

2025 MICHIGAN SOYBEAN PERFORMANCE REPORT

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This report provides information on the performance of Conventional and Roundup Ready soybean varieties in Michigan in 2025.

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

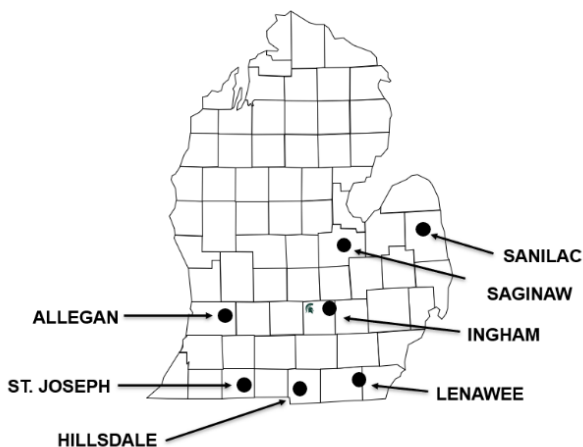
TESTING PROCEDURES

Soybean trials are reported for Central and South zones of Michigan. The Central locations for the Conventional and Roundup Ready trials include test sites in Allegan, Ingham, Saginaw, and Sanilac Counties. The Southern locations for the Conventional and Roundup Ready trials include test sites in Hillsdale, Ingham, Lenawee, and St. Joseph (irrigated) Counties.

Nineteen seed companies entered a total of 151 commercial varieties, not including the 48 experimental MSU lines. The cooperators, planting dates, harvest dates, and other site details for the 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 160,000 seeds/acre. At each location, varieties were replicated three times in a Randomized Complete Block Design (RCBD). All locations were planted to 17 feet with 3-foot alleys. Alleys in Allegan County were trimmed to 5 feet wide, other alleys were not trimmed. Only the center four rows were harvested. Experimental design, data management, and data analysis were conducted with Genovix, (Agronomix Software, Inc., Winnipeg, Canada).

2025 TEST SITE COUNTY LOCATIONS



TEST SITE INFORMATION

Lenawee County

Nearest city: Britton

Cooperator: Jason Woods

Planting date: May 30, 2025

Harvest date: October 27, 2025

Previous crop: Corn

Soil type: Silty Clay Loam

Fertilizer: 200 lbs. K₂O

Herbicides: Pre-emerge – 8 oz./A Authority Supreme,
11 oz./A Metribuzin

Hillsdale County

Nearest city: Reading

Cooperator: Matt Lennard

Planting date: May 27, 2025

Harvest date: October 14, 2025

Previous crop: Corn

Soil type: Matherton Loam

Fertilizer: Potash/DAP grid sampled

Herbicides: Pre-emerge – 8 oz./A Authority Supreme, 11
oz./A Metribuzin

Post-emerge – 32 oz./A Bassagran, 32 oz./A Tapout

St. Joseph County - Irrigated

Nearest city: Mendon

Cooperator: Roger, Anne Gentz and Family

Planting date: May 28, 2025

Harvest date: October 16, 2025

Previous crop: Seed Corn

Soil type: Oshtemo Sandy Loam

Fertilizer: 125# Potash & 75# K-mag

Herbicides: Pre-emerge – 8 oz./A Authority Supreme, 11
oz./A Metribuzin

Ingham County

Nearest city: Webberville

Cooperator: Walnut-Vu Farm

Planting date: May 19, 2025

Harvest date: October 13, 2025

Previous crop: Corn

Soil type: Conover Loam

Fertilizer: None

Herbicides: Pre-emerge – 8 oz./A Authority Supreme,
11oz./A Metribuzin

Allegan County

Nearest city: Hopkins

Cooperator: Paul Collier

Planting date: June 2, 2025

Harvest date: October 17, 2025

Previous crop: Corn

Soil type: Sebewa Loam

Fertilizer: 175# Potash

Herbicides: Pre-emerge – Authority Supreme, Dual,
Metribuzin

Post Conventional Trials – 32 oz./A Bassagran, 5 oz./A
Raptor, 16 oz./A Topgun

Secondary Post: Conventional – 12.5 oz./A Cobra

Saginaw County

Nearest city: Saginaw
Cooperator: Tom Hoff
Planting date: May 15, 2025
Harvest date: October 6, 2025
Previous crop: Soybeans
Soil type: Tappan Loam
Fertilizer: 200 lbs. Potash
Herbicides: Pre-emerge: 8 oz./A Authority Supreme, 11 oz./A Metribuzin

