

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

2021 Soybeans Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]
MILNOR, ND
Steve Hogness, Sargent County, ND

Early-Season Test	0.6 - 0.9 Day CRM S2021RRSO03a
Top 30 of 44	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Accuron
SOIL DESCRIPTION:	Gardena-Glyndon silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 6.0 pH, 4.7% OM, 20.5 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Fierce Ez, Mad Dog, Medal Ec, Gunsmoke
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 16 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 131.7 /A

TEST COMMENTS:

The plot was planted into no-till corn residue, and it had adequate soil moisture at planting to allow for early and even emergence. This site was aided by the no-till conditions through the dry growing season, with there being good soil moisture under the corn residue at every site visit. At harvest, there was lodging among most of the varieties, which made some products difficult to harvest. Steve mentioned that he was seeing excellent test weights this year on soybeans, some at 59 pounds.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Stine	09EA02 § ↗	E3	0.9	R	78.9	10.3	5	131.0	963	1	
Dairyland	DSR-0920E ↗	E3	0.9	R	78.7	10.2	1	131.7	960	2	
Dairyland	DSR-1010E ↗	E3	1.0	R	78.3	10.2	8	132.7	955	3	
Xitavo	XO 0731E ↗	E3	0.7	R	77.7	10.1	4	131.3	948	4	
Innotech	IS0864E3 ↗	E3	0.8	R	77.5	10.3	10	132.3	946	5	
Thunder	TX8109N ↗	RXF	0.9	R	77.1	10.1	5	131.7	941	6	
Genesis	G0651E ↗	E3	0.6	R	76.1	9.8	6	132.7	928	7	
Dyna-Gro	S09EN41 ↗	E3	0.9	R	75.6	10.0	6	131.7	922	8	
Xitavo	XO 0602E ↗	E3	0.6	R	75.6	9.8	3	131.3	922	9	
NK Brand	NK08-V9E3 § ↗	E3	0.8	R	75.5	10.0	0	131.7	921	10	
Innotech	IS1022E3 ↗	E3	1.0	R	75.4	10.1	7	131.0	920	11	
Latham	L 1094 E3 ↗	E3	1.0	R	75.3	10.0	3	131.7	919	12	
Loyal	L0740E ↗	E3	0.7	R	75.2	9.8	1	130.0	917	13	
Innotech	IS0678E3 ↗	E3	0.6	MR	75.1	9.9	3	132.0	916	14	
Latham	L 0984 XF ↗	RXF	0.9	R	74.8	10.3	5	132.3	913	15	
Zinesto	Z0702E ↗	E3	0.7	NA	74.4	9.6	3	132.7	908	17	
Genesis	G0760E ↗	E3	0.7	R	74.4	9.9	3	132.7	908	18	
Xitavo	XO 1041E ↗	E3	1.0	R	74.3	10.1	3	130.7	906	19	
Latham	L 0995 E3 ↗	E3	0.9	R	74.3	9.9	7	131.3	906	20	
Apex	AE0611 ↗	E3	0.6	R	74.1	9.9	0	131.3	904	21	
Thunder	TE7207 ↗	E3	0.7	S	73.8	10.0	8	132.0	900	22	
Apex	AE0720 ↗	E3	0.7	R	73.8	9.9	3	133.0	900	23	
Asgrow	AG10XF1 § ↗	RXF	1.0	R	73.2	10.0	6	132.7	893	24	
NK Brand	NK08-B7XF ↗	RXF	0.8	R	73.0	10.0	9	131.7	891	25	
Thunder	TX8206N ↗	RXF	0.6	R	72.9	10.0	2	131.3	889	26	
Golden Harvest	GH0842E3 ↗	E3	0.8	R	72.8	9.8	1	130.0	888	27	
Genesis	G0750E ↗	E3	0.7	R	72.7	10.2	14	132.0	887	28	
Hefty	H08XF2 ↗	RXF	0.8	NA	72.7	10.1	12	131.7	887	29	
Loyal	L0640E ↗	E3	0.6	R	72.4	10.2	3	131.0	883	30	
Hefty	H10XF1 ↗	RXF	1.0	NA	72.4	9.9	14	130.7	883	31	
Channel	1022RFX CK	RXF	1.0	NA	74.7	10.2	2	131.0	911	16	
					Averages =	73.4	10.0	6	131.7	896	
					LSD (0.10) =	4.3	0.2	ns			
					LSD (0.25) =	2.2	0.1	ns			
Luke Brendemuhl					C.V. =	5.5					
luke.brendemuhl@firstseedtests.com, (218) 790-4497											Historic yield: 41.16 bu/a, 1 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$12.20

Report Date: 10/07/2021

† 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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MILNOR, ND
Steve Hogness, Sargent County, ND

