICHIGAN CENTRAL ROUND-UP READY / Early Maturity, Groups 1.4 - 2.1, SOYBEAN VARIETY TRIAL REPORT

YIELD (BU/AC)											2005 AVERAGE				
BRAND	VARIETY	MAT GROUP	PHYTO	SCN	2005 AVG	04-05		03-05		MAT	HEIGHT	LODGING	PROTEIN	OIL	
						AVG	AVG	AVG	AVG						
Asgrow	AG1502(RR)	1.5	AM-C	S	41.6	44.3	44.6	36.1	7-Sep	25	1.0	37.4	18.1		
Asgrow	AG1702(RR)	1.7	AM-C	S	52.1	53.1	47.0	56.4	9-Sep	31	1.0	36.8	17.6		
Asgrow	AG1903(RR)	1.9	AM-C	S	54.0	53.4	46.3	62.5	10-Sep	31	1.0	35.9	18.1		
Asgrow	AG2106(RR)	2.1	AM-C	S	51.4	54.2	50.4	60.7	10-Sep	29	1.0	36.6	17.4		
Asgrow	AG2107(RR)	2.1	AM-C	1k,7	54.7	56.6	43.7	59.4	10-Sep	32	1.0	36.8	18.8		
Bayside/NorthGro	NB192RR	1.9			47.4	51.3	49.6	45.5	9-Sep	26	1.0	35.7	18.7		
Bayside/NorthGro	NB202NRR	2.0	1c	R	47.8	51.6	43.8	49.2	9-Sep	31	1.1	38.5	18.0		
Bayside/NorthGro	NB215RR	2.1	1k		48.8	52.1	49.4	44.9	10-Sep	27	1.0	36.4	17.7		
Bio Gene	BG 1506RN	1.5			51.0	51.8	52.1	49.1	8-Sep	29	1.1	37.1	17.9		
Croplan	RC 2020(RR)	2.0	AM-C	1k	52.0	55.1	45.5	55.5	11-Sep	31	1.0	36.4	18.7		
Croplan	RT 2092(RR)	2.0	AM-C		52.1	55.8	45.4	55.3	12-Sep	29	1.0	35.7	18.0		
D.F. Seeds	DF 8192RR	1.9	AM-C	1k	53.1	56.4	52.0	43.9	66.3	31	1.0	37.1	17.9		
D.F. Seeds	DF 8205NRR	2.0	AM-C	R	56.3	47.4	55.5	66.1	12-Sep	32	1.0	36.2	17.9		
D.F. Seeds	DF 8212NRR	2.1			45.6	46.7	43.3	46.7	12-Sep	32	1.0	36.4	18.3		
Dairyland	DSR-1900(RR)	1.9	AM-C	1k	46.5	46.4	42.0	51.0	12-Sep	30	1.0	37.1	17.3		
Dairyland	DSR-199(RR)STS	1.9	AM-C	1k	53.5	56.0	51.4	49.3	47.1	32	1.0	37.2	17.7		
Dairyland	DSR-221(RR)	2.1	AM-C	1k	50.5	53.7	50.1	49.9	58.5	31	1.0	36.8	17.9		
Dekalb	DKB18-51(RR)	1.8	AM-C	1k	48.9	50.4	43.3	53.2	9-Sep	28	1.0	36.3	17.6		
Dyna-Gro	DG-3190RR	1.9	AM-C	1k	50.6	44.1	57.4	57.4	12-Sep	30	1.0	35.6	18.1		
Dyna-Gro	DX-3200RR	2.0	AM-C		50.7	52.5	52.2	53.6	11-Sep	27	1.0	35.6	18.1		
Dyna-Gro	33X19(RR)	1.9	AM-C	1k	55.6	51.4	52.8	62.6	10-Sep	32	1.1	36.4	18.8		
Garst	1827RR	1.8			50.8	42.4	55.0	55.0	9-Sep	31	1.0	37.5	17.7		
Garst	2018RR	2.0	1k		47.6	51.5	48.1	49.2	11-Sep	30	1.0	37.0	18.0		
Golden Harvest	H-1961RR	1.9	1k	S	44.7	49.1	35.5	48.7	12-Sep	29	1.0	36.5	17.9		
Golden Harvest	H-2124RR	2.1			49.7	52.1	42.1	55.0	11-Sep	32	1.0	37.2	17.5		
Great Lakes	GL1701RR	1.7	AM-C	1k	51.2	54.2	41.2	58.3	9-Sep	28	1.0	35.8	17.7		
Great Lakes	GL1903RR	1.9	AM-C	1k	50.8	53.9	50.4	50.7	12-Sep	32	1.0	36.6	18.2		
Great Lakes	GL2009RR	2.0	AM-C	1k	54.8	55.0	49.9	53.0	10-Sep	30	1.0	36.2	18.8		
Helena	2074(RR)	2.0	AM	1k	51.0	53.1	48.9	56.6	10-Sep	29	1.0	36.7	18.6		
Helena	2133(RR)	2.1	AM	1k	49.2	53.7	47.6	55.1	10-Sep	27	1.0	35.4	18.3		
High Cycle by Trellay	2163RR	1.6	SG	1k	46.1	38.9	48.8	48.8	9-Sep	29	1.0	36.9	17.3		
High Cycle by Trellay	2175RR	1.7	SG	S	45.0	50.6	42.9	41.4	8-Sep	28	1.0	37.2	17.9		
Hyland	RR Respond	1.8	C	R	51.4	53.6	48.8	53.0	9-Sep	32	1.0	37.6	18.2		
Hyland	RR Rodney	2.1	C	S	56.9	57.0	55.8	67.4	11-Sep	33	1.0	36.9	18.0		
NK Brand	S14-K6(RR)	1.4	AM-C	1c	48.4	44.9	47.3	53.0	7-Sep	28	1.0	36.6	17.3		
NK Brand	S17-P9	1.7	AM-C	1c	55.3	52.9	54.1	60.6	8-Sep	32	1.0	34.6	18.1		
NK Brand	S19-R5	1.9	AM-C	1a	51.2	52.9	47.6	52.5	8-Sep	30	1.0	36.2	17.8		
Pioneer	92M00(RR)	2.0	1k	S	47.0	50.4	47.0	49.7	9-Sep	31	1.0	36.3	18.1		
Renk	RS165RR	1.6	AM-C	1k	50.7	51.0	46.6	54.5	8-Sep	25	1.0	36.5	17.8		
Renk	RS185RR	1.8	AM-C		51.8	54.2	46.4	54.9	10-Sep	27	1.0	36.0	18.1		
Renk	RS204NRR	2.0	AM-C	1k	54.3	56.3	52.1	55.7	10-Sep	30	1.0	36.2	18.6		
Rupp	RS 4204RR	2.0	AM-C	1k	48.7	52.6	54.9	50.2	10-Sep	28	1.0	35.6	17.8		
Vigoro	V196RRS	1.9	AM	1k	49.1	53.3	41.0	53.2	10-Sep	31	1.0	36.9	18.1		
Vigoro	V213RR	2.1	AM	1k	49.2	53.8	50.1	52.0	12-Sep	31	1.0	37.3	17.7		
Vigoro	V21N6RR	2.1	AM	MR3	45.0	51.7	41.3	42.0	12-Sep	32	1.0	37.4	17.8		
GRAND MEAN					50.3	51.7	45.5	53.6	9-Sep	30	1.0				
Max. Mean					56.9	56.6	54.1	67.4	12-Sep	33	1.1				
Min. Mean					41.6	44.3	35.5	36.1	7-Sep	25	1.0				
LSD					3.0	5.0	4.1	6.3							
CV					8.9	8.3	7.7	10.0							

*Seed Treatment: See 'Seed Treatment' paragraph (under 'Using the Data') for product code

TABLE 4. 2005 MICHIGAN CENTRAL ZONE ROUND-UP READY / Late Maturity, Groups 2.2 - 3.3, SOYBEAN VARIETY TRIAL REPORT
YIELD (BU/AC)

