

Test by: Northland F.I.R.S.T., LLC Moorhead, MN

2021 Soybeans Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]
KINDRED, ND
Todd Toppen, Cass County, ND

Early-Season Test	Maturity Group 0.6 - 0.9 S2021RRSO01a
Top 30 of 44	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Wheat / Hat Trick, Provaro
SOIL DESCRIPTION:	Fargo silty clay, poorly drained, non-irrigated
SOIL CONDITION:	no soil information available
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Fierce Ez, Mad Dog, Medal Ec, Gunsmoke
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 14 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 19 116.5 /A

TEST COMMENTS:

This site was dry before and after planting, which delayed emergence for most of the plant population. There was a light frost the last week of May that reduced stands for the plants that had emerged earlier than the rest. On our first site visit, we thought we had a lost plot due to uneven emergence from the dry conditions/frost. However, after a few rains in early June that helped germination, this site bounced back and looked great the rest of the summer. While harvesting the plot, we noticed green stems on many of the varieties throughout the early and full-season tests.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Xitavo	XO 1041E ↗	E3	1.0	R	63.6	13.3	0	118.0	765	1
Latham	L 1094 E3 ↗	E3	1.0	R	60.9	13.5	0	116.0	732	3
Innotech	IS1022E3 ↗	E3	1.0	R	60.7	13.6	0	117.7	729	4
Dairyland	DSR-1010E ↗	E3	1.0	R	60.6	13.5	0	118.0	728	5
Thunder	TX8206N ↗	RXF	0.6	R	60.3	13.7	0	118.0	724	6
Thunder	SB8010N ↗	RRX	1.0	R	59.5	13.6	0	117.0	715	7
Thunder	TX8207N ↗	RXF	0.7	R	59.5	14.0	0	112.0	714	8
Golden Harvest	GH0842E3 ↗	E3	0.8	R	59.3	13.6	0	115.7	712	9
Genesis	G0750E ↗	E3	0.7	R	59.1	14.0	0	115.3	709	10
Asgrow	AG09XF0 § ↗	RXF	0.9	R	59.0	13.4	0	116.3	709	11
Xitavo	XO 0731E ↗	E3	0.7	R	58.8	13.5	0	118.7	707	12
Stine	09EA02 § ↗	E3	0.9	R	58.8	13.6	0	114.7	706	13
Innotech	IS0864E3 ↗	E3	0.8	R	58.7	13.8	0	116.3	705	14
Apex	AE0720 ↗	E3	0.7	R	58.7	13.5	0	116.0	705	15
Latham	L 0995 E3 ↗	E3	0.9	R	58.2	13.6	0	116.3	699	16
Genesis	G0760E ↗	E3	0.7	R	57.8	13.4	0	114.3	695	17
Asgrow	AG10XF1 § ↗	RXF	1.0	R	56.8	13.2	0	118.7	683	18
Thunder	TE7207 ↗	E3	0.7	S	56.7	13.3	0	116.3	682	19
Channel	0622RFX § ↗	RXF	0.6	NA	56.7	13.8	0	118.3	681	20
Thunder	SB8807N ↗	RRX	0.7	R	56.4	13.8	0	116.0	677	21
Brevant	B061EE GC ↗	E3	0.6	MR	56.3	14.0	0	114.3	676	22
Brevant	B091EE GC ↗	E3	0.9	S	56.1	13.8	0	115.3	674	23
Credenz	CZ 0661GTLL ↗	LLGT27	0.6	R	56.0	14.1	0	115.7	672	24
NK Brand	NK08-B7XF ↗	RXF	0.8	R	55.8	13.5	0	117.5	671	25
Hefty	H06XF2 ↗	RXF	0.6	NA	55.4	13.8	0	114.7	665	26
Zinesto	Z0602E ↗	E3	0.6	NA	55.3	13.6	0	119.3	664	27
Loyal	L0640E ↗	E3	0.6	R	55.2	13.7	0	117.0	663	28
Thunder	TX8109N ↗	RXF	0.9	R	54.9	13.7	0	117.0	660	29
Hefty	H08XF2 ↗	RXF	0.8	NA	54.8	13.7	0	115.3	658	30
Innotech	IS0678E3 ↗	E3	0.6	MR	54.7	13.7	0	116.7	657	31
Channel	1022RFX CK	RXF	1.0	NA	61.0	13.4	0	118.7	733	2
					Averages =	56.2	13.6		116.5	676
					LSD (0.10) =	4.5	0.2	ns		
					LSD (0.25) =	2.4	0.1	ns		
Luke Brendemuhl					C.V. =	7.6				
luke.brendemuhl@firstseedtests.com, (218) 790-4497					Historic yield: new site					