Full-Season Test	1.0 - 1.4 Day CRM S2021RRSO03b
Top 30 of 43	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Accuron
SOIL DESCRIPTION:	Gardena-Glyndon silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 6.0 pH, 4.7% OM, 20.5 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Fierce Ez, Mad Dog, Medal Ec, Gunsmoke
Applied N-P-K (units):	0-0-0
SEDED - RATE - ROW:	May 16 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 131.8 /A

TEST COMMENTS:

The plot was planted into no-till corn residue, and it had adequate soil moisture at planting to allow for early and even emergence. This site was aided by the no-till conditions through the dry growing season, with there being good soil moisture under the corn residue at every site visit. At harvest, there was lodging among most of the varieties, which made some products difficult to harvest. Steve mentioned that he was seeing excellent test weights this year on soybeans, some at 59 pounds.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Dairyland	DSR-1450E ↗	E3	1.4	R	78.7	9.7	3	132.0	960	1	
Stine	14EE01 § ↗	E3	1.4	MR	77.5	10.1	7	131.3	946	2	
Brevant	B141EE § ↗	E3	1.4	MR	76.4	9.9	0	131.3	932	3	
Dairyland	DSR-1290E ↗	E3	1.2	R	76.2	9.7	6	132.0	930	4	
Loyal	L1230ES ↗	E3,ST	1.2	R	75.7	9.8	3	130.0	924	5	
Latham	L 1383 XF ↗	RXF	1.3	R	74.7	10.0	3	132.7	911	6	
Zinesto	Z1302E ↗	E3	1.3	NA	74.3	9.7	8	131.7	906	7	
Latham	L 1482 R2X ↗	RRX	1.4	R	74.2	9.8	14	132.7	905	8	
Dairyland	DSR-1318E ↗	E3	1.3	R	74.2	10.0	15	131.7	905	9	
Zinesto	Z1101E ↗	E3	1.1	R	73.9	9.8	6	132.7	902	10	
Xitavo	XO 1372E ↗	E3	1.3	R	73.7	9.7	10	132.3	899	11	
Stine	12EE63 § ↗	E3	1.2	R	71.8	10.1	17	132.5	876	12	
Hefty	H11XF2 ↗	RXF	1.1	NA	71.6	10.1	6	131.7	874	13	
Thunder	TX8211N ↗	RXF	1.1	R	71.6	10.3	6	131.0	874	14	
Golden Harvest	GH1472E3 § ↗	E3	1.4	R	71.4	9.9	10	130.7	871	15	
Apex	AE1420 ↗	E3	1.4	R	71.1	9.7	14	131.3	867	16	
Hefty	H14XF1 ↗	RXF	1.4	NA	71.0	9.7	4	131.3	866	17	
Credenz	CZ 1331GTLL ↗	LLGT27	1.3	R	70.8	10.1	7	132.7	864	18	
Loyal	L1440E ↗	E3	1.4	R	70.2	9.9	4	130.7	856	19	
Genesis	G1460E ↗	E3	1.4	R	70.2	10.1	6	131.0	856	20	
Zinesto	Z1411E ↗	E3	1.4	R	68.7	10.3	20	131.3	838	22	
Loyal	L1240E ↗	E3	1.2	R	68.2	10.0	40	131.7	832	23	
Asgrow	AG12XF1 § ↗	RXF	1.2	S	67.9	9.9	10	132.7	828	24	
NK Brand	NK14-C7XF ↗	RXF	1.4	R	67.6	9.9	20	131.7	825	25	
Xitavo	XO 1212E ↗	E3	1.2	R	67.5	10.0	25	131.0	824	26	
Xitavo	XO 1451E ↗	E3	1.4	R	67.4	10.3	14	132.0	822	27	
Apex	AE1410 ↗	E3	1.4	R	67.2	10.4	27	131.3	820	28	
Dyna-Gro	S12XF92 ↗	RXF	1.2	R	67.0	10.0	6	132.0	817	29	
Credenz	CZ 1171GTLL ↗	LLGT27	1.1	MR	66.4	9.5	5	133.0	810	30	
Hefty	H12XF2 ↗	RXF	1.2	NA	66.2	9.9	3	132.0	808	31	
Channel	1022RFX CK	RXF	1.0	NA	69.5	10.3	6	131.7	848	21	
					Averages =	69.3	10.0	12	131.8	846	
					LSD (0.10) =	4.7	0.2	9			
					LSD (0.25) =	2.5	0.1	5			
Luke Brendemuhl					C.V. =	6.4					
luke.brendemuhl@firstseedtests.com, (218) 790-4497											Historic yield: 41.16 bu/a, 1 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$12.20