2005														2005 AVERAGE			
BRAND	VARIETY	MAT GROUP	TMT*	PHYTO RES	SCN	2005 04-05 03-05			ALLEGAN	SAGINAW	SANILAC	MAT	HEIGHT	LODGING	PROTEIN	OIL	
						AVG	AVG	AVG									
Asgrow	AG2203(RR)	2.2	AM-C	1k	R3	53.4	58.0	49.3	52.9	11-Sep	33	1.1	36.8	17.9			
Asgrow	AG2205(RR)	2.2	AM-C	1k	S	59.7	70.4	44.3	64.4	12-Sep	34	1.1	37.7	16.7			
Asgrow	AG2403(RR)	2.4	AM-C	1k	S	54.8	63.1	40.7	60.5	13-Sep	29	1.0	36.5	18.5			
Bayside/NorthGro	NB260RR	2.6	AM-C	1k		50.2	60.8	39.1	50.6	13-Sep	34	1.3	37.6	17.4			
Croplan	RT 2292(RR)	2.3	AM-C	1k		51.6	60.5	46.8	47.6	12-Sep	28	1.0	36.2	17.7			
Croplan	RT 2544(RR)	2.5	AM-C	1k		51.7	67.8	33.6	53.9	15-Sep	31	1.3	37.1	17.2			
Croplan	RT 2678(RR)	2.6	AM-C	1k		55.5	65.3	40.0	61.1	19-Sep	33	1.0	37.6	17.5			
D.F. Seeds	DF 8242NRR	2.4	AM-C	1k	MR	53.2	59.4	40.5	59.6	12-Sep	29	1.0	37.7	17.3			
D.F. Seeds	DF 8251RR	2.5	AM-C	1k		54.4	63.1	41.3	58.8	13-Sep	35	1.4	36.6	17.7			
D.F. Seeds	DF 8263R	2.6	AM-C	1k		55.7	61.4	41.2	64.5	16-Sep	36	1.3	38.6	17.2			
Dairyland	DSR - 234(RR)	2.3	AM-C	1k	S	53.0	68.5	42.6	48.0	13-Sep	29	1.0	36.9	17.8			
Dekalb	DKB22-52(RR)	2.2	AM-C	S	S	52.7	69.8	45.4	42.8	12-Sep	29	1.0	35.9	18.1			
Dekalb	DKB26-53(RR)	2.6	AM-C	1c	S	58.3	67.6	40.7	66.8	17-Sep	37	1.3	37.5	17.6			
Dekalb	DKB28-52(RR)	2.8	AM-C	1c	S	52.4	56.3	38.2	62.8	17-Sep	36	1.3	36.7	17.6			
Dyna-Gro	39P22(RR)	2.2	AM-C	1k		53.8	66.1	45.8	49.5	12-Sep	28	1.0	36.4	17.7			
Dyna-Gro	35C23(RR)	2.3	AM-C	1k		53.4	64.3	39.7	56.2	11-Sep	32	1.3	37.7	17.0			
Dyna-Gro	37T26(RR)	2.6	AM-C	1c		61.6	78.7	42.2	64.1	16-Sep	37	1.3	38.1	17.6			
Dyna-Gro	36D24(RR)	2.4	AM-C		R	61.2	73.8	50.5	59.5	13-Sep	35	1.0	37.0	17.9			
Garst	2332RR	2.3				52.9	65.4	39.5	53.8	13-Sep	33	1.0	37.5	17.6			
Garst	2560RR	2.5				51.4	61.0	38.8	54.3	15-Sep	33	1.2	38.6	17.4			
Garst	2603RR	2.6	AM-C	1k		45.8	56.0	31.9	49.6	15-Sep	33	1.2	37.9	17.6			
Garst	2834RR	2.8	AM-C	1k		51.8	67.7	31.7	56.1	19-Sep	33	1.0	37.7	17.9			
Garst	XR25Y17(RR)	2.5				45.2	56.1	31.8	47.6	15-Sep	30	1.1	36.5	17.2			
Great Lakes	GL2201RR	2.2	AM-C	1k		51.7	67.6	45.3	42.1	11-Sep	28	1.0	36.3	17.9			
Great Lakes	GL2302RR	2.3	AM-C	1k		53.3	68.0	40.6	51.4	13-Sep	29	1.0	37.9	17.4			
Great Lakes	GL2423RR	2.4	AM-C	1k	R	57.8	62.8	48.3	62.2	13-Sep	33	1.1	37.4	17.9			
Great Lakes	GL2504RR	2.5	AM-C	1k		55.8	64.6	39.3	63.4	14-Sep	33	1.2	37.1	17.6			
Great Lakes	GL2550RR	2.5	AM-C			51.8	62.5	33.6	59.4	15-Sep	32	1.1	38.0	17.6			
High Cycle by Trellay	2222RR	2.2	SG	1k	S	49.2	64.9	44.2	38.6	11-Sep	27	1.0	35.5	18.4			
High Cycle by Trellay	2223RR	2.2	SG	1k	S	52.0	66.8	44.1	45.0	12-Sep	27	1.0	35.5	18.4			
High Cycle by Trellay	2224RR	2.2	SG	1k	MR	49.8	64.8	35.1	49.4	13-Sep	30	1.0	37.5	17.4			
High Cycle by Trellay	2245RR	2.4	SG		R	53.2	66.6	44.6	48.4	13-Sep	34	1.0	37.0	17.7			
Hyland	RR Renwick	2.2	C		S	55.1	68.6	38.5	58.3	14-Sep	35	1.3	36.5	17.9			
Latham	497RR Brand	2.2		1k		52.7	69.0	38.2	51.1	13-Sep	27	1.0	36.1	18.0			
Latham	L2336R Brand	2.3				50.0	66.3	37.6	46.1	13-Sep	29	1.0	37.5	17.5			
Legacy	23B18RR	2.3	AM-C	1k		51.9	60.6	43.0	52.3	13-Sep	30	1.0	37.4	17.3			
Legacy	26M81RR	2.6	AM-C	1c		58.8	74.3	40.5	61.7	16-Sep	36	1.3	38.1	17.3			
Legacy	26R11(RR)	2.6	AM-C			57.0	70.1	40.9	59.9	15-Sep	36	1.3	36.8	18.1			
Legacy	27R70RR	2.7	AM-C	1k		53.2	60.6	36.6	62.5	19-Sep	34	1.0	37.0	17.7			
NK Brand	S22-A2(RR)	2.2	AM-C	1k,1c		57.3	65.3	46.2	60.3	10-Sep	31	1.1	36.7	18.3			
NK Brand	S23-Z3(RR)	2.3	AM-C	1a		54.2	67.5	44.1	51.0	11-Sep	33	1.3	36.6	17.7			
NK Brand	S25-B9(RR)	2.5	AM-C	1a		52.9	68.2	41.1	49.6	14-Sep	30	1.0	37.2	17.6			
Pioneer	92B38(RR)	2.3			S	49.3	60.6	41.7	45.6	12-Sep	33	1.0	38.2	17.2			
Pioneer	92M61(RR)	2.6			MR	47.7	60.2	41.5	41.3	14-Sep	33	1.3	37.0	17.6			
Pioneer	92M70(RR)	2.7			MR	55.1	69.4	43.8	52.0	16-Sep	34	1.6	37.1	17.8			

TABLE 4. 2005 MICHIGAN CENTRAL ZONE ROUND-UP READY / Late Maturity, Groups 2.2 - 3.3, SOYBEAN VARIETY TRIAL REPORT
YIELD (BU/AC)

BRAND	VARIETY	MAT GROUP	TMT*	PHYTO RES	SCN	2005 04-05 03-05			2005 AVERAGE						
						AVG	AVG	AVG	YIELD (BU/AC)	ALLEGAN	SAGINAW	SANILAC	MAT	HEIGHT	LODGING
Pioneer	92M91(RR)	2.9		1k	S	53.2	54.4	68.2	39.3	52.0	17-Sep	35	1.2	36.1	18.7
Pioneer	93M11(RR)	3.1		1k	S	51.6	51.6	67.3	36.6	50.9	19-Sep	32	1.0	37.3	18.1
Renk	RS223RR	2.2	AM-C	1k		56.5	55.4	66.0	48.2	55.2	11-Sep	28	1.0	35.6	18.1
Renk	RS253RR	2.5	AM-C			53.1		65.2	35.3	58.9	15-Sep	32	1.0	38.3	17.8
Rupp	4XP53(RR)	2.7	AM-C	1k	S	54.8		63.6	40.3	60.6	18-Sep	33	1.1	36.8	17.8
Rupp	4XP61(RR)	2.6	AM-C	1k	S	56.5		66.6	37.6	65.3	16-Sep	32	1.0	35.9	17.5
Rupp	RS 4232NRR	2.3	AM-C		MR	54.5	54.4	66.1	44.0	53.5	13-Sep	32	1.2	37.5	17.6
Vigoro	V225RR	2.2	AM	1k	S	50.0	51.8	66.7	43.1	40.4	10-Sep	28	1.0	36.1	17.9
Vigoro	V234RR	2.3	AM	1k	S	52.7	54.4	68.0	40.8	49.4	13-Sep	30	1.0	38.0	17.3
Vigoro	V265RR	2.6	AM	1c	S	53.1	54.5	70.5	36.6	52.2	15-Sep	34	1.0	38.9	17.2
GRAND MEAN						53.4		65.4	40.8	54.1	13-Sep	32	1.1		
Max. Mean						61.6		78.7	50.5	66.8	19-Sep	37	1.6		
Min. Mean						45.2		56.0	31.7	38.6	10-Sep	27	1.0		
LSD						4.3		8.3	4.5	8.8					
CV						11.9		10.9	9.4	13.9					

*Seed Treatment: See 'Seed Treatment' paragraph (under 'Using the Data') for product code