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$12.03

Report Date: 10/20/2021

† 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. ↗ New! Links to full product yield results at www.firstseedtests.com

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Todd Toppen, Cass County, ND

Full-Season Test Maturity Group 1.0 - 1.4
S2021RRSO01b

Top 30 of 43 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Wheat / Hat Trick, Provaro

SOIL DESCRIPTION: Fargo silty clay, poorly drained,
non-irrigated

SOIL CONDITION:

TILLAGE/CULTIVATION: Conventional W/ Fall Till

PEST MANAGEMENT: Fierce Ez, Mad Dog, Medal Ec,
Gunsmoke

Applied N-P-K (units): 0-0-0

SEEDED - RATE - ROW: May 14 140.0 /A 30" spacing

HARVESTED - STAND: Oct 19 116.6 /A

TEST COMMENTS:

This site was dry before and after planting, which delayed emergence for most of the plant population. There was a light frost the last week of May that reduced stands for the plants that had emerged earlier than the rest. On our first site visit, we thought we had a lost plot due to uneven emergence from the dry conditions/frost. However, after a few rains in early June that helped germination, this site bounced back and looked great the rest of the summer. While harvesting the plot, we noticed green stems on many of the varieties throughout the early and full-season tests.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Stine	14EE01 § ↗	E3	1.4	MR	69.5	13.5	0	117.7	835	1	
Golden Harvest	GH1472E3 § ↗	E3	1.4	R	68.7	13.3	0	115.0	826	2	
Zinesto	Z1101E ↗	E3	1.1	R	67.0	13.3	0	114.7	806	3	
Loyal	L1440E ↗	E3	1.4	R	65.8	13.3	0	118.0	791	4	
Brevant	B141EE § ↗	E3	1.4	MR	65.5	13.4	0	118.0	787	5	
Dairyland	DSR-1450E ↗	E3	1.4	R	65.3	13.9	0	115.0	784	6	
Apex	AE1420 ↗	E3	1.4	R	64.6	13.3	0	116.3	777	7	
Apex	AE1410 ↗	E3	1.4	R	64.5	13.3	0	117.0	775	8	
Dairyland	DSR-1290E ↗	E3	1.2	R	63.8	13.3	0	118.0	767	9	
Latham	L 1383 XF ↗	RXF	1.3	R	63.8	13.4	0	116.7	767	10	
Zinesto	Z1411E ↗	E3	1.4	R	63.3	13.5	0	115.3	761	11	
Hefty	H14XF1 ↗	RXF	1.4	NA	62.8	13.4	0	120.0	755	12	
Genesis	G1460E ↗	E3	1.4	R	62.7	13.3	0	115.7	754	13	
Thunder	TX8211N ↗	RXF	1.1	R	62.7	13.5	0	114.0	753	14	
Credenz	CZ 1331GTLL ↗	LLGT27	1.3	R	62.4	13.4	0	117.7	750	15	
Xitavo	XO 1451E ↗	E3	1.4	R	62.3	13.2	0	117.7	749	16	
Xitavo	XO 1372E ↗	E3	1.3	R	62.1	13.3	0	114.7	747	17	
Asgrow	AG12XF1 § ↗	RXF	1.2	S	62.0	13.3	0	118.0	745	18	
Latham	L 1482 R2X ↗	RRX	1.4	R	61.9	13.2	0	115.7	744	19	
Credenz	CZ 1171GTLL ↗	LLGT27	1.1	MR	61.8	13.1	0	117.0	743	20	
Thunder	TE7011N ↗	E3	1.1	R	61.7	13.4	0	118.0	742	21	
NK Brand	NK14-C7XF ↗	RXF	1.4	R	61.6	13.1	0	117.3	741	22	
Loyal	L1230ES ↗	E3,ST	1.2	R	61.5	13.2	0	116.3	739	23	
Zinesto	Z1302E ↗	E3	1.3	NA	61.3	13.3	0	114.7	737	24	
Hefty	H13XF1 ↗	RXF	1.3	NA	60.9	13.4	0	117.0	732	26	
Latham	L 1219 E3 ↗	E3	1.2	R	60.3	13.3	0	117.3	725	27	
Hefty	H12XF2 ↗	RXF	1.2	NA	60.3	13.4	0	115.3	725	28	
Dairyland	DSR-1318E ↗	E3	1.3	R	60.2	13.3	0	118.0	724	29	
Innotech	IS1283E3 ↗	E3	1.2	R	60.2	13.6	0	114.7	723	30	
Zinesto	Z1202E ↗	E3	1.2	NA	60.0	13.4	0	116.7	721	31	
Channel	1022RXF CK	RXF	1.0	NA	61.3	13.4	0	118.0	737	25	
					Averages =	61.5	13.4	0	116.6	740	
					LSD (0.10) =	3.8	ns	ns			
					LSD (0.25) =	2.0	ns	ns			
Luke Brendemuhl					C.V. =	5.9					
luke.brendemuhl@firstseedtests.com, (218) 790-4497										Historic yield: new site	

