first farmers' independent research of seed technologies

Test by: Bottomline Seed Solutions, LLC Effingham, IL

2026 Soybeans Top 30 Harvest Report

Missouri East [MOEA] SHELBYVILLE, MO

Mike Novinger, Shelby County, MO

All-Season Test	Maturity Group **3.5** - **4.8** S2026MOEA03
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (**3**) Replications
PREV. CROP/HERB:	Soybeans / Roundup Powermax, Enlist
SOIL DESCRIPTION:	Putnum silt loam, poorly drained, non-irrigated
SOIL CONDITION:	6.77 pH, 3.4% OM, 12.27 CEC, high P, high K, low S, mod. B, high Zn
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
CROP PROTECTION:	Roundup Powermax (H)
Applied N-P-K (units):	9-45-70
SEEDED - RATE - ROW:	May 12 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 26 113.7 /A
PEST & DISEASE RISK:	SDS, Fusarium, Stem Canker, Anthracnose of Soybean*

TEST COMMENTS:

This location was planted in mid-May. Heavy spring rain had a negative effect on emergence. Most varieties were vegetatively normal or slightly above. There were pockets of severe lodging that made harvesting a nightmare. Unfortunately, late-season waterhemp invaded this test and had a very detrimental effect on the overall yields.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income $/Acre	Gross Income Rank
Great Heart	GT-3771E ⇗	E3	3.7	M	**45.8**	13.0	1	91.0	550	1
Xitavo	XO 3555E ⇗	E3	3.5	M	**45.2**	11.8	1	134.3	542	2
AgVenture	AV38B2E ⇗	E3	3.8	M	**45.2**	12.3	1	120.7	542	3
AgVenture	AV44B2E ⇗	E3	4.4	M	**45.0**	13.2	36	130.0	540	4
Great Heart	GT-4511E ⇗	E3	4.5	M	**44.8**	13.2	1	104.0	538	5
Burrus	3773E ⇗	E3	3.7	M	**44.6**	11.9	19	132.0	535	6
DONMARIO	DM37E66 ⇗	E3	3.7	PK	44.0	12.5	1	116.5	528	7
Hoegemeyer	4385E ⇗	E3	4.3	M	43.9	12.6	1	124.0	527	8
Asgrow	AG42XF6 GC ⇗	RXF	4.2	NA	43.6	12.8	2	94.7	523	9
FS HiSOY	HS 36F40 ⇗	RXF	3.6	M	43.1	11.7	1	107.0	517	10
Hoegemeyer	4517BE ⇗	E3,ST	4.5	M	42.7	12.5	1	98.0	512	11
Hoegemeyer	3605E ⇗	E3	3.6	M	42.1	12.3	1	134.7	505	12
Hoegemeyer	3825E ⇗	E3	3.8	M	42.0	12.7	1	117.7	504	13
AgVenture	AV43B2BE ⇗	E3,ST	4.3	M	41.8	12.5	1	110.3	502	14
FS HiSOY	HS 37E40 ⇗	E3	3.7	M	41.7	12.6	1	94.7	500	15
Hoegemeyer	3326E ⇗	E3	3.3	PK	41.0	12.6	1	122.3	492	16
Great Heart	GT-3895ES ⇗	E3,ST	3.8	M	40.6	13.0	1	125.3	487	17
AgVenture	AV46C3E ⇗	E3	4.6	M	39.9	12.7	34	100.7	479	18
FS HiSOY	HS 36E60 ⇗	E3,ST	3.6	M	39.2	11.8	22	117.7	470	19
AgVenture	AV36B2E ⇗	E3	3.6	M	39.2	12.6	1	116.0	470	20
Great Heart	GT-3972E ⇗	E3	3.9	M	39.2	12.2	1	130.0	469	21
AgVenture	AV40C3E ⇗	E3	4.0	M	37.5	12.7	1	107.0	450	22
FS HiSOY	HS 35E50 ⇗	E3	3.5	M	37.3	11.3	1	85.3	448	23
AgVenture	AV37D4BE ⇗	E3,ST	3.7	M	37.3	12.4	1	111.7	448	24
Hoegemeyer	4355BE ⇗	E3,ST	4.3	M	36.9	12.3	1	98.0	443	25
FS HiSOY	HS 38E50 ⇗	E3	3.8	M	36.5	12.8	1	113.0	438	26
Power Plus	3912 ⇗	E3	3.9	M	36.5	12.5	1	112.0	438	27
Hoegemeyer	4596E ⇗	E3	4.5	M	36.4	12.3	13	134.7	437	28
Asgrow	AG39XF3 GC ⇗	RXF	3.9	R	36.4	12.4	1	97.5	437	29
Great Heart	GT-4321ES ⇗	E3,ST	4.3	M	36.3	13.0	1	100.7	436	30
				Averages =	**40.0**	**12.5**	**6**	**113.7**	**477**	
				LSD (0.10) =	4.2	ns	ns			
				LSD (0.25) =	2.2	ns	ns			
				C.V. =	10.0					