TABLE 5. 2005 MICHIGAN SOUTHERN ZONE ROUND-UP READY / Early Maturity, Groups 2.0 - 2.7, SOYBEAN VARIETY TRIAL REPORT
YIELD (BU/AC)

BRAND	VARIETY	MAT GROUP	PHYTO RES	2005 04-05 03-05			2005					2005 AVERAGE				
				TMT*	SCN	AVG	AVG	AVG	LENAAWEE	HILLSDALE	ST. JOSEPH	MAT	HEIGHT	LODGING	PROTEIN	OIL
Asgrow	AG2203(RR)	2.2	AM-C	1k	R3	60.7	67.3	59.1	55.6	7-Sep	40	2.3	36.6	18.1		
Asgrow	AG2205(RR)	2.2	AM-C	1k	S	66.4	73.4	65.7	60.3	9-Sep	39	2.4	37.7	17.2		
Asgrow	AG2403(RR)	2.4	AM-C	1k	S	66.6	70.4	66.2	63.3	9-Sep	33	1.1	35.8	18.7		
Asgrow	AG2703(RR)	2.7	AM-C	1k	S	64.2	73.3	62.9	56.5	10-Sep	41	1.8	35.5	18.5		
Asgrow	AG2705(RR)	2.7	AM-C	1c	MR3,14	60.7	72.3	55.8	54.1	15-Sep	44	2.7	37.7	17.8		
BaySide	NB260RR	2.6	AM-C	1k		66.6	68.8	64.6	66.5	11-Sep	41	2.6	36.7	17.9		
Crow's	C2618R	2.6	AM-C	1k		63.4	77.8	55.0	57.3	12-Sep	40	2.1	38.1	18.0		
D.F. Seeds	DF 8242NRR	2.4	AM-C	1k	MR	71.7	80.3	65.8	69.1	10-Sep	35	1.8	37.3	18.1		
D.F. Seeds	DF 8251RR	2.5	AM-C	1k		67.4	71.0	68.6	62.6	11-Sep	41	2.8	37.2	17.8		
D.F. Seeds	DF 8263R	2.6	AM-C	1c		71.0	82.8	66.9	63.3	13-Sep	43	2.4	37.8	17.7		
D.F. Seeds	DF 8264XR	2.6	AM-C	1c		69.4	80.9	62.9	64.5	14-Sep	38	1.9	35.8	18.0		
D.F. Seeds	DF 8274RR	2.7	AM-C	1k		71.7	78.3	67.0	69.8	14-Sep	39	1.1	37.7	18.1		
Dairyland	DSR - 234/RR	2.3	AM-C	1k	S	71.7	81.8	65.9	67.4	10-Sep	35	1.4	37.0	17.9		
Dairyland	DSR - 2500/RR	2.5	AM-C	1k	S	66.9	75.4	63.3	62.1	12-Sep	39	2.0	35.6	18.7		
Dairyland	DSR - 2600/RR	2.6	AM-C	1c	S	66.9	79.2	63.9	57.8	12-Sep	38	1.8	35.8	18.1		
Dekalb	DKB26-53(RR)	2.6	AM-C	1c	S	68.9	81.5	65.9	59.5	13-Sep	43	2.3	38.3	17.7		
Dyna-Gro	39P22(RR)	2.2	AM-C	1k		69.9	72.6	65.2	71.9	10-Sep	34	1.3	36.7	17.9		
Dyna-Gro	DG-3200RR	2.0	AM-C	1c		68.7	73.9	65.0	67.1	9-Sep	34	1.2	36.4	18.0		
Dyna-Gro	37T26(RR)	2.6	AM-C	1c		70.2	83.2	66.0	60.6	13-Sep	42	2.8	37.7	17.7		
Garst	2560RR	2.5	AM-C	1c		67.5	77.5	64.3	60.5	13-Sep	41	2.5	37.6	18.0		
Great Lakes	GL2705RR	2.7	AM-C	1k		68.6	70.6	64.4	70.7	9-Sep	34	1.4	36.0	18.3		
Great Lakes	GL2719RR	2.7	AM-C	1c	R	67.7	76.2	63.5	63.5	14-Sep	42	2.3	36.9	17.5		
High Cycle by Trellay	2263RR	2.6	SG	1c	S	68.8	78.1	68.7	59.8	12-Sep	41	2.3	38.0	18.0		
High Cycle by Trellay	2274RR	2.7	SG	1c	S	66.0	72.3	65.6	60.1	13-Sep	36	2.1	35.4	18.0		
Latham	E2635R	2.6	AM-C	1c		67.6	78.0	65.6	59.3	13-Sep	41	2.5	38.7	17.6		
Latham	E2646R	2.6	AM-C	1k		67.4	73.9	61.4	67.0	13-Sep	37	1.8	35.6	18.2		
Legacy	26M81RR	2.7	AM-C	1c		67.5	81.6	61.7	59.1	13-Sep	43	2.2	37.6	18.1		
Legacy	27R70RR	2.6	AM-C	1k		70.6	79.1	65.9	66.8	16-Sep	41	1.4	36.4	18.4		
Midwest	GR2651(RR)	2.6	AM-C	1c		64.5	73.9	58.7	60.9	13-Sep	41	2.3	37.1	18.5		
NK Brand	S25-B9(RR)	2.5	AM-C	1a		67.7	75.8	66.0	61.5	11-Sep	35	1.3	36.1	18.3		
Pioneer	92M61(RR)	2.6	AM-C	1c	MR	68.7	76.6	66.8	62.7	12-Sep	39	2.7	35.6	18.9		
Pioneer	92M70(RR)	2.7	AM-C	1c	MR	67.1	76.5	64.5	60.3	13-Sep	40	3.4	35.7	18.7		
Renk	RS265RR	2.6	AM-C	1c		71.9	83.7	68.5	63.5	14-Sep	43	2.4	38.2	18.0		
Rupp	4XP53(RR)	2.7	AM-C	1k	S	68.4	79.8	65.0	60.6	15-Sep	40	1.6	37.2	17.8		
Rupp	4XP61(RR)	2.6	AM-C	1k	S	69.3	78.7	67.1	62.1	14-Sep	39	2.3	35.3	18.3		
Rupp	RS 4232NRR	2.3	AM-C	1c	MR	70.3	81.0	61.8	68.1	11-Sep	40	1.9	37.0	18.0		
Steyer	2620RR	2.6	AM-C	1c		69.0	78.4	65.1	63.4	13-Sep	42	2.3	37.9	17.8		
Vigoro	V234RR	2.3	AM	1k	S	70.5	77.9	70.4	63.3	10-Sep	35	1.5	37.5	17.7		
Vigoro	V265RR	2.6	AM	1c	S	66.6	78.9	61.2	59.6	13-Sep	42	2.7	38.2	17.8		
Wellman	W 3526RR	2.6	EN	1c		68.4	81.9	65.6	57.6	13-Sep	41	2.3	38.2	18.0		
GRAND MEAN						67.9	76.9	64.4	62.5	12-Sep	39	2.1				
Max. Mean						71.9	83.7	70.4	71.9	16-Sep	44	3.4				
Min. Mean						60.7	67.3	55.0	54.0	7-Sep	33	1.1				
LSD						2.5	3.7	4.3	5.1							
CV						5.5	4.2	5.7	6.9							

*Seed Treatment: See 'Seed Treatment' paragraph (under 'Using the Data') for product code