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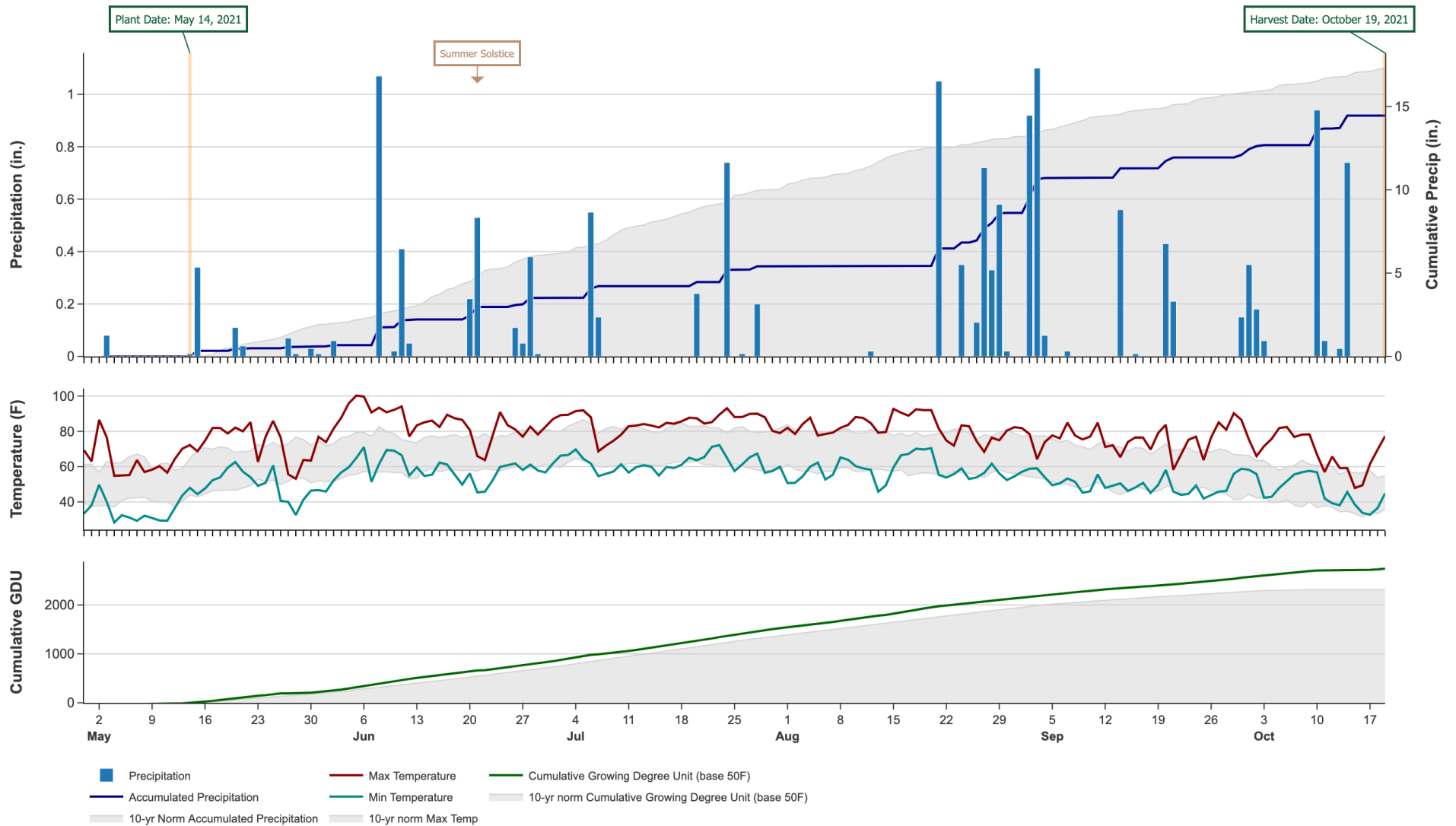
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2021 Soybeans - Red River South North Dakota & Minnesota [RRSO]