Klint Tucker

klint.tucker@firstseedtests.com, (309) 712-1406

Historic yield: new site

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.0 Drying = $0.00 Prices: GMO = $12.00

Report Date: 10/26/2026

† 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.

Additional reports available at **www.firstseedtests.com**

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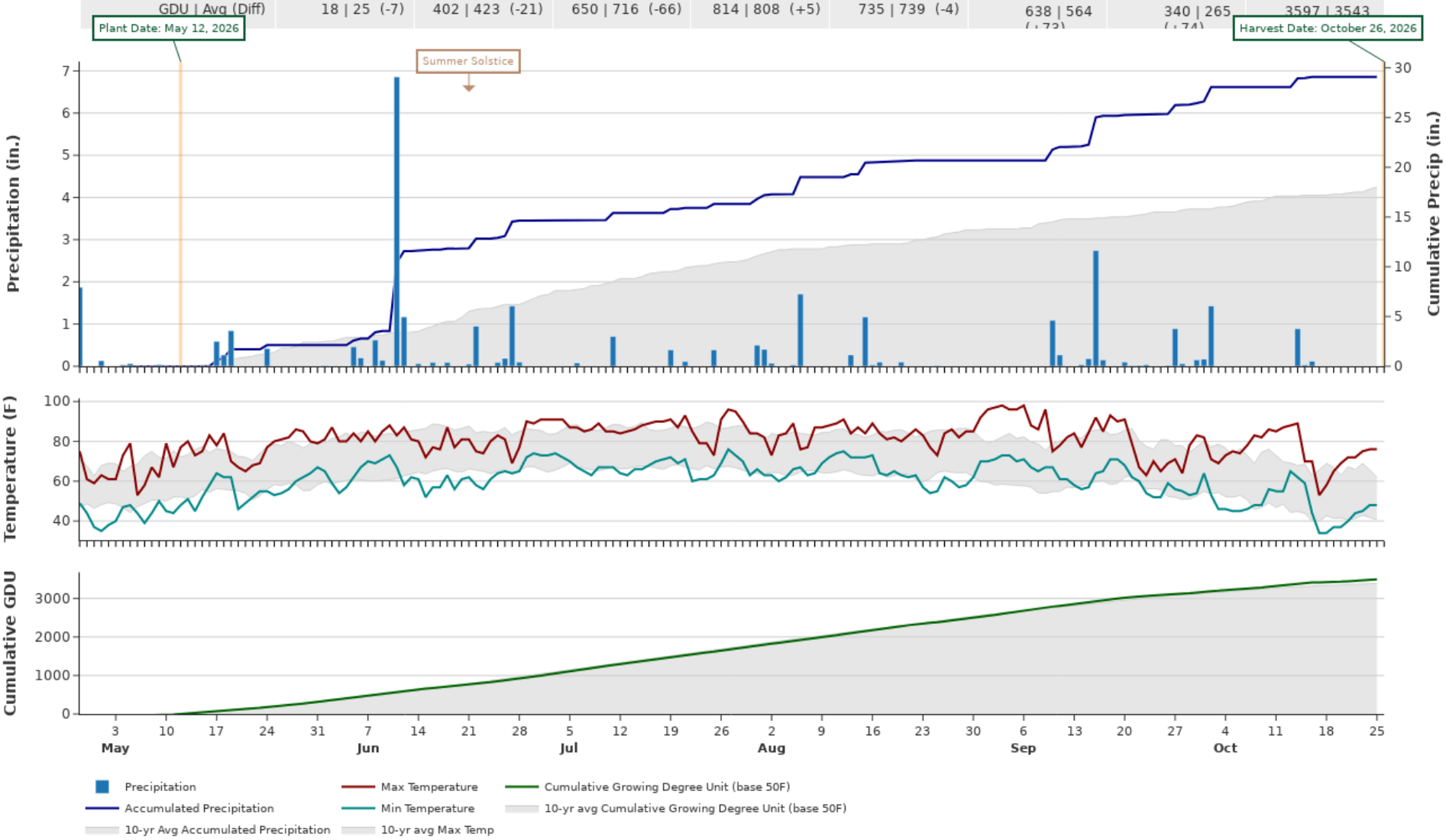
2026 Soybeans - Missouri East [MOEA]