TABLE 6. 2005 MICHIGAN SOUTHERN ZONE ROUND-UP READY / Late Maturity, Groups 2.8 - 3.3, SOYBEAN VARIETY TRIAL REPORT

										2005				2005 AVERAGE			
										YIELD (BU/AC)							
BRAND	VARIETY	MAT GROUP	TMT*	PHYTO RES	SCN	2005 04-05 03-05				ST-JOSEPH	MAT	HEIGHT	LODGING	PROTEIN	OIL		
						AVG	AVG	AVG	AVG							LENAAWEE	INGHAM
Asgrow	AG2801(RR)	2.8	1a	R3*,MR14*	AM-C	65.4	61.5	56.0	73.7	67.4	55.1	16-Sep	42	2.3	38.9	17.5	
Asgrow	AG3006(RR)	3.0	1k,7	MR3*	AM-C	71.3			82.0	68.3	63.8	17-Sep	46	2.3	36.7	18.0	
Asgrow	AG3101(RR)	3.1	1c	MR4	AM-C	70.8	67.0		80.9	67.5	64.0	19-Sep	46	2.3	39.7	16.9	
Asgrow	AG3203(RR)	3.2	1c	MR	AM-C	67.8			79.1	62.3	62.2	21-Sep	41	2.3	38.6	17.4	
Asgrow	AG3305(RR)	3.3	1c	R3*	AM-C	65.5	59.7		77.2	57.6	61.6	22-Sep	43	3.2	36.7	17.7	
Beck	297NRR	2.9	1c	R3,MR14	AM	65.6			74.5	63.3	59.2	19-Sep	43	3.3	38.6	17.9	
Beck	321NRR	3.2	1k	R3,MR15	AM	71.3			82.5	65.5	66.1	21-Sep	40	2.3	38.6	17.5	
Crow's	C3142R	3.1	1c		AM	67.3			72.8	69.0	60.2	17-Sep	46	2.8	37.4	17.8	
D.F. Seeds	DF 8311RR	3.1			AM-C	73.1	70.4	65.2	79.7	73.1	66.6	18-Sep	46	2.9	37.7	17.7	
Dairyland	DSR - 2800/RRSTS	2.8	1c	S	AM-C	71.5			75.3	71.3	68.1	15-Sep	44	2.1	37.1	17.8	
Dairyland	DSR - 3000/RRSTS	3.0	1k	S	AM-C	66.6	65.7		72.2	68.1	59.7	17-Sep	43	2.7	38.1	18.1	
Dekalb	DKB28-52(RR)	2.8	1c	S	AM-C	65.7	66.9	61.4	75.5	64.5	57.2	15-Sep	42	2.4	36.9	17.7	
Dekalb	DKB29-51(RR)	2.9	S	R3*	AM-C	70.9			77.3	64.9	70.7	17-Sep	42	2.4	36.7	18.4	
Dekalb	DKB31-51(RR)	3.1	1k	S	AM-C	67.4	64.7	60.8	77.3	65.3	59.6	22-Sep	43	2.8	38.3	18.5	
Dyna-Gro	31T31(RR)	3.1	1c	R3	AM-C	65.6	64.8		77.6	61.1	58.3	20-Sep	43	2.8	38.0	18.4	
Dyna-Gro	37B28(RR)	2.8			AM-C	68.0			76.1	68.8	59.0	15-Sep	42	2.3	36.5	17.7	
Dyna-Gro	37K32(RR)	3.2	1c		AM-C	69.9			78.5	73.1	58.3	18-Sep	45	2.6	37.7	17.7	
Dyna-Gro	38K28(RR)	2.8			AM-C	67.3			71.9	69.4	60.5	16-Sep	43	3.3	36.5	18.3	
Garst	2834RR	2.8	1k		AM-C	70.3	67.8	61.8	67.8	71.6	71.6	16-Sep	40	1.5	37.4	18.4	
Garst	3065RR/STS	3.0			AM-C	65.1			70.5	63.2	61.7	17-Sep	43	2.3	37.9	18.1	
Gutwein	EX 53104RR	3.1	1c	S	AM-C	64.3			71.6	61.5	59.8	20-Sep	40	1.7	38.2	17.7	
Great Lakes	GL2909RR	2.9		R	AM-C	67.8			75.4	62.8	65.1	17-Sep	42	2.7	37.5	18.1	
Great Lakes	GL3119RR	3.1	1c	R	AM-C	68.0	66.9		76.8	64.3	62.9	20-Sep	43	2.6	38.7	18.0	
Gries	GSF 337RR	3.3			AM-C	68.9			77.8	67.0	62.0	18-Sep	42	3.3	37.4	18.1	
High Cycle by Treley	2292RR	2.9	1c	S	SG	62.0	62.7		72.6	60.6	52.8	17-Sep	44	2.6	38.1	18.1	
High Cycle by Treley	2293RR	2.9		R	SG	66.3			73.8	60.1	65.1	17-Sep	40	2.5	37.4	18.1	
Latham	E3157R	3.1	1c			68.5			73.6	66.8	65.3	17-Sep	45	2.5	37.6	17.7	
Latham	L2900R Brand	2.9				65.4			67.0	63.8	65.4	14-Sep	36	1.7	37.7	18.1	
Legacy	30B30NRR	3.0		R3,14	AM-C	70.2			78.7	67.2	67.2	17-Sep	42	2.8	37.3	18.6	
Midwest	GR3102(RR)	3.1	1c		AM-C	70.0			75.3	72.9	61.7	17-Sep	46	2.9	37.9	17.7	
NK Brand	S28-G1(RR)	2.8	1a		AM-C	68.5			74.9	68.5	62.1	14-Sep	39	1.9	36.7	18.4	
NK Brand	S30-D4(RR)	3.0	1a		AM-C	68.7			71.3	69.2	65.8	17-Sep	44	2.5	36.9	18.2	
NK Brand	S32-G5(RR)	3.2	1c		AM-C	66.2	61.5	56.7	72.3	68.8	57.6	21-Sep	45	2.9	37.3	17.8	
Pioneer	92M91(RR)	2.9	1k	S		67.5	67.9		71.3	66.1	65.2	14-Sep	41	2.0	36.6	18.9	
Pioneer	93B36(RR)	3.3	1k	MS		67.2	65.9	62.6	66.5	66.8	68.2	17-Sep	42	2.0	37.3	18.5	
Pioneer	93M11(RR)	3.1	1k	S		71.2	68.1		69.7	68.8	75.2	15-Sep	39	1.7	37.1	18.7	
Renk	RS295NRR	2.9		R	AM-C	70.3			76.0	68.3	66.6	17-Sep	43	2.5	37.3	18.4	
Rupp	RS 4295RR	2.9	1c	S	AM-C	67.7	66.8		75.7	65.4	62.1	17-Sep	45	2.6	37.6	18.1	
Rupp	RS 4314RR	3.1	1c	S	AM-C	67.4	66.9		73.5	68.3	60.3	17-Sep	46	2.8	37.9	17.8	
Steyer	3030RR	3.0				67.4			72.2	61.3	68.8	18-Sep	42	2.7	36.9	18.4	
Vigoro	EX220203(RR)	2.9	1c	R3,MR14	AM	66.2			71.8	63.0	63.7	19-Sep	43	3.1	38.1	18.0	
Vigoro	EX730006(RR)	3.0	1c	S	AM	65.7			74.0	65.4	57.8	22-Sep	44	2.8	38.5	17.1	
Vigoro	EX821065(RR)	2.9		R3,MR15	AM	66.8			71.2	65.9	63.4	17-Sep	41	2.5	37.6	18.0	
Vigoro	V275RR	2.8	1c	S	AM	63.1			73.2	62.5	53.7	20-Sep	44	2.6	38.5	17.1	
Vigoro	V315RR	3.1	1c	S	AM	69.5	68.7		74.9	65.4	68.2	17-Sep	46	2.7	37.8	17.7	
Wellman	W 3431RR	3.1	1c	S	EN	71.3	68.9	64.2	75.9	75.4	62.5	17-Sep	46	2.7	37.5	17.6	
GRAND MEAN						67.9			74.5	66.3	62.9	17-Sep	43	2.5			
Max. Mean						73.1			82.5	75.4	75.2	22-Sep	46	3.3			
Min. Mean						62.0			66.5	57.6	52.8	14-Sep	36	1.5			
LSD						3.1			3.9	6.0	6.2						
CV						6.9			4.5	7.7	8.4						

*Seed Treatment: See 'Seed Treatment' paragraph (under 'Using the Data') for product code

TABLE 7. 2005 MICHIGAN NORTH RR SOYBEAN VARIETY TRIAL REPORT/Maturity, Groups 0.3 - 1.6
YIELD (BU/AC)

BRAND	VARIETY	MAT. GROUP	TMT*	PHYTO RES	SCN	2005				2005 AVERAGE			
						05AVG	GRAND TRAVERSE	MONTEGENCY	MAT	HEIGHT	LODGING	PROTEIN	OIL
Asgrow	AG0801(RR)	0.8	AM-C	1k	S	31.9	25.8	38.0	8-Sep	23	1.0	35.0	18.4
Asgrow	AG0803(RR)	0.8	AM-C	1k	MR3*	30.8	22.2	39.4	7-Sep	23	1.0	33.9	19.2
Asgrow	AG1102(RR)	1.1	AM-C	1k	S	34.1	30.3	37.9	8-Sep	22	1.0	34.1	18.4
Asgrow	AG1401(RR)	1.4	AM-C	1k	S	41.2	36.3	46.1	10-Sep	25	1.0	34.4	18.6
Asgrow	AG1502(RR)	1.5	AM-C	S	S	31.6	21.9	41.3	9-Sep	22	1.0	35.2	18.7
Bayside	NB081RR	0.8		1k		31.5	28.3	34.6	8-Sep	23	1.0	34.5	19.0
Dairyland	DSR - 050/RR	0.5	AM-C			26.5	17.9	35.2	5-Sep	20	1.0	37.1	18.0
Dairyland	DSR - 0701/RR	0.7	AM-C			26.5	19.1	33.9	7-Sep	21	1.0	34.9	18.3
Dairyland	DSR - 1301/RR	1.3	AM-C			34.2	26.1	42.4	10-Sep	21	1.0	35.8	18.4
Dekalb	DKB07-52(RR)	0.7	AM-C	S	S	24.7	16.8	32.6	5-Sep	20	1.0	35.2	18.3
Garst	0999RR	0.9				33.9	34.5	33.3	9-Sep	22	1.0	34.2	18.3
Garst	1499RR	1.4				36.4	32.6	40.3	13-Sep	22	1.0	35.3	18.5
NK Brand	S12-B9(RR)	1.2	AM-C	S		27.6	17.0	38.3	7-Sep	20	1.0	36.4	18.1
NK Brand	S14-K6(RR)	1.4	AM-C	1c		30.6	23.8	37.3	9-Sep	22	1.0	35.0	18.2
Pioneer	90M60(RR)	0.6		1c	S	35.8	35.5	36.2	6-Sep	20	1.0	34.9	18.3
Pioneer	90M61(RR)	0.6			S	28.0	22.7	33.4	6-Sep	19	1.0	34.8	19.2
Pioneer	90M91(RR)	0.9		1k	S	34.0	31.8	36.2	9-Sep	23	1.0	37.4	17.7
Pioneer	91M60(RR)	1.6		1c	S	39.8	41.7	38.0	13-Sep	22	1.0	34.2	19.0
Wolf River	WRV 2503RR	0.3				29.0	25.3	32.8	5-Sep	21	1.0	35.6	18.4
Wolf River	WRV 2507RR	0.7				33.2	32.0	34.4	7-Sep	21	1.0	34.6	18.5
GRAND MEAN						32.1	27.1	37.1	8-Sep	22	1.0		
Max. Mean						41.2	41.7	46.1	13-Sep	25	1.0		
Min. Mean						24.7	16.8	32.6	5-Sep	19	1.0		
LSD						3.5	4.4	5.6					
CV						13.3	13.8	12.7					

