

Test by: F.I.R.S.T. MSR, Inc. Columbia, MO

2025 Soybeans Top 30 Harvest Report

Missouri North [MONO] MARYVILLE, MO

Thummel Enterprises, Inc., Jeff & Deb Thummel, Nodaway County, MO

All-Season Test	Maturity Group 3.3 - 4.5 S2025MONO01
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Surestart, Laudis, Atrazine, Glyphosate
SOIL DESCRIPTION:	Colo silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	6.45 pH, 3.68% OM, 17.53 CEC, high P, high K, low S, high B, high Zn
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Spartan, Metribuzin, Liberty
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 18 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 22 119.1 /A
PEST & DISEASE RISK:	SDS, Fusarium, Brown Stem Rot, Red Crown Rot, Frogeye Leaf Spot, Cercospora Blight of Soybean*

TEST COMMENTS:

This plot was planted in fit and warm soil conditions on this no-till site. There was quick emergence. With no green stem, harvest went smoothly. Good-looking North Missouri no-till soybean trial for 2025.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Burrus	3578E ↗	E3	3.5	M	80.3	11.0	1	118.3	774	1
AgVenture	AV43B2BE ↗	E3,ST	4.3	M	80.0	11.1	2	122.0	771	2
DONMARIO	DM38E54 ↗	E3	3.8	M	78.8	11.1	1	120.0	760	3
Burrus	4353E ↗	E3	4.3	M	78.5	11.2	1	112.3	757	4
DONMARIO	DM36E94 ↗	E3	3.6	M	78.2	11.0	1	122.0	754	5
NuTech	43N11BE ↗	E3,ST	4.3	M	78.2	11.1	2	128.0	754	6
FS HiSOY	HS 39E40 ↗	E3,ST	3.9	M	78.0	11.4	1	124.0	752	7
Agrisoy	38A04E ↗	E3	3.8	M	77.6	11.0	2	114.3	748	8
AgVenture	AV36B2E ↗	E3	3.6	M	77.5	10.9	1	116.0	747	9
Pioneer	P40Z57E GC ↗	E3	4.0	R	77.4	10.9	1	118.3	746	10
AgVenture	AV44B2E ↗	E3	4.4	M	77.3	11.0	6	120.0	745	11
Xitavo	XO 3555E ↗	E3	3.5	M	77.0	10.9	1	116.3	742	12
Burrus	4134E ↗	E3	4.1	M	76.9	10.9	1	120.3	741	13
AgVenture	AV38A1E ↗	E3	3.8	M	76.8	10.9	1	118.0	740	14
Xitavo	XO 4255E ↗	E3	4.2	M	76.6	10.9	9	128.0	738	15
FS HiSOY	HS 36F40 ↗	RXF	3.6	M	76.6	11.1	5	122.0	738	16
Xitavo	XO 4056E ↗	E3	4.0	M	76.2	10.7	1	125.7	735	17
NuTech	43N06E ↗	E3	4.3	M	76.2	11.0	9	133.7	735	18
DONMARIO	DM40F45S ↗	RXF,ST	4.0	M	76.1	11.1	1	110.7	734	19
Xitavo	XO 3855E ↗	E3	3.8	M	76.1	11.2	2	114.0	734	20
Apex	AE3550S ↗	E3,ST	3.5	M	75.9	11.0	1	114.3	732	21
NuTech	38N05E ↗	E3	3.8	M	75.8	10.9	1	118.0	731	22
NuTech	36N06E ↗	E3	3.6	M	75.8	11.0	1	120.0	731	23
FS HiSOY	HS 41E40 ↗	E3,ST	4.1	M	75.8	11.2	1	122.3	731	24
NuTech	45N12E ↗	E3	4.5	M	75.6	10.9	7	127.7	729	25
Agrisoy	41A04E ↗	E3	4.1	M	75.4	11.1	1	122.0	727	26
Hoegemeyer	4036 E ↗	E3	4.0	M	75.3	11.1	1	118.0	726	27
Pioneer	P37Z06E GC ↗	E3	3.7	R	75.3	10.9	1	126.0	726	28
Apex	AE4260 ↗	E3	4.2	M	74.4	11.0	2	118.3	717	29
FS HiSOY	HS 37E40 ↗	E3	3.7	M	74.4	11.3	1	108.3	717	30