Weather Conditions Summary at KINDRED, ND

Weather Data Retrieved: 10/20/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.0 0.1 (-0.1)	0.7 3.0 (-2.3)	2.9 4.2 (-1.3)	1.9 3.9 (-2.0)	3.2 3.2 (0.0)	3.5 2.6 (+0.9)	2.4 1.5 (+0.9)	14.5 18.5 (-3.9)
GDU Normal (Diff)	10 5 (+4)	286 249 (+36)	606 519 (+86)	701 661 (+39)	611 567 (+43)	420 332 (+87)	184 39 (+144)	2818 2374 (+443)



* 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.

2021 Soybeans - Red River South North Dakota & Minnesota [RRSO]

Early-Season Test Products (44 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE0611	E3	R	0.6	CMBV,SA
Apex	AE0720	E3	R	0.7	CMBV,SA
Asgrow	AG09XF0 §	RXF	R	0.9	ACi,IL
Asgrow	AG10XF1 §	RXF	R	1.0	ACi,IL
Brevant	B061EE GC	E3	MR	0.6	Untreated
Brevant	B091EE GC	E3	S	0.9	Untreated
Channel	0622RFX §	RXF	NA	0.6	ACi,IL
Channel	1022RFX CK	RXF	NA	1.0	ACi,IL
Credenz	CZ 0661GTLL	LLGT27	R	0.6	PV,IL,OB
Dairyland	DSR-0920E	E3	R	0.9	Lum,IL
Dairyland	DSR-1010E	E3	R	1.0	Lum,IL
Dyna-Gro	S09EN41	E3	R	0.9	EQV,SA
Genesis	G0651E	E3	R	0.6	CMBV,SA
Genesis	G0750E	E3	R	0.7	CMBV,SA
Genesis	G0760E	E3	R	0.7	CMBV,SA
Golden Harvest	GH0842E3	E3	R	0.8	CMBV,SA
Golden Harvest	GH1032XF	RXF	R	1.0	CMBV,SA
Hefty	H06XF2	RXF	NA	0.6	DST4,SA
Hefty	H07XF1	RXF	NA	0.7	DST4,SA
Hefty	H08XF2	RXF	NA	0.8	DST4,SA
Hefty	H10XF1	RXF	NA	1.0	DST4,SA
Innotech	IS0678E3	E3	MR	0.6	Fortify
Innotech	IS0864E3	E3	R	0.8	Fortify
Innotech	IS1022E3	E3	R	1.0	Fortify
Latham	L 0984 XF	RXF	R	0.9	SS+,SA
Latham	L 0995 E3	E3	R	0.9	SS+,SA
Latham	L 1094 E3	E3	R	1.0	SS+,SA
Loyal	L0640E	E3	R	0.6	CMBV,SA
Loyal	L0740E	E3	R	0.7	CMBV,SA
NK Brand	NK08-B7XF	RXF	R	0.8	CMBV,SA
NK Brand	NK08-V9E3 §	E3	R	0.8	CMBV,SA
NK Brand	NK10-W8XF §	RXF	R	1.0	CMBV,SA
Stine	09EA02 §	E3	R	0.9	SFI
Thunder	SB8010N	RRX	R	1.0	AM
Thunder	SB8807N	RRX	R	0.7	AM
Thunder	TE7207	E3	S	0.7	AM
Thunder	TX8109N	RXF	R	0.9	AM
Thunder	TX8206N	RXF	R	0.6	AM
Thunder	TX8207N	RXF	R	0.7	AM
Xitavo	XO 0602E	E3	R	0.6	PV,IL,OB
Xitavo	XO 0731E	E3	R	0.7	PV,IL,OB
Xitavo	XO 1041E	E3	R	1.0	PV,IL,OB