*Seed Treatment: See 'Seed Treatment' paragraph (under 'Using the Data') for product code

2005 MICHIGAN WHITE MOLD SOYBEAN PERFORMANCE REPORT

D. WANG AND J. F. BOYSE, DEPARTMENT OF CROP AND SOIL SCIENCE

This report provides information on the performance of soybean varieties when challenged with white mold, which is also known as Sclerotinia stem rot.

TESTING PROCEDURES

The white mold test was grown at one location (Ingham) with four replications. The Ingham County site was inoculated with white mold sclerotia and irrigated to promote infection. The entries were tested in plots planted 20 feet long, 6-rows wide with a 15-inch row spacing. The planting rate was 210,000 seeds/acre. Varieties were replicated four times in a lattice design. The test included 85 commercial varieties entered by 16 seed companies and 2 public varieties entered by the Michigan Crop Improvement Association. Twelve experimental varieties were tested from the Michigan State University soybean variety development program. The plots were planted, harvested, and rated as described for the Conventional Variety Trial.

TEST SITE INFORMATION

Ingham County

Nearest City: East Lansing

Cooperators: Michigan State University

Planting date: 5-4-05

Harvest date: 10-15-05

Previous crop: Corn

Soil type: Capac Loam

Fertilizer: 150 lbs. 0-0-60

Herbicide: Preemerge - 1.5 #/A IOROX 50% DF,
1.33 pt/A. Dual II Magnum

GROWING CONDITIONS

The Ingham County field was irrigated daily during flowering. Temperatures were above normal for the growing season causing only slight disease pressure in our field. Cool temperatures coupled with excess rainfall promote maximum disease pressure.

USING THE DATA

Results are presented in Table 8. These evaluations were done to provide information on the relative susceptibility of varieties to white mold. Although no varieties have been identified that have complete resistance to the disease, there are varieties that have lower infection rates than others when the disease is present. The selection of

varieties that have low infection rates and high yields can help growers profitably in fields where white mold infections occur.

The following traits were rated using the procedures outlined in the Michigan Central and Southern Conventional Soybean Variety Trial Report: yield, maturity date, height, and lodging. White mold levels were determined by rating 30 random plants in the center rows of each plot. Each plant was rated on a scale of 0 to 3 with 0 = no infection, 1 = infection only on branches, 2 = infection on the main stem but pod fill was normal, and 3 = infection on the main stem resulted in plant death and poor pod fill. The scores of the 30 plants rated for each plot were totaled. The total was divided by 90 (the total if all 30 scored plants were given a rating of 3) and multiplied by 100 to give a disease severity index (DSI). A DSI of 100 would be given to a plot where all evaluated plants had a rating of 3 and a DSI of 0 would be given to a plot where all evaluated plants had a rating of 0.

DSI and yield values are given as averages of the replications and for multi-year. Maturity, plant height, and lodging values are given as averages over the replications for 2005. LSD (least significant difference, found at the bottom of each data column) values are given for each test. The LSD values are useful for comparing two varieties in the same test and are explained in detail in the Michigan Central and Southern Conventional Soybean Variety Trial Report. The C.V. (coefficient of variation, found at the bottom of each data column) is indicative of the trial precision. Lower C.V. value indicates more precise trials.

SPECIALTY SOYBEAN VARIETIES

Thirteen special-use varieties were tested in this year's white mold trial. This information will help soybean growers compare the potential profitability of special-use varieties to that of conventional varieties. Vinton 81, Dairyland DSR-218, DF Seeds DF222, Hyland's Belmont, Carter, Clancy, Claremont, Crown, Crystal, Sherwin, and Sinclair and NK Brand S20-F8 are widely accepted for various food-grade uses such as soy milk and tofu production. Zeeland Farm Services ZFS 291LS is a low-saturated fat soybean variety grown for oil production.

TABLE 8. 2005 MICHIGAN WHITE MOLD SOYBEAN VARIETY TRIAL REPORT

BRAND	VARIETY	GROUP	TMT*	PHYTO RES	SCN	2005			03-05			2005 AVERAGE			
						MAT	DSI	YIELD	DSI	YIELD	DSI	YIELD	MAT	HEIGHT	LODGING
Asgrow	AG2205(RR)	2.2	AM-C	1k	S	15.0	48.5					9-Sep	39	3.8	
Asgrow	AG3006(RR)	3.0	AM-C	1k,7	MR3*	16.7	46.3					16-Sep	48	3.3	
Asgrow	AG3101(RR)	3.1	AM-C	1c	MR4	7.5	46.5					19-Sep	47	3.0	
D.F. Seeds	DF 222Fd Grd	2.2	AM-C			4.2	49.6	3.4	56.9	8.3	53.8	8-Sep	46	3.0	
D.F. Seeds	DF 255	2.5	AM-C			5.0	47.8					11-Sep	38	3.3	
D.F. Seeds	DF 8192RR	1.9	AM-C	1k		5.9	53.3	3.8	62.0	6.3	56.0	10-Sep	41	2.5	
D.F. Seeds	DF 8205NRR	2.0	AM-C		R	14.2	49.1					12-Sep	39	3.5	
D.F. Seeds	DF 8212NRR	2.1				18.3	42.5					12-Sep	42	3.5	
D.F. Seeds	DF 8263R	2.6				7.5	49.4					13-Sep	42	4.2	
Dairyland	DSR - 1900/RR	1.9	AM-C	1k		6.7	48.0					12-Sep	38	2.8	
Dairyland	DSR - 199/RRRSTS	1.9	AM-C	1k	S	10.8	51.8	6.7	61.4			10-Sep	40	3.5	
Dairyland	DSR - 218	2.1	AM-C		S	4.2	49.7	5.4	59.0	10.0	54.0	10-Sep	45	2.8	
Dairyland	DSR - 234/RR	2.3	AM-C	1k	S	2.5	53.3	1.7	63.3			13-Sep	38	3.0	
Dairyland	DSR - 2500/RR	2.5	AM-C	1k	S	20.8	40.7	12.1	56.3			13-Sep	41	3.8	
Dekalb	DKB18-51(RR)	1.8	AM-C	1k	S	0.0	52.2					5-Sep	37	2.0	
Dekalb	DKB22-52(RR)	2.2	AM-C	S	S	0.0	55.8	0.4	62.3			9-Sep	35	2.3	
Dekalb	DKB26-53(RR)	2.6	AM-C	1c	S	8.3	44.7					14-Sep	44	4.0	
Dyna-Gro	DG-3190RR	1.9	AM-C	1k		2.5	51.0					9-Sep	41	3.3	
Dyna-Gro	DG-3200RR	2.0	AM-C			5.8	52.9					8-Sep	36	1.8	
Dyna-Gro	35C23(RR)	2.3	AM-C			9.2	45.8					9-Sep	42	4.0	
Dyna-Gro	33X19(RR)	1.9	AM-C	1k	R	5.8	47.0					7-Sep	38	3.0	
Dyna-Gro	37T26(RR)	2.6	AM-C	1c		9.2	45.4					13-Sep	44	4.3	
Dyna-Gro	36D24(RR)	2.4	AM-C		R	5.8	47.4					11-Sep	45	3.3	
Garst	2018RR	2.0		1k		5.0	48.9	4.5	61.1			9-Sep	37	2.8	
Garst	2603RR	2.6		1k		4.2	43.6	5.5	56.9	10.6	52.0	11-Sep	41	2.3	
Gutwein	EX 53104RR	3.1		1c	S	15.0	43.1					20-Sep	42	2.5	
Golden Harvest	H-1961RR	1.9		1k	S	3.3	48.3	7.6	60.2	10.9	57.2	9-Sep	39	3.0	
Great Lakes	GL1701RR	1.7	AM-C	1k		0.8	53.7					5-Sep	37	2.0	
Great Lakes	GL1903RR	1.9	AM-C	1k		3.3	52.6	6.3	59.3	10.0	53.7	10-Sep	40	2.0	
Great Lakes	GL2009RR	2.0	AM-C	1k	R	8.3	45.7	7.5	50.9	13.6	49.1	5-Sep	38	3.3	
Great Lakes	GL2201RR	2.2	AM-C	1k		3.3	53.1	2.1	62.4	5.7	57.4	8-Sep	36	2.5	
Great Lakes	GL2302RR	2.3	AM-C	1k		5.0	53.6	6.7	65.7			12-Sep	38	2.5	
Great Lakes	GL2504RR	2.5	AM-C	1k		10.9	49.2					12-Sep	41	3.0	
Great Lakes	GL2550RR	2.5	AM-C	1k		5.6	48.6					14-Sep	42	2.5	
Great Lakes	GL2705RR	2.7	AM-C	1k		1.7	54.0	10.2	62.1			8-Sep	36	1.8	
Great Lakes	GL2719RR	2.7	AM-C	1c	R	4.2	48.3					14-Sep	44	3.8	
Great Lakes	GL2909RR	2.9	AM-C		R	2.5	45.0					16-Sep	43	3.3	
High Cycle by Treley	2163RR	1.6	SG	1k	S	0.0	51.6					5-Sep	37	1.5	
High Cycle by Treley	2222RR	2.2	SG	1k	S	0.8	53.9	0.8	63.3	9.1	58.3	8-Sep	36	2.0	
High Cycle by Treley	2274RR	2.7	SG	1k	S	8.3	50.4	8.4	62.3			13-Sep	40	3.3	
Hyland	Belmont	1.8	C		S	0.8	52.7					8-Sep	43	2.5	
Hyland	Carter	2.1	C		S	8.3	51.8					7-Sep	36	3.3	
Hyland	Crown	1.9	C		S	0.8	51.3					6-Sep	40	3.8	
Hyland	Crystal	1.8	C		S	0.8	48.5					4-Sep	35	3.8	
Hyland	RR Renwick	2.2	C		S	3.3	46.1					11-Sep	43	4.0	
Hyland	RR Respond	1.8	C		R	3.3	44.6					7-Sep	39	2.5	
Hyland	RR Rodney	2.1	C		S	12.5	54.2					9-Sep	41	2.8	
Hyland	Sherwin	1.9	C		R	0.0	51.3					7-Sep	37	3.0	
Hyland	Sinclair	2.1	C		R	5.9	33.7					8-Sep	45	3.8	
Hyland	Claremont	2.1	C		S	0.8	41.7					5-Sep	37	3.5	