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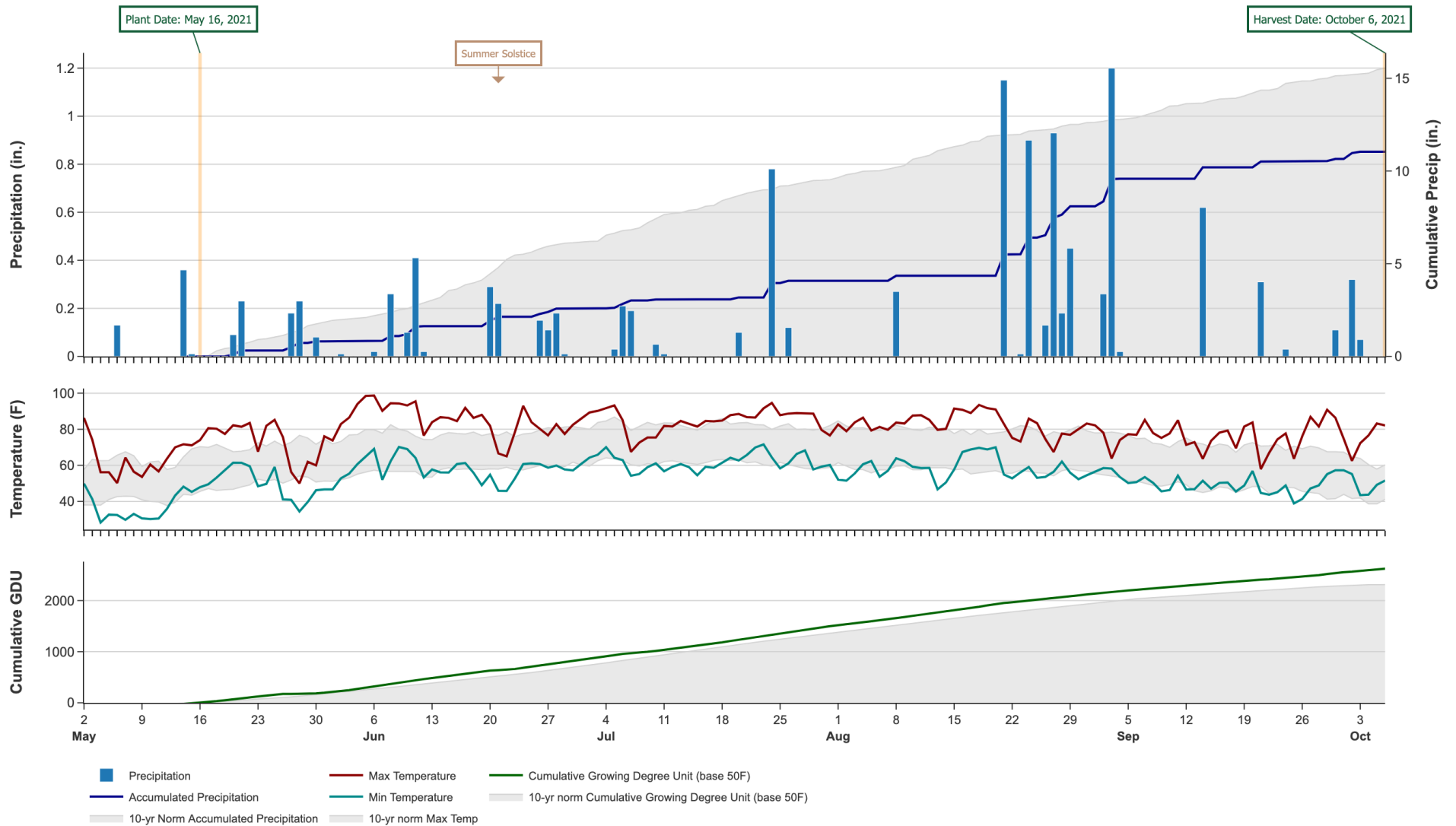
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2021 Soybeans - Red River South North Dakota & Minnesota [RRSO]

Weather Conditions Summary at MILNOR, ND

Weather Data Retrieved: 10/07/2021

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	1.3 2.8 (-1.5)	1.8 4.3 (-2.5)	1.5 3.4 (-1.9)	4.0 3.1 (+0.9)	2.5 2.5 (0.0)	0.4 0.4 (-0.0)	11.5 16.5 (-5.0)
GDU Normal (Diff)	272 258 (+13)	606 523 (+82)	696 671 (+24)	620 576 (+43)	420 343 (+76)	83 28 (+54)	2697 2402 (+294)



* 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	0622RXF §	RXF	NA	0.6	ACi,IL
Channel	1022RXF 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

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

* 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.

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	1022RFX 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

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

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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.