Sanilac County

Nearest city: Sandusky
Cooperator: Gerstenberger Farms, Inc.
Planting date: May 15, 2025
Harvest date: October 16, 2025
Previous crop: Corn
Soil type: Parkhill Loam
Fertilizer: Variable Rate
Herbicides: Pre-emerge 16 oz./A Lorox, 24 oz./A Medal II
Post Conventional Trials – 32 oz./A Bassagran,
Post Roundup Ready Trials – 32 oz./A Bassagran, 24 oz./A Glyphosate

GROWING CONDITIONS AND COMMENTS

A review of Michigan's 2025 growing season shows that a dry spring with moderate weather provided for some early planting and overall normal planting conditions. The planting season for the MSU soybean research plots ran from May 15th to June 2nd.

Soybeans experienced favorable mid-season moisture from July rains. However, August-September drought conditions hit most of Michigan, especially from the Saginaw Bay to Grand Rapids area. This stressed late pods and, in some cases, affected bean size. Due to dry conditions at the Hillsdale location, slight field variations affected yield and caused high coefficient of variation, so yield data is not included in this report.

Overall weather patterns provided warm temperatures in September and through most of October. Most soybeans were dry and ready to harvest slightly earlier than normal. Soybean performance trial harvest ran from October 6 through October 27. The Lenawee location ended with very high yield.

USING THE DATA

Results are presented in Tables 1 through 6.

Yield: Yield is expressed as bushels per acre at 13% moisture and is reported as single and across site means for 2025. Two- and three-year means are also presented where applicable.

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 3 replications at all sites.

Lodging: Lodging scores reflect the erectness of the plants before harvest. The reported values are means of 3 replications at all sites. Ratings are based on the following scale:

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

Protein and Oil Content: Protein and oil content of the seed was determined using near-infrared reflectance and is expressed on a **DRY MATTER** basis. The analysis was done on seed from all 3 replications from the Ingham location.

Phytophthora Resistance: Information on the presence of Phytophthora resistant genes were 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. The source of resistance was mostly PI88788 with some Peking and PI89722. Sources are found in parenthesis after the variety name in the variety list table.

SELECTING A VARIETY

Some of the varieties in the conventional trials have special traits such as a specific oil profile, which growers can sell for premium prices. Talk to the seed dealer about premium varieties. Seed dealers and their contact information are listed in the 'Index of Varieties and the "Directory of Companies".

LSD values (least significant difference) are found at the bottom of each data column and 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) can be found at the bottom of each data column and is indicative of the trial precision. Lower C.V. values are associated with higher precision.

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.

HERBICIDE TRAITS

The column in the chart labeled HERB contains the variety of herbicide resistance.

- Conv=conventional
- LL=Liberty Link
- RR1=Roundup Ready
- RR2X=Roundup Ready 2 Extend
- XF=Extend Flex
- E3=Enlist E3
- GT27=Glyphosate Tolerant
- LLGT27=Liberty Link and Glyphosate Tolerant

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'.