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Averages = **73.8** **11.0** **2** **119.1** **711**

LSD (0.10) = 3.5 ns 2

LSD (0.25) = 1.8 ns 1

C.V. = 4.5

Historic yield: 64.99 bu/a, 3 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.00 Prices: GMO = \$9.64

Report Date: 11/02/2025

Additional reports available at www.firstseedtests.com

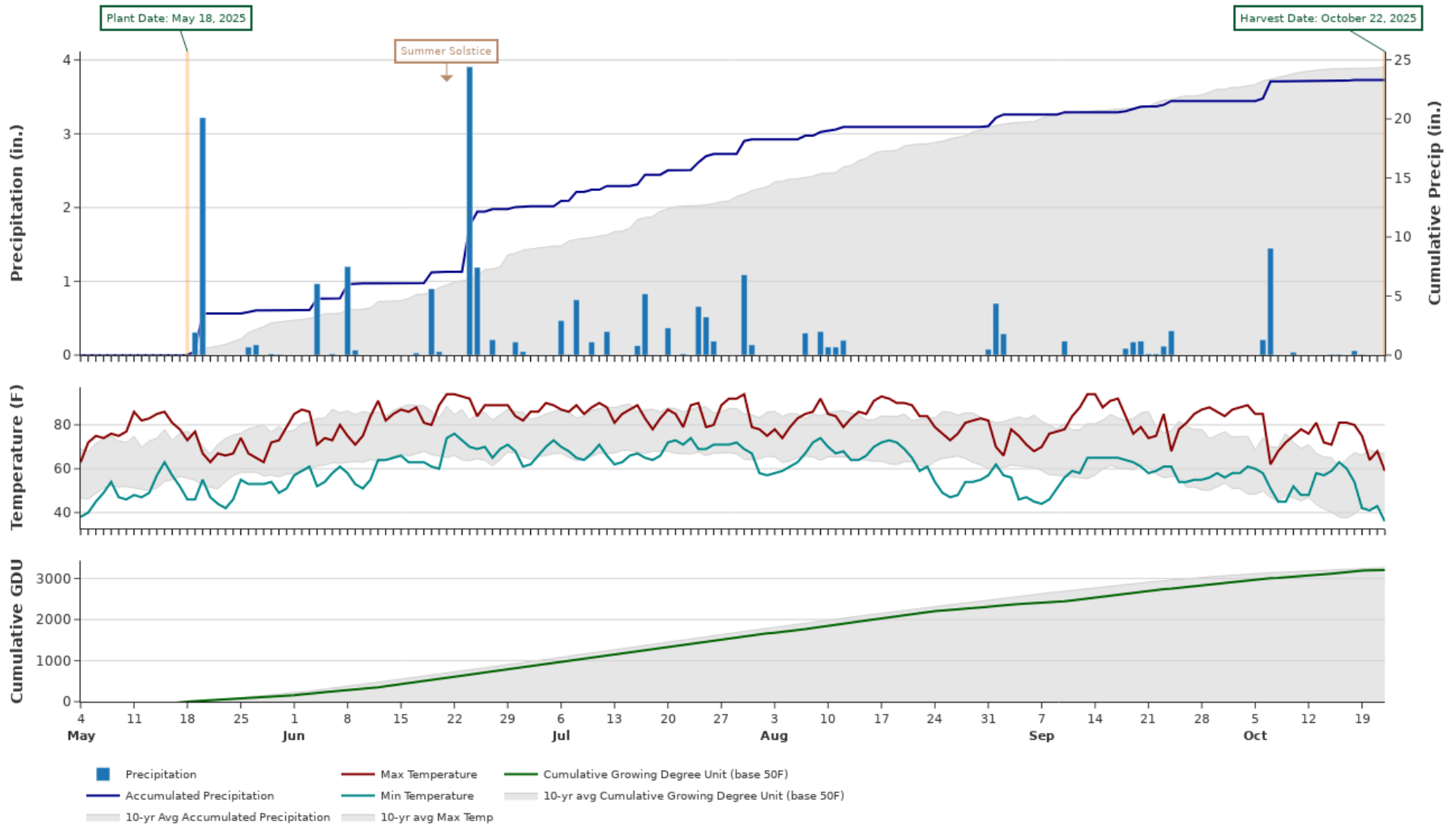
† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different. *Earthoptics used for soil conditions and soil-borne disease & pest risks. ↗ Links to full product yield results at www.firstseedtests.com.