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Zinesto	Z0602E	E3	NA	0.6	DST4,SA
Zinesto	Z0702E	E3	NA	0.7	DST4,SA

2021 Soybeans - Red River South North Dakota & Minnesota [RRSO]

Full-Season Test Products (43 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1220	E3	R	1.2	CMBV,SA
Apex	AE1410	E3	R	1.4	CMBV,SA
Apex	AE1420	E3	R	1.4	CMBV,SA
Asgrow	AG12XF1 §	RXF	S	1.2	ACi,IL
Brevant	B119EE §	E3	R	1.1	Untreated
Brevant	B141EE §	E3	MR	1.4	Untreated
Channel	1022RXF CK	RXF	NA	1.0	ACi,IL
Credenz	CZ 1171GTLL	LLGT27	MR	1.1	PV,IL,OB
Credenz	CZ 1331GTLL	LLGT27	R	1.3	PV,IL,OB
Dairyland	DSR-1290E	E3	R	1.2	Lum,IL
Dairyland	DSR-1318E	E3	R	1.3	Lum,IL
Dairyland	DSR-1450E	E3	R	1.4	Lum,IL
Dyna-Gro	S12EN72	E3	R	1.2	EQV,SA
Dyna-Gro	S12XF92	RXF	R	1.2	EQV,SA
Genesis	G1260E	E3	R	1.2	CMBV,SA
Genesis	G1460E	E3	R	1.4	CMBV,SA
Golden Harvest	GH1442XF	RXF	MR	1.4	CMBV,SA
Golden Harvest	GH1472E3 §	E3	R	1.4	CMBV,SA
Hefty	H11XF2	RXF	NA	1.1	DST4,SA
Hefty	H12XF2	RXF	NA	1.2	DST4,SA
Hefty	H13XF1	RXF	NA	1.3	DST4,SA
Hefty	H14XF1	RXF	NA	1.4	DST4,SA
Innotech	IS1283E3	E3	R	1.2	Fortify
Latham	L 1219 E3	E3	R	1.2	SS+,SA
Latham	L 1383 XF	RXF	R	1.3	SS+,SA
Latham	L 1392 E3	E3	R	1.3	SS+
Latham	L 1429 LLGT27	LLGT27	R	1.4	SS+,SA
Latham	L 1482 R2X	RRX	R	1.4	SS+,SA
Loyal	L1230ES	E3,ST	R	1.2	CMBV,SA
Loyal	L1240E	E3	R	1.2	CMBV,SA
Loyal	L1440E	E3	R	1.4	CMBV,SA
NK Brand	NK14-C7XF	RXF	R	1.4	CMBV,SA
Stine	12EE63 §	E3	R	1.2	SFI
Stine	14EE01 §	E3	MR	1.4	SFI
Thunder	TE7011N	E3	R	1.1	AM
Thunder	TX8211N	RXF	R	1.1	AM
Xitavo	XO 1212E	E3	R	1.2	PV,IL,OB
Xitavo	XO 1372E	E3	R	1.3	PV,IL,OB
Xitavo	XO 1451E	E3	R	1.4	PV,IL,OB
Zinesto	Z1101E	E3	R	1.1	DST4,SA
Zinesto	Z1202E	E3	NA	1.2	DST4,SA
Zinesto	Z1302E	E3	NA	1.3	DST4,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Zinesto	Z1411E	E3	R	1.4	DST4,SA

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.
§	United Soybean Board sponsored entry

Soybean Cyst Nematode (SCN) Resistance Rating

S	susceptible
MR	moderate resistance
R	resistant
n/a	info unavailable

Soybeans Technologies

E3	Enlist™ E3
LLGT27	LibertyLink® GT27®
RRX	Roundup Ready 2 Xtend®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
AM	ApronMaxx
CMBV,SA	Cruisermass® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
EQV,SA	Equity VIP, Saltro®
Fortify	Insecticide-Fungicide (Rob-See-Co)
Lum,IL	LumiGEN™ plus ILeVO
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SFI	Stine XP F&I
SS+	SoyShield Plus
SS+,SA	SoyShield Plus, Saltro®
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.