TABLE 8. 2005 MICHIGAN WHITE MOLD SOYBEAN VARIETY TRIAL REPORT

BRAND	VARIETY	GROUP	TMT*	RES	PHYTO	SCN	2005			04-05			03-05			2005 AVERAGE		
							DSI	YIELD	DSI	YIELD	DSI	YIELD	DSI	YIELD	MAT	HEIGHT	LODGING	
Hyland	Clancy	2.1	C		S	6.7	47.2							8-Sep	42	4.0		
Legacy	23B18RR	2.3	AM-C	1k		6.7	53.1							12-Sep	37	2.3		
Legacy	26R11(RR)	2.6	AM-C			2.5	44.3							11-Sep	42	3.0		
Legacy	27R70RR	2.7	AM-C	1k		8.3	45.1							15-Sep	45	2.8		
MSU	E00003**	2.8				5.9	46.7							12-Sep	51	4.8		
MSU	E01205**	2.5				17.5	38.4	17.0	51.2					7-Sep	42	3.8		
MSU	E01260**	2.5				0.0	46.9	3.0	58.6					11-Sep	42	2.8		
MSU	E98076**	2.6				5.0	46.4	7.9	57.2	9.2	53.1			13-Sep	42	3.3		
MSU	E99034**	2.5				2.5	46.6							9-Sep	41	3.3		
NK Brand	S14-K6(RR)	1.4	AM-C	1c		4.2	53.5							4-Sep	35	3.0		
NK Brand	S17-P9(RR)	1.7	AM-C	1c		1.7	47.8	2.1	54.6					4-Sep	35	3.0		
NK Brand	S19-R5(RR)	1.9	AM-C	1a		9.2	53.5	4.9	62.3					5-Sep	38	3.0		
NK Brand	S20-F8	2.0	AM-C	1c		2.5	56.6	2.9	63.9					6-Sep	44	4.3		
NK Brand	S22-AZ(RR)	2.2	AM-C	segr. 1k, 1c		7.5	46.1							7-Sep	39	3.8		
NK Brand	S23-Z3(RR)	2.3	AM-C	1a		9.2	50.1							11-Sep	41	4.3		
Pioneer	90M60(RR)	0.6		1c	S	0.0	45.7							2-Sep	32	2.8		
Pioneer	90M61(RR)	0.6		1c	S	0.0	47.6							2-Sep	28	1.5		
Pioneer	90M91(RR)	0.9		1k	S	0.8	48.3							4-Sep	36	3.0		
Pioneer	91M60(RR)	1.6		1c	S	0.8	46.8							5-Sep	38	4.5		
Pioneer	92B38(RR)	2.3		1c	S	4.2	42.6	4.2	53.9	8.4	49.3			10-Sep	41	3.0		
Pioneer	92M00(RR)	2.0		1k	S	1.7	48.0	5.0	58.7	8.0	55.4			7-Sep	38	2.8		
Pioneer	92M10	2.1		1k	S	5.8	47.6							10-Sep	44	3.0		
Pioneer	92M61(RR)	2.6		1c	MR	3.3	50.0							12-Sep	41	3.5		
Pioneer	92M70(RR)	2.7		1c	MR	5.9	47.3	13.3	53.4					14-Sep	44	4.5		
Pioneer	92M72	2.7		1k	S	4.2	53.9							13-Sep	41	1.5		
Pioneer	92M91(RR)	2.9		1k	S	7.5	49.0	7.1	62.3					15-Sep	44	2.8		
Pioneer	93B36(RR)	3.3		1k	MS	9.2	43.0	10.0	59.1	13.1	54.1			18-Sep	45	2.5		
Pioneer	93M11(RR)	3.1		1k	S	3.3	51.0	6.6	61.8					14-Sep	43	2.3		
Public	Titan	1.9	AM			0.0	44.3	0.4	55.9	4.2	52.8			6-Sep	34	2.8		
Public	Vinton 81	2.1	AM			3.3	31.9	4.9	37.4	12.2	34.3			8-Sep	44	4.3		
Rupp	RS 4204RR	2.0	AM-C	1k	S	2.8	53.6	1.4	61.8					8-Sep	35	2.5		
Rupp	RS 4232NRR	2.3	AM-C	1c	MR	10.8	50.9	8.0	64.0					13-Sep	41	3.3		
Vigoro	EX220203(RR)	2.9	AM	1c	R3,MR14	5.0	38.0							16-Sep	44	4.0		
Vigoro	EX730006(RR)	3.0	AM	1c	S	5.9	44.8							20-Sep	45	3.3		
Vigoro	EX821065(RR)	2.9	AM	1c	R3,MR15	2.5	42.6							15-Sep	43	3.5		
Vigoro	V196RRS	1.9	AM	1k	S	10.0	52.7							9-Sep	39	2.3		
Vigoro	V21N6RR	2.1	AM	1k	MR3	12.5	45.7							10-Sep	42	2.5		
Vigoro	V225RR	2.2	AM	1k	S	2.5	53.2	2.1	63.5					8-Sep	34	1.8		
Vigoro	V265RR	2.6	AM	1c	S	1.7	48.7	11.3	55.7					14-Sep	45	4.3		
Vigoro	V275RR	2.8	AM	1c	S	1.7	38.4							18-Sep	44	2.8		
Vigoro	V315RR	3.1	AM	1c	S	5.9	46.6							16-Sep	45	3.0		
Zeeland	ZFS Sel. 291 LS	2.9				8.4	48.6	8.9	58.9					14-Sep	45	3.0		
GRAND MEAN																		
Max. Mean 5.6 48.0 5.6 48.0 5.6 48.0 5.6 48.0 5.6 48.0 5.6 48.0 5.6 48.0 5.6 48.0																		
Min. Mean 0.0 31.9 0.0 31.9 0.0 31.9 0.0 31.9 0.0 31.9 0.0 31.9 0.0 31.9 0.0 31.9 0.0 31.9																		
LSD 5.4																		
CV 9.6																		

*Seed Treatment: See 'Seed Treatment' paragraph (under 'Using the Data') for product code
 **Michigan State University experimental variety

INDEX FOR 2005 SOYBEAN VARIETY PERFORMANCE TRIALS

There were 203 varieties from 31 private and public seed companies entered in 9 county test sites in the 2005 Soybean Variety Performance Trials. Numbers within parentheses refer to the Table in which the variety appears. Company names used in association with variety numbers refer to the brand, and the numbers are the variety designation.