Weather Conditions Summary at SHELBYVILLE, MO

Weather Data Retrieved: 10/26/2026

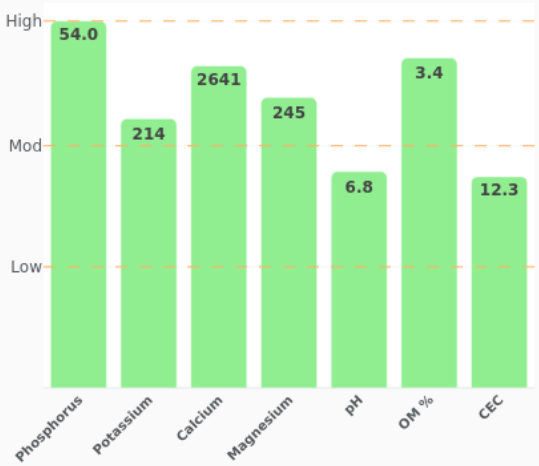
Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) | (Diff)	1.9 | 0.8 (+1.1)	2.4 | 4.0 (-1.6)	12.5 | 4.4 (+8.1)	2.2 | 4.3 (-2.1)	3.9 | 2.6 (+1.3)	5.8 | 2.1 (+3.7)	2.6 | 2.2 (+0.4)	31.2 | 20.4 (+10.8)
GDU | Avg (Diff)	18 | 25 (-7)	402 | 423 (-21)	650 | 716 (-66)	814 | 808 (+5)	735 | 739 (-4)	638 | 564 (	340 | 265 (	3597 | 3543



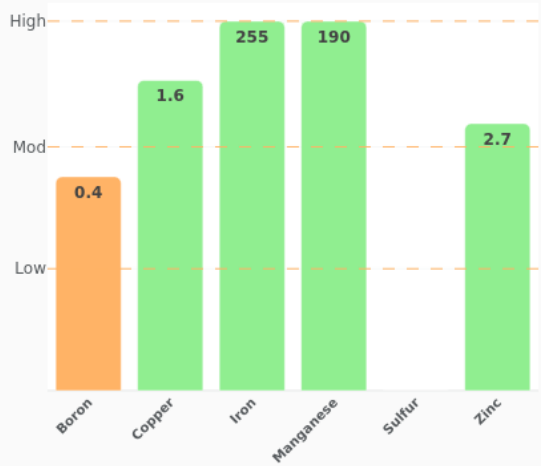
* First monthly total starts on the date 14 days prior to planting and final monthly total ends on the harvest date.

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.