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2025 Soybeans - Missouri North [MONO]

Weather Conditions Summary at MARYVILLE, MO

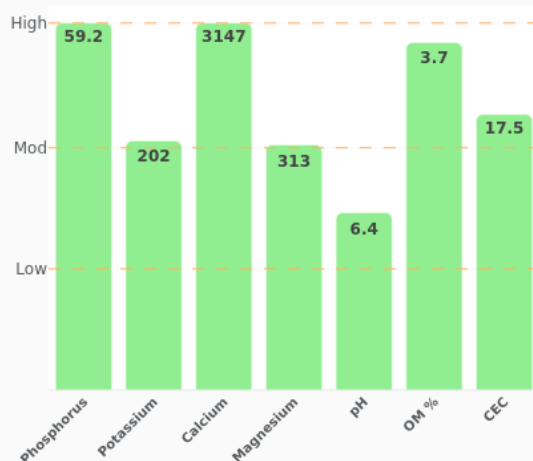
Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	3.8 5.2 (-1.4)	8.7 5.8 (+3.0)	5.7 5.3 (+0.4)	1.1 5.4 (-4.3)	2.1 3.2 (-1.0)	1.8 1.9 (-0.1)	23.3 26.8 (-3.5)
GDU Avg (Diff)	362 390 (-28)	684 727 (-43)	809 806 (+2)	688 746 (-58)	552 571 (-19)	336 212 (+123)	3431 3455 (-24)



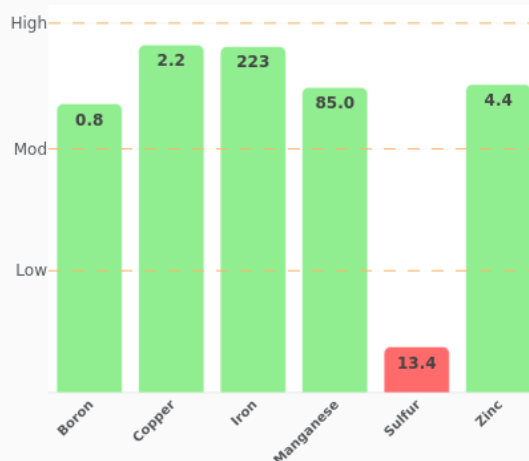
* First monthly total starts on the date 14 days prior to planting and final monthly total ends on the harvest date.

Note: Weather information from PRISM Climate Group. Data may be revised by the provider after retrieval. FIRST will not revise or update reports to reflect any weather data changes. For information purposes only.