Code	Treatment
• A	Apron
• ACL	Acceleron-Insecticide
• AM	Apron Maxx (Maxim)
• CM	Cruiser Maxx-Insecticide
• CM-APX	Cruiser Maxx APX-Fungicide/Insecticide
• DFender	Defender-Fungicide
• ESC	Escalate-Fungicide/Insecticide/Nematicide
• ECL-Trio	Eclipse Trio-Fungicide
• Eq-VAYO	Equity VAYO-Fungicide/Insecticide
• I	ILeVO (BayerCropScience)-Nematicide
• L-COAT	L-COAT TOTAL-Fungicide/Insecticide
• LLLSS	Lumiderm- Insecticide, Lumiantefungicide, LumiTreo- Fungicide, Senator 600 FS- Insecticide, Sebring- Fungicide
• N-Durance	Innoculant
• Obv	Obvius Plus-Fungicide
• P	Poncho-Insecticide/Nematicide
• Rel	Relenya-Fungicide
• Sa	Salto-Nematicide
• Sen	Senator 600 FS- Insecticide
• Step2	Stepup 2.0- Protein and amino acid supplement
• SSS	Seed Shield Select-Fungicide/Insecticide
• Titan	Titan-Insecticide
• T-Elite	Titan Elite ST- Biostimulant & Fungicide/Insecticide
• UT	Untreated
• Vib	Vibrance Maxx-Fungicide
• V	Votivo-Insecticide/Nematicide
• Vay	VayantisIV-Maxim/Apron/Sedaxane/Vayantis
• WycKOAT	WycKOAT- Soy-Defense + Salto