Table 1
Central
Conventional

Allegan
Saginaw
Sanilac

Table 2
Southern
Conventional

Lenawee
St. Joseph
Hillsdale

Table 3
Central Early
Roundup Ready

Allegan
Saginaw
Sanilac

Table 4
Central Late
Roundup Ready

Allegan
Saginaw
Sanilac

Table 5
South Early
Roundup Ready

Lenawee
St. Joseph
Hillsdale

Table 6
South Late
Roundup Ready

Lenawee
St. Joseph
Hillsdale

Table 7
Northern
Roundup Ready

Grand Traverse
Montmorency

Table 8
White Mold
Ingham

ADM Grain Co.
ADM 281** (2)

Monsanto

ASGROW A2442 (1,2)
ASGROW A2869 (1,2)
ASGROW AG0801(RR) (7)
ASGROW AG0803(RR) (7)
ASGROW AG1102(RR) (7)
ASGROW AG1401(RR) (7)
ASGROW AG1502(RR) (3,7)
ASGROW AG1702(RR) (3)
ASGROW AG1903(RR) (3)
ASGROW AG2106(RR) (3)
ASGROW AG2107(RR) (3)
ASGROW AG2203(RR) (4,5)
ASGROW AG2205(RR) (4,5,8)
ASGROW AG2403(RR) (4,5)
ASGROW AG2703(RR) (5)
ASGROW AG2705(RR) (5)
ASGROW AG2801(RR) (6)
ASGROW AG3006(RR) (6,8)
ASGROW AG3101(RR) (6,8)
ASGROW AG3203(RR) (6)
ASGROW AG3305(RR) (6)

Bayside Seeds, LLC
BAYSIDE 200 (1)

Bayside Seeds, LLC

BAYSIDE/NORTH GRO NB081RR (7)
BAYSIDE/NORTH GRO NB192RR (3)
BAYSIDE/NORTH GRO NB202NRR (3)
BAYSIDE/NORTH GRO NB215RR (3)
BAYSIDE/NORTH GRO NB260RR (4,5)

Beck's Superior Hybrids

BECK 297NRR (6)
BECK 321NRR (6)

Bio Gene Seeds

BIO GENE BG1506RN (3)

Croplan Genetics

CROPLAN RC 2020(RR) (3)
CROPLAN RC 2092(RR) (3)
CROPLAN RC 2292(RR) (4)
CROPLAN RC 2544(RR) (4)
CROPLAN RC 2678(RR) (4)

Crow's Hybrid Corn Co.

CROW'S C2618R (5)
CROW'S C3142R (6)

D.F. Seeds, Inc.

D.F. SEEDS DF222 **Food Gd (1,8)
D.F. SEEDS DF255 (1,8)
D.F. SEEDS DF309 (2)
D.F. SEEDS DF8192RR (3,8)
D.F. SEEDS DF8205NRR (3,8)
D.F. SEEDS DF8212NRR (3,8)
D.F. SEEDS DF8242NRR (4,5)
D.F. SEEDS DF8251RR (4,5)
D.F. SEEDS DF8263RR (4,5,8)
D.F. SEEDS DF8264XR (5)
D.F. SEEDS DF8274RR (5)
D.F. SEEDS DF8311RR (6)

Dairyland Seed Co., Inc.

DAIRYLAND DSR-050/RR (7)
DAIRYLAND DSR-0701/RR (7)
DAIRYLAND DSR-1301/RR (7)
DAIRYLAND DSR-1900/RR (3,8)
DAIRYLAND DSR-199/RRSTS (3,8)
DAIRYLAND DSR-218** (1,8)
DAIRYLAND DSR-221/RR (3)
DAIRYLAND DSR-234/RR (4,5,8)
DAIRYLAND DSR-2500/RR (5,8)
DAIRYLAND DSR-2600/RR (5)
DAIRYLAND DSR-2800/RRSTS (6)
DAIRYLAND DSR-3000/RRSTS (6)

Monsanto

DEKALB DKB 07-52(RR) (7)
DEKALB DKB 18-51(RR) (3,8)
DEKALB DKB 22-52(RR) (4,8)
DEKALB DKB 26-53(RR) (4,5,8)
DEKALB DKB 28-52(RR) (4,6)
DEKALB DKB 29-51(RR) (6)
DEKALB DKB 31-51(RR) (6)

UAP Great Lakes

DYNA-GRO 31T31(RR) (6)
DYNA-GRO 33X19(RR) (3,8)
DYNA-GRO 35C23(RR) (4,8)
DYNA-GRO 36D24(RR) (4,8)
DYNA-GRO 37B28(RR) (6)
DYNA-GRO 37K32(RR) (6)
DYNA-GRO 37T26(RR) (4,5,8)

UAP Great Lakes (con't)

DYNA-GRO 38K28(RR) (6)
DYNA-GRO 39P22(RR) (4,5)
DYNA-GRO DG-3190RR (3,8)
DYNA-GRO DG-3200RR (3,5,8)

Garst Seed Company

GARST 0999RR (7)
GARST 1499RR (7)
GARST 1827RR (3)
GARST 2018RR (3,8)
GARST 2332RR (4)
GARST 2560RR (4,5)
GARST 2603RR (4,8)
GARST 2834RR (4,6)
GARST 3065RR/STS (6)
GARST XR25Y17(RR) (4)

Golden Harvest Seeds, Inc.

GOLDEN HARVEST H-1961RR (3,8)
GOLDEN HARVEST H-2124RR (3)

Great Lakes Hybrids

GREAT LAKES GL1701RR (3,8)
GREAT LAKES GL1903RR (3,8)
GREAT LAKES GL2009RR (3,8)
GREAT LAKES GL2201RR (4,8)
GREAT LAKES GL2302RR (4,8)
GREAT LAKES GL2429RR (4)
GREAT LAKES GL2504RR (4,8)
GREAT LAKES GL2550RR (4,8)
GREAT LAKES GL2705RR (5,8)
GREAT LAKES GL2719RR (5,8)
GREAT LAKES GL2909RR (6,8)
GREAT LAKES GL3119RR (6)

Gries Seed Farms, Inc.

GRIES GSF 337RR (6)

Golden Harvest Seeds, Inc.

GUTWEIN EX 53104RR (6,8)

Helena Brand Seed

HELENA 2074(RR) (3)
HELENA 2133(RR) (3)

Trelay

HIGH CYCLE by TRELAY 2163RR (3,8)
HIGH CYCLE by TRELAY 2175RR (3)

Trelay (con't)

HIGH CYCLE by TRELAY 2222RR (4,8)
HIGH CYCLE by TRELAY 2223RR (4)
HIGH CYCLE by TRELAY 2224RR (4)
HIGH CYCLE by TRELAY 2245RR (4)
HIGH CYCLE by TRELAY 2263RR (5)
HIGH CYCLE by TRELAY 2274RR (5,8)
HIGH CYCLE by TRELAY 2292RR (6)
HIGH CYCLE by TRELAY 2293RR (6)

Hyland Seeds

HYLAND – BELMONT** (1,8)
HYLAND – CARTER** (1,8)
HYLAND – CLANCY** (1,8)
HYLAND – CLAREMONT** (1,8)
HYLAND – CROWN** (1,8)
HYLAND – CRYSTAL** (1,8)
HYLAND - RR RENWICK (4,8)
HYLAND - RR RESPOND (3,8)
HYLAND - RR RODNEY (3,8)
HYLAND – SHERWIN** (1,8)
HYLAND – SINCLAIR** (1,8)

Latham Seed Company

LATHAM 497RR Brand (4)
LATHAM E2635R (5)
LATHAM E2646R (5)
LATHAM E3157R (6)
LATHAM L2336R Brand (4)
LATHAM L2900R Brand (6)

Legacy Brand Hybrids Inc.

LEGACY 23B18RR (4,8)
LEGACY 26C41 (2)
LEGACY 26M81RR (4,5)
LEGACY 26R11(RR) (4,8)
LEGACY 27R70RR (4,5,8)
LEGACY 30B30NRR (6)

Midwest Seed Genetics

MIDWEST GR2651(RR) (5)
MIDWEST GR3102(RR) (6)

Syngenta Seeds

NK BRAND S12-B9(RR) (7)
NK BRAND S14-K6(RR) (3,7,8)
NK BRAND S17-P9(RR) (3,8)
NK BRAND S19-R5(RR) (3,8)
NK BRAND S20-F8** (1,8)
NK BRAND S22-A2(RR) (4,8)
NK BRAND S23-Z3(RR) (4,8)
NK BRAND S25-B9(RR) (4,5)
NK BRAND S28-G1(RR) (6)
NK BRAND S30-D4(RR) (6)
NK BRAND S32-G5(RR) (6)

Pioneer Hi-Bred International, Inc.