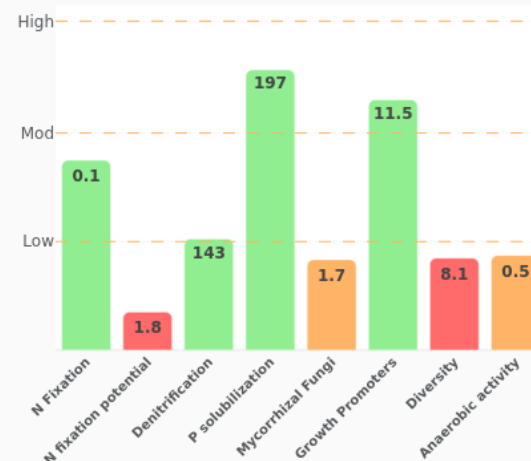
Macronutrients



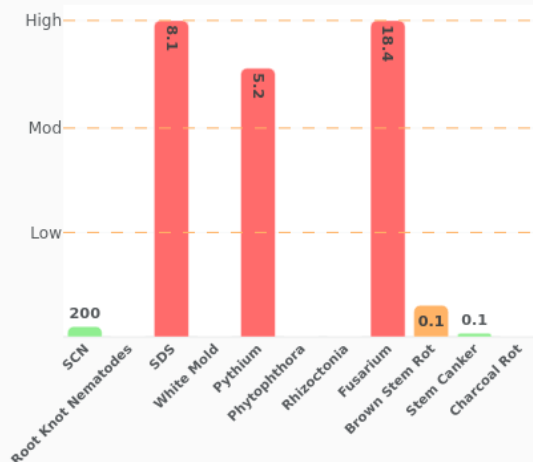
Micronutrients



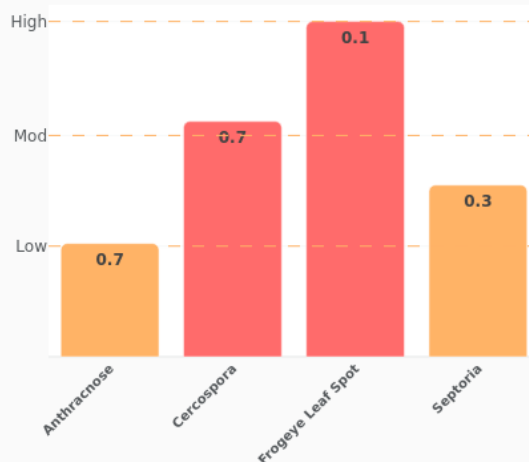
Biofertility Analytics



Below Ground Pest & Disease - Soybeans



Above Ground Pest & Disease - Soybeans



More Information

You can find more information about the EarthOptics and soil analytics reported at the following links:

- [Reported Analytics Descriptions](#)
- [Soil Nutrients & Fertility](#)
- [Analytics & Insights](#)
- [EarthOptics](#)

2025 Soybeans - Missouri North [MONO]

All-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Agrisoy	35A03E	E3	M	3.5	NA
Agrisoy	38A04E	E3	M	3.8	NA
Agrisoy	39A05E	E3,ST	NA	3.9	NA
Agrisoy	40A05E	E3,ST	NA	3.9	NA
Agrisoy	41A04E	E3	M	4.1	NA
Agrisoy	43A04E	E3	M	4.3	NA
AgVenture	AV34B2E	E3	PK	3.4	CMB-APX,IL
AgVenture	AV36B2E	E3	M	3.6	CMB-APX,SA
AgVenture	AV38A1E	E3	M	3.8	CMB-APX,IL
AgVenture	AV38B2E	E3	M	3.8	CMB-APX,IL
AgVenture	AV39B2E	E3	PK	3.9	CMB-APX,IL
AgVenture	AV40C3E	E3	M	4.0	Lum,Lu,Lud,IL
AgVenture	AV43B2BE	E3,ST	M	4.3	Treated
AgVenture	AV44B2E	E3	M	4.4	CMB-APX,IL
Apex	AE3550S	E3,ST	M	3.5	CMB-APX,SA
Apex	AE3660	E3	PK	3.6	PU,Sa
Apex	AE3950S	E3,ST	M	3.9	EcQ,NF,NH,SA
Apex	AE4150S	E3,ST	M	4.1	EcTC,SA
Apex	AE4260	E3	M	4.2	PU,Sa
Burrus	3472E	E3	M	3.4	BPS-SDS
Burrus	3578E	E3	M	3.5	BPS-SDS
Burrus	4134E	E3	M	4.1	BPS-SDS
Burrus	4353E	E3	M	4.3	BPS-SDS
DONMARIO	DM33E55	E3	M	3.3	CMB-APX,SA
DONMARIO	DM36E94	E3	M	3.6	CMB-APX,SA
DONMARIO	DM38E54	E3	M	3.8	CMB-APX,SA
DONMARIO	DM40F45S	RXF,ST	M	4.0	CMB-APX,SA
FS HiSOY	HS 33E50	E3	M	3.3	ACi,SA
FS HiSOY	HS 34F30	RXF	M	3.4	ACi,SA
FS HiSOY	HS 35E50	E3	M	3.5	ACi,SA
FS HiSOY	HS 36F40	RXF	M	3.6	ACi,SA
FS HiSOY	HS 37E40	E3	M	3.7	ACi,SA
FS HiSOY	HS 39E40	E3,ST	M	3.9	ACi,SA
FS HiSOY	HS 39F50	RXF	M	3.9	ACi,SA
FS HiSOY	HS 41E40	E3,ST	M	4.1	ACi,SA
Hoegemeyer	3326 E	E3	PK	3.3	Lum, LumT, IL