TABLE 2. 2025 MICHIGAN SOUTH CONVENTIONAL SOYBEAN VARIETY TRIAL REPORT

BRAND	VARIETY	Maturity Group	Herb.	TMT ¹	Phyto RES SCN		YIELD (BU/AC)									
							2025 AVG	24-25 AVG	23-25 AVG	2025 AVERAGE						
										Ingham	Lenawee	St. Joseph	Height	Lodging	Protein	Oil
Confluence Genetics	BH23H228	2.3	Conv	CM-APX+Sa			69.6			50.4	87.4	70.9	42.0	1.1	39.6	20.0
Confluence Genetics	N2358	2.3	Conv	CM-APX+Sa	1a		64.0			47.8	77.3	66.9	41.6	1.0	43.6	19.1
DF Seeds	DF 155 N	2.5	Conv	DFender	1k	S	72.6	66.8	62.5	54.1	89.2	74.3	42.3	2.0	39.7	20.2
DF Seeds	DF 205 N	2.0	Conv	DFender		R	70.5			52.5	82.3	76.7	42.1	1.4	39.9	19.4
DF Seeds	DF 214 N	2.1	Conv	DFender	1c	R	81.4			65.2	92.5	86.5	42.4	1.0	39.4	19.7
DF Seeds	DF 234 N	2.3	Conv	DFender	1k	R	72.4	68.3		60.3	88.2	68.8	40.7	1.0	38.9	19.6
DF Seeds	DF 262 N F	2.6	Conv	DFender	1k	R	63.0	61.0	56.5	48.5	73.8	66.8	41.0	1.1	40.4	19.6
DF Seeds	DF 266 N	2.6	Conv	DFender	1k	R	74.5			56.8	90.4	76.2	42.4	1.0	36.9	20.4
DF Seeds	DF 282 N	2.6	Conv	DFender	1c	R	80.0	74.6	69.9	*65.6	97.0	77.2	42.0	1.1	38.7	19.6
FS HiSOY	HS 15C00	1.5	Conv	ACL+Sa	1k	R	78.4	68.2	63.8	63.7	93.2	78.4	37.1	1.1	37.0	21.2
FS HiSOY	HS 19C20	1.9	Conv	ACL+Sa	1k	R	81.6	72.1	66.7	60.6	95.0	*89.1	36.7	1.0	36.4	20.9
FS HiSOY	HS 28C20	2.8	Conv	ACL+Sa	1c	R	76.3	72.2	68.6	60.8	95.8	72.2	40.7	1.0	37.1	20.3
MSU	E13268	1.7	Conv	DFender	1c		74.8	67.6	64.1	53.9	88.2	82.3	40.4	1.2	36.8	21.4
MSU	E15345	2.7	Conv	DFender		R	68.3	66.9	63.7	54.5	88.0	62.3	42.8	3.0	35.7	20.2
MSU	E15351	1.8	Conv	DFender	1c	MR	73.0	69.1	65.5	53.2	90.2	75.8	43.8	2.6	36.4	21.9
MSU	E17283	2.7	Conv	DFender	1k	R	71.0	66.4	64.7	50.0	92.2	70.8	42.4	1.0	37.9	21.0
MSU	E18610T	2.0	Conv	DFender			68.0	63.7	59.6	47.5	86.1	70.3	40.9	2.6	39.6	19.8
MSU	E18638T	2.0	Conv	DFender		MR	70.7	66.0	62.1	51.2	84.2	76.8	41.4	2.3	39.9	20.4
MSU	E19314T	1.6	Conv	DFender	1k, 3a	R	66.4	61.6	59.2	49.1	81.2	68.7	39.0	1.7	39.3	20.0
MSU	E20026	2.2	Conv	DFender	1k, 6	R	74.5			59.2	85.2	79.0	44.0	1.6	36.5	21.5
MSU	E20078	1.7	Conv	DFender	1a	R	74.2	68.5	64.5	53.3	86.3	83.1	46.3	1.9	37.9	20.7
MSU	E20333	2.6	Conv	DFender	1k	R	67.0	66.8	62.5	57.6	85.3	58.0	46.1	1.7	37.3	20.3
MSU	E20355	2.9	Conv	DFender	1k	R	71.2	67.7	64.9	55.4	84.1	74.0	45.7	1.1	35.4	20.6
MSU	E21062T	2.6	Conv	DFender	1k	R	73.9	68.6	65.3	56.0	87.1	78.5	37.9	1.0	37.6	21.8
MSU	E21100	1.8	Conv	DFender		R	77.0	69.2		56.9	89.9	84.1	38.1	1.0	37.3	21.9
MSU	E21107	2.9	Conv	DFender	1k	R	71.2	68.1		55.3	86.7	71.7	40.8	1.8	35.0	20.7
MSU	E21109	2.5	Conv	DFender	1k	R	72.3	67.4		59.6	89.7	67.6	42.8	1.0	36.6	19.7
MSU	E21118	2.9	Conv	DFender	1a,1k	R	71.9	67.6		55.9	89.6	70.2	40.0	1.0	38.0	20.1
MSU	E21125	2.4	Conv	DFender	1k		76.0	68.9		56.9	94.3	76.6	43.8	1.2	37.4	19.6
MSU	E21127	2.3	Conv	DFender	1a		77.9	71.3		58.3	94.0	81.4	43.0	1.1	37.1	19.8
MSU	E21345	2.4	Conv	DFender	1a		75.8	67.7		57.8	92.8	76.7	41.6	1.2	37.2	19.6
MSU	E21378HOS	2.0	Conv	DFender		R	66.3			53.9	80.7	64.3	42.8	1.3	37.7	20.5
MSU	E22407	2.8	Conv	DFender		R	65.0	65.8		55.1	81.4	58.4	42.9	2.7	37.4	20.9
MSU	E22415	2.9	Conv	DFender		R	69.1	66.7		59.9	88.9	58.6	43.3	2.4	36.1	21.5
MSU	E22416	2.7	Conv	DFender		R	66.5	65.3		53.7	83.4	62.4	43.4	3.0	36.6	20.9
MSU	E22417	2.7	Conv	DFender		R	71.3	67.6		55.5	85.6	72.9	44.6	2.3	36.6	21.4
MSU	E23002	2.4	Conv	DFender		R	69.0			59.0	91.1	57.0	42.7	2.3	37.7	20.5
MSU	E23010	1.9	Conv	DFender		R	64.7			54.2	87.8	52.2	40.6	1.3	36.2	20.9
MSU	E23036	1.9	Conv	DFender		R	76.6			56.2	95.2	78.4	41.3	2.1	37.8	20.9
MSU	E23043	2.6	Conv	DFender		R	70.5			52.7	86.4	72.5	44.7	1.8	37.7	19.3
MSU	E23046	2.6	Conv	DFender		R	69.3			53.7	95.1	59.0	45.0	3.0	38.6	19.7
MSU	E23136HOS	2.6	Conv	DFender		R	61.1			47.1	81.5	54.7	40.2	1.0	37.9	21.1
MSU	E23142HOS	2.7	Conv	DFender		R	67.6			48.2	83.6	70.9	38.4	1.6	37.8	21.2
MSU	E23180HOS	2.2	Conv	DFender		R	66.4			56.4	85.5	57.2	41.9	1.6	38.5	21.4
MSU	E23194	2.1	Conv	DFender		R	69.5			47.2	92.8	68.6	41.6	1.1	38.3	21.0
MSU	E23213	2.2	Conv	DFender		R	64.9			50.1	86.8	57.8	43.2	2.6	35.7	21.2
MSU	E24051HOS	1.5	Conv	DFender		R	62.1			43.1	75.6	67.5	35.0	1.0	37.6	21.3
New Age	NA2200	2.0	Conv	CM	1c	R	70.1			54.6	84.5	71.1	42.1	1.0	39.2	19.9