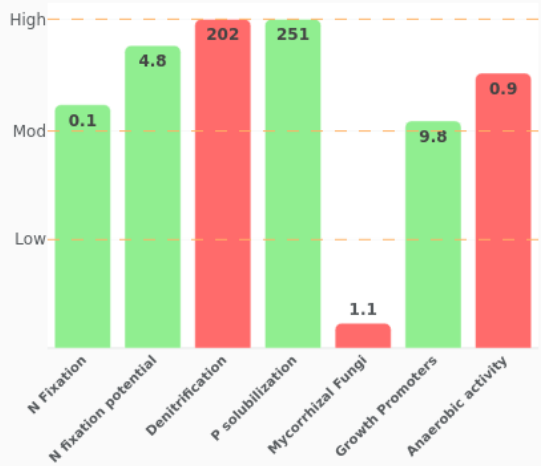
Macronutrients



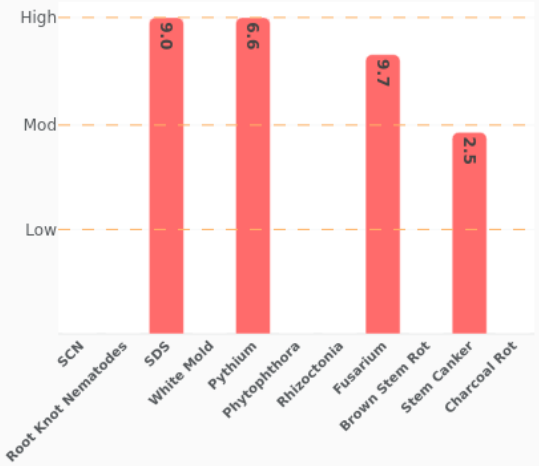
Micronutrients



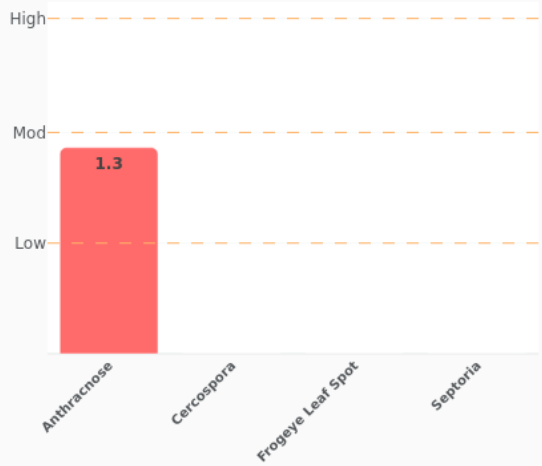
Biofertility Analytics



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

2026 Soybeans - Missouri East [MOEA]

All-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
AgVenture	AV36B2E	E3	M	3.6	CMB-APX,VI
AgVenture	AV37D4BE	E3,ST	M	3.7	Lum,Lu,lud,il
AgVenture	AV38B2E	E3	M	3.8	CMB-APX,VI
AgVenture	AV39B2E	E3	PK	3.9	CMB-APX,SA
AgVenture	AV40C3E	E3	M	4.0	CMB-APX,SA
AgVenture	AV43B2BE	E3,ST	M	4.3	CMB-APX
AgVenture	AV44B2E	E3	M	4.4	CMB-APX,VI
AgVenture	AV46C3E	E3	M	4.6	CMB-APX,VI
Asgrow	AG39XF3	RXF	R	3.9	Untreated
Asgrow	AG42XF6	RXF	NA	4.2	Untreated
Burrus	3773E	E3	M	3.7	BPS-SDS
DONMARIO	DM37E66	E3	PK	3.7	CMB-APX
FS HiSOY	HS 35E50	E3	M	3.5	ACi,SA
FS HiSOY	HS 36E60	E3,ST	M	3.6	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 38E50	E3	M	3.8	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
Great Heart	GT-3771E	E3	M	3.7	Gr+
Great Heart	GT-3895ES	E3,ST	M	3.8	Gr+
Great Heart	GT-3972E	E3	M	3.9	Gr+
Great Heart	GT-4321ES	E3,ST	M	4.3	Gr+
Great Heart	GT-4511E	E3	M	4.5	Gr+
Hoegemeyer	3326E	E3	PK	3.3	Lum,Lu,lud,il
Hoegemeyer	3605E	E3	M	3.6	Lum,Lu,lud,il
Hoegemeyer	3825E	E3	M	3.8	Lum,Lu,lud,il
Hoegemeyer	4355BE	E3,ST	M	4.3	Lum,Lu,lud,il
Hoegemeyer	4385E	E3	M	4.3	Lum,Lu,lud,il
Hoegemeyer	4517BE	E3,ST	M	4.5	Lum,Lu,lud,il
Hoegemeyer	4596E	E3	M	4.5	Lum,Lu,lud,il
Pioneer	P38Z63E	E3	R	3.8	Lum,Lu,lud,il
Pioneer	P41Z16E	E3	R	4.1	Lum,Lu,lud,il
Power Plus	3912	E3	M	3.9	BPS-SDS
Xitavo	XO 3555E	E3	M	3.5	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	CruiserMaxx® Beans APX
CMB-APX,SA	CruiserMaxx® APX with Saltro®
CMB-APX,VI	CruiserMaxx® Beans APX, Victrato®
Gr+	Great Start Max Plus (Great Heart Seed)
Lum,Lu,lud,il	LumiGen,LumiTreo,Lumiderm,ILVEO HL
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.