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Hoegemeyer	3926 E	E3	PK	3.9	Lum, LumT, IL
Hoegemeyer	4036 E	E3	M	4.0	Lum, LumT, IL
NuTech	35N05E	E3	PK	3.5	Lum, LumT, IL
NuTech	36N06E	E3	M	3.6	Lum, LumT, IL
NuTech	38N05E	E3	M	3.8	Lum, LumT, IL
NuTech	39N08E	E3	PK	3.9	Lum, LumT, IL
NuTech	41N04E	E3	M	4.1	Lum, LumT, IL
NuTech	43N06E	E3	M	4.3	Lum, LumT, IL
NuTech	43N11BE	E3,ST	M	4.3	Lum, LumT, IL
NuTech	45N12E	E3	M	4.5	Lum, LumT, IL
Pioneer	P37Z06E	E3	R	3.7	NA
Pioneer	P40Z57E	E3	R	4.0	NA
Xitavo	XO 3555E	E3	M	3.5	PV,IL,OB,Rey
Xitavo	XO 3705E	E3	M	3.7	PV,IL,OB,Rey
Xitavo	XO 3855E	E3	M	3.8	PV,IL,OB,Rey
Xitavo	XO 4056E	E3	M	4.0	PV,IL,OB,Rey
Xitavo	XO 4255E	E3	M	4.2	PV,IL,OB,Rey
Xitavo	XO 4405E	E3	M	4.4	PV,IL,OB,Rey

* FIRST does not inspect products for refuge blend. N* indicates the product was entered without a refuge component by the sponsoring seed company. Prior year entries may contain refuge blend.

Footnotes and Abbreviations Descriptions

Brand Footnotes

CK	Identifies a check product included in early- and full-season tests.
GC	Grower Comparison product included by FIRST when space permits.

Soybean Cyst Nematode (SCN) Resistance Source or Rating

Note: Source of SCN resistance used when available, otherwise older susceptibility ratings are reported.

M	PI 88788 (MR)
PK	Peking (R)
H	Hartwig (R)
B	Blend (PK + M)
MR	moderate resistance
R	resistant
S	susceptible
NA	info unavailable

Soybeans Technologies

E3	Enlist E3®
RXF	XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

ACi,SA	Acceleron® Standard Insecticide-Fungicide, Saltro®
BPS-SDS	Burrus PowerShield® SDS
CMB-APX,IL	CruiserMaxx® APX with ILEVO®
CMB-APX,SA	CruiserMaxx® APX with Saltro®
EcQ,NF,NH,SA	Eclipse US Total Quad-R, N-Force, N-Hibit, Saltro
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro®
Lum,Lu,Lud,IL	LumiGEN™, Luminesa, Lumiderm, ILeVO
Lum, LumT, IL	LumiGEN™, LumiTreo, ILEVO
PU,Sa	Protect Ultra, Saltro
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
Treated	Treated, unspecified

* Seed treatments may include unspecified plant health promoting components.