							YIELD (BU/AC)										
							2025 AVERAGE										
BRAND	VARIETY	Maturity Group	Herb.	TMT ¹	Phyto RES	SCN	2025 AVG	24-25 AVG	23-25 AVG	Ingham	Lenawee	St. Joseph	Height	Lodging	Protein	Oil	
New Age	NA2700	2.7	Conv	CM	1c	R	73.4	67.3		51.6	88.1	80.6	42.4	1.0	39.9	19.3	
Puris	WF2520	2.5	Conv	UT			55.4			44.6	75.0	46.6	45.3	1.6	39.2	20.0	
Puris	WF2600	2.6	Conv	UT			58.8			43.9	75.9	56.6	48.1	1.6	39.1	19.6	
Silverline	S23-T5	2.3	Conv	CM	1c	R	75.7	68.0		55.0	94.7	77.4	41.8	1.0	38.5	20.0	
Star of the West	DF STAR 2400	2.4	Conv	SSS			73.6	67.0		53.8	88.1	78.9	42.4	2.1	38.9	21.3	
Star of the West	STAR 18	1.8	Conv	SSS			49.2			42.0	64.9	40.8	44.9	3.1	37.8	19.9	
Star of the West	STAR 2.4	2.5	Conv	SSS			61.1			44.7	72.2	66.4	47.7	1.6	40.1	19.3	
Star of the West	STAR 25	2.5	Conv	SSS			56.3	52.9	49.2	43.3	77.9	47.6	34.6	1.3	36.1	19.1	
Star of the West	STAR 9430	2.2	Conv	SSS			48.3	45.6	41.6	41.5	67.2	36.4	40.6	3.6	36.7	16.1	
Viking Blue River	27B4	2.7	Conv	UT	1c	R	79.7	72.7		63.2	92.7	83.1	44.1	1.1	38.0	21.1	
Viking Blue River	30B6	3.0	Conv	UT		R	*82.8			62.3	*98.1	88.0	38.9	1.1	37.1	21.0	
Zeeland Farm Services	ZFS 1326	2.6	Conv	T-Elite+N-Durance		R	67.1	62.1	58.3	46.4	83.6	71.2	43.0	3.1	38.7	20.6	
Zeeland Farm Services	ZFS 2023	2.0	Conv	T-Elite+N-Durance		R	72.4	66.8	63.1	47.6	90.1	79.5	38.3	1.0	38.5	21.0	
Zeeland Farm Services	ZFS 2726	2.7	Conv	UT		R	79.2			60.3	92.5	84.8	41.7	1.2	37.1	21.3	
Zeeland Farm Services	ZFS 3126	3.1	Conv	UT			72.4			52.2	85.1	79.9	43.3	1.0	38.7	19.3	
GRAND MEAN							70.1			53.7	86.5	70.1	42.0	1.6	37.9	20.4	
Max.							82.8			65.6	98.1	89.1	48.1	3.6	43.6	21.9	
Min.							48.3			41.5	64.9	36.4	34.6	1.0	35.0	16.1	
LSD (0.05)							4.3			7.0	6.6	7.9					
CV (%)							7.9			9.7	5.6	8.3					

¹ Seed Treatment: See 'Seed Treatment' paragraph (under 'Using the Data') for product code

* High yield in plot

Top 1/3 of trial is Bold

Michigan State University varieties are experimental