PIONEER 90B60(RR) (7,8)
PIONEER 90M61(RR) (7,8)
PIONEER 90M91(RR) (7,8)
PIONEER 91M60(RR) (7,8)
PIONEER 92B38(RR) (4,8)
PIONEER 92M00(RR) (3, 8)
PIONEER 92M10 (1,8)
PIONEER 92M61(RR) (4,5,8)
PIONEER 92M70(RR) (4,5,8)
PIONEER 92M72 (1,2,8)
PIONEER 92M91(RR) (4,6,8)
PIONEER 93B36(RR) (6,8)
PIONEER 93M11(RR) (4,6,8)

**MI Crop Improvement Assoc.
(MCIA)**

PUBLIC SANDUSKY (2)
PUBLIC TITAN (1,8)
PUBLIC VINTON 81** (1,8)

Renk Seed

RENK RS165RR (3)
RENK RS185RR (3)
RENK RS204NRR (3)
RENK RS223RR (4)
RENK RS253RR (4)
RENK RS265RR (5)
RENK RS295NRR (6)

Rupp Seed, Inc.

RUPP RS 4XP53(RR) (4,5)
RUPP RS 4XP61(RR) (4,5)
RUPP RS 4204RR (3,8)
RUPP RS 4232NRR (4,5,8)
RUPP RS 4295RR (6)
RUPP RS 4314RR (6)

Steyer Seeds

STEYER S 2620RR (5)
STEYER S 3030RR (6)

Royster-Clark, Inc.

VIGORO EX220203(RR) (6,8)
VIGORO EX730006(RR) (6,8)
VIGORO EX821065(RR) (6,8)
VIGORO V196RRS (3,8)
VIGORO V213RR (3)
VIGORO V21N6RR (3,8)
VIGORO V225RR (4,8)
VIGORO V234RR (4,5)
VIGORO V265RR (4,5,8)
VIGORO V275RR (6,8)
VIGORO V315RR (6,8)

Wellman Seeds, Inc.

WELLMAN W 3431RR (6)
WELLMAN W 3526RR (5)

Wolf River Valley Seeds

WOLF RIVER WRV 2503RR (7)
WOLF RIVER WRV 2507RR (7)

Zeeland Farm Services, Inc.

ZEELAND ZFS SELECT 211 LS** (1)
ZEELAND ZFS SELECT 271 LL** (1,2,8)
ZEELAND ZFS SELECT 291 LS** (1,2,8)

** This denotes specialty
soybean varieties.

DIRECTORY OF COMPANIES

<u>BRAND</u>	<u>COMPANY NAME AND ADDRESS</u>	<u>BRAND</u>	<u>COMPANY NAME AND ADDRESS</u>
ADM	ADM Grain Co. 4666 Faries Parkway, Decatur, IL 62526	HELENA	Helena Brand Seed 11711 N. Pennsylvania St., Suite 270 Carmel, IN 46032
ASGROW	Monsanto 800 N. Lindbergh Blvd., St. Louis, MO 63167	HIGH CYCLE by TRELAY	Trelay 11623 Hwy 80, Livingston, WI 53554
BAYSIDE/ NORTH GRO	Bayside Seeds, LLC 259 Bowker Rd., Munger, MI 48747	HYLAND	Hyland Seeds 2 Hyland Dr., Blenheim, Ontario Canada N0P1A0
BECK	Beck's Superior Hybrids 6767 E. 276th Street, Atlanta, IN 46031	LATHAM	Latham Seed Company 131 180 th St., Alexander, IA 50420
BIO GENE	Bio Gene Seeds 5477 Tri-County Hwy., Sardinia, OH 45171	LEGACY	Legacy Brand Hybrids Inc. 11384 Laberdee, Deerfield, MI 49238
CROPLAN	Croplan Genetics 12216 Ithaca, St. Charles, MI 48655	MIDWEST	Midwest Seed Genetics P.O. Box 518, Carroll, IA 51401
CROW'S	Crow's Hybrid Corn Co. P.O. Box 157, Kentland, IN 47951	NK BRAND	Syngenta Seeds, Inc. 9812 Firefly, Galesburg, MI 49053
D.F. SEEDS	D.F. Seeds, Inc. P.O. Box 159, Dansville, MI 48819	PIONEER	Pioneer Hi-Bred International, Inc. 210 Westfield Drive, Archbold, OH 43502
DAIRYLAND	Dairyland Seed Co., Inc. 3570 Hwy. H, West Bend, WI 53095	PUBLIC	Michigan Crop Improvement Assn. 2905 Jolly Rd., Okemos, MI 48864
DEKALB	Monsanto 800 N. Lindbergh Blvd. St. Louis, MO 63167	RENK	Renk Seed 6800 Wilburn Rd., Sun Prairie, WI 53590
DYNA-GRO	UAP Northeast 240 S. Bridge St., Dewitt, MI 48820	RUPP	Rupp Seed, Inc. 17919 Co. Rd. B, Wauseon, OH 43567
GARST	Garst Seed Company 2369-330th St., Slater, IA 50244	STEYER	Steyer Seeds 6154 N.C. Rd. 33, Tiffin, OH 44883
GOLDEN HARVEST	Golden Harvest Seeds, Inc. P.O. Box 248, Pekin, IL 61555	VIGORO	Royster-Clark, Inc. 717 Robinson Rd. SE Washington C.H., OH 43160
GREAT LAKES	Great Lakes Hybrids 9915 W. M-21, Ovid, MI 48866	WELLMAN	Wellman Seeds, Inc. 23778 Delphos Jennings Rd. Delphos, OH 45833
GRIES	Gries Seed Farms, Inc. 2348 N. Fifth St., Fremont, OH 43420	WOLF RIVER	Wolf River Valley Seeds N2976 Hwy. M, White Lake, WI 54491
GUTWEIN	Golden Harvest Seeds, Inc. P.O. Box 248, Pekin, IL 61555	ZEELAND FARM SERV.	Zeeland Farm Services, Inc. 2468 84th Avenue, Zeeland, MI 49464

Our soybean checkoff.
Effective. Efficient. Farmer-Driven.



Dear Fellow Soybean Producers,

Analyzing soybean performance data to assist in the selection of varieties to plant on your farm has never been more important or complicated. Over the years we have successfully faced the challenges of the introduction of herbicide specific varieties while addressing the agronomics of white mold and the soybean cyst nematode. In 2000, another pest, the soybean aphid, was identified in most Michigan soybean producing counties with 2005 infestation levels providing opportunities to refine aphid control measures. For the 2005 crop year, Sudden Death Syndrome and Brown Stem Rot were a growing problem across Michigan and even though we did not experience Soybean Rust, we must continue to recognize its potential. It is obvious growers must look at many items for their seed selections: yield, maturity, protein content, disease resistance and more!

Change is constant in our industry. The format of this 2005 Soybean Performance Report is intended to provide basic performance information. Included is data for your review when considering yield, maturity, phytophthora resistance, white mold tolerance, SCN varieties, protein and oil content (not at all locations) as well as yield information for herbicide specific varieties. While it makes for a large report, growers can access those varietal characteristics most important to their needs. You can access the Soybean Performance Report on the web at www.css.msu.edu/varietytrials/.

The soybean checkoff program is managed by seven soybean producers from the seven soybean districts throughout Michigan. As producers, we are on the front line of the many challenges facing our industry. It is through the investment of your soybean checkoff in programs such as the Soybean Performance Report printing and distribution that we not only research grower needs but we inform Michigan producers of the research results which can then translate to greater profit opportunities.

For the 15th consecutive year, we are distributing this report FREE to you via direct mail, through extension offices, at meetings, shows, elevators, and farm supply stores, in hopes that you will utilize the data in selecting the varieties most appropriate for your farm in preparing for the 2006 planting season.

Sincerely,

Michigan Soybean Promotion Committee Directors

District #1	Ed Cagney, Scotts – 269.327.5157	District #5	Mark Bierlein, Reese – 989.868.3534
District #2	Andy Welden, Jonesville – 517.849.2582	District #6	Vacant
District #3	Blaine Baker, Clayton – 517.445.2346	District #7	Loren Roslund, Ithaca – 989.875.3310
District #4	Jim Domagalski, Columbus – 586.727.9639		



*Recipient: Please notify us of duplicate mailings
to help save valuable checkoff funds.*

NON-PROFIT ORG.
U.S. POSTAGE
PAID
Ithaca, MI
Permit No. 35