

Test by: Southern MN FIRST New Richland, MN

### 2021 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] MADISON LAKE, MN  
Mike Krenik, LeSueur County, MN 56063

<b>Early-Season Test</b>	Maturity Group 1.5 - 1.8 S2021MNSC07a
<b>Top 30 of 52</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Soybean / Sonic, Flexstar, Roundup
<b>SOIL DESCRIPTION:</b>	Le Sueur loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, very high K, 6.3 pH, 5.5% OM, 19.7 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/O Fall Till
<b>PEST MANAGEMENT:</b>	Flexstar, Cornerstone Plus, Cobra
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDING - RATE - ROW:</b>	May 11 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Nov 4 127.3 /A

#### TEST COMMENTS:

*This plot suffered from the effects of drought this season, especially the hot, dry June. Mike reported monthly rainfall totals around 0.5 in. less than the low monthly totals shown in the weather graphic on this report. Heavy weed pressure in the plot caused high yield variability at harvest, so the test results were rejected.*

Company/Brand	Product/Brand	Yield (bu)	Moisture (%)	Shrink (%)	Test Weight (lb/bu)	Planting Date	Harvest Date	Gross Income (\$/a)	Yield (bu/a)
Arco	4412004	898	13	4	78.8	12/2	8/2	898	1
Arco	4412002	897	13	4	78.8	12/2	8/2	897	2
Golden Harvest	501100003	83	13	4	79.1	12/2	8/2	813	3
Arden	411003	83	13	4	79.2	12/2	8/2	809	4
Arco	441100	83	13	4	79.2	12/2	8/2	802	5
Leifheit	L 1100000	83	13	4	79.7	12/2	8/2	874	6
Arco	4411000	807	13	4	79.3	12/2	8/2	873	7
Coronado	50110000	83	13	4	79.7	12/2	8/2	871	8
Arco	4411001	807	13	4	79.4	12/2	8/2	868	9
Arco	4411002	83	13	4	79.3	12/2	8/2	858	10
Leifheit	L 110000000	807	13	4	79.3	12/2	8/2	858	11
Arden	5110000	83	13	4	79.3	12/2	8/2	855	12
Arco	441100	83	13	4	79.3	12/2	8/2	854	13
Arco	4411002	807	13	4	79.3	12/2	8/2	852	14
Leifheit	L 1100000000	807	13	4	79.3	12/2	8/2	850	15
Leifheit	L 1100000	83	13	4	79.4	12/2	8/2	847	16
Arden	50110000	83	13	4	79.1	12/2	8/2	842	17
Arco	L 110000	83	13	4	79.3	12/2	8/2	839	18
Arden	121100000	83	13	4	79.3	12/2	8/2	839	19
Federal	F11000	83	13	4	79.3	12/2	8/2	835	20
Coronado	50110000	83	13	4	79.3	12/2	8/2	831	21
Arden	441100	807	13	4	79.3	12/2	8/2	828	22
Pharos	F11000	898	13	4	79.3	12/2	8/2	828	23
Arco	4411000	83	13	4	79.7	12/2	8/2	828	24
Gold Country	10000	898	13	4	79.4	12/2	8/2	828	25
Coronado	50110000	83	13	4	79.4	12/2	8/2	827	26
Arden	511000	83	13	4	79.2	12/2	8/2	826	27
Pharos	5110000	83	13	4	79.3	12/2	8/2	826	28
Arco	4411000	83	13	4	79.3	12/2	8/2	825	29
Arco	4411000	83	13	4	79.3	12/2	8/2	825	30



*Mark Querna*

Mark Querna

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Averages =	<b>64.2</b>	<b>13.6</b>	<b>3</b>	<b>127.3</b>	<b>801</b>
LSD (0.10) =	ns	0.5	8		
LSD (0.25) =	ns	0.3	4		

C.V. = 12.2

Historic yield: 58.84 bu/a, 14 yr(s)

**Yield & Income Factors:** Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$12.50

Report Date: 11/05/2021

Additional reports available at [www.firstseedtests.com](http://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. ↗ New! Links to full product yield results at [www.firstseedtests.com](http://www.firstseedtests.com)

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Test by: Southern MN FIRST New Richland, MN

### 2021 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] MADISON LAKE, MN  
Mike Krenik, LeSueur County, MN 56063

<b>Full-Season Test</b>	Maturity Group 1.9 - 2.2 S2021MNSC07b
<b>Top 30 of 54</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Soybean / Sonic, Flexstar, Roundup
<b>SOIL DESCRIPTION:</b>	Le Sueur loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, very high K, 6.3 pH, 5.5% OM, 19.7 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/O Fall Till
<b>PEST MANAGEMENT:</b>	Flexstar, Cornerstone Plus, Cobra
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDING - RATE - ROW:</b>	May 11 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Nov 4 126.8 /A

#### TEST COMMENTS:

*This plot suffered from the effects of drought this season, especially the hot, dry June. Mike reported monthly rainfall totals around 0.5 in. less than the low monthly totals shown in the weather graphic on this report. Heavy weed pressure in the plot caused high yield variability at harvest, so the test results were rejected.*

Company/Brand	Product/Brand	Yield †	Mo	Shr	Yield Bu/a	Moisture %	Logging %	Stand (2000)	Gross Income \$/A	Rank
Latham	L2000 4P *	80P	2.2	R	84.3	13.8	6	126.3	802	1
Prosoy	PR14200 g *	80P	2.1	R	83.8	13.8	6	126.7	794	2
Stax	210000 g *	83	2.1	R	81.8	13.8	6	127.7	771	4
Arcturian	210007 *	80P	2.0	NR	81.4	13.8	1	126.0	768	5
Genesee	020000 *	83	2.2	R	81.2	13.8	2	126.0	764	6
Federal	F21270 *	11407P	2.1	R	81.1	13.7	1	126.0	762	7
Indy	401002 *	80P	2.1	R	81.1	13.7	1	126.0	761	8
Latham	L2100 402 *	80P	2.1	R	81.1	13.8	1	126.0	761	9
Prosoy	020003 *	83	2.1	R	80.9	13.8	1	126.3	748	10
Dayland	00N 2100 *	83	2.1	R	80.9	13.8	1	126.7	736	11
Golden Harvest	0401003 *	83	2.1	NR	80.9	13.8	2	127.7	736	12
Dayland	0100021 *	83	1.9	R	80.5	13.4	6	126.0	731	13
Indy	401002 *	80P	2.0	R	80.3	13.8	3	127.0	728	14
Genesee	010000 *	83	1.9	R	80.3	13.8	27	126.7	721	15
Prosoy	210000 *	83	2.1	R	80.3	13.8	3	126.3	721	16
Arcturian	401000P *	80P	2.1	R	80.3	13.8	4	126.7	718	17
US Seed	L1000000P 02 *	80P	2.1	R	80.3	13.8	6	127.0	716	18
Gold Country	22000P *	83	2.1	R	80.2	14.0	1	126.0	701	19
Dayland	00N 2200 *	83	2.2	R	80.7	13.1	6	127.0	698	20
Ark	401000 *	83	2.1	R	80.7	13.7	6	126.0	695	21
Dayland	00N 2200 *	83	2.0	R	80.7	13.8	1	126.0	695	22
Prosoy	2100 *	83	2.1	R	80.6	13.4	3	126.0	694	23
Dayland	401000 *	80P	2.1	R	80.5	13.8	6	126.0	692	24
Prosoy	22000 *	83	2.2	NR	80.5	13.8	3	126.7	692	25
Golden Harvest	0401000P *	80P	2.1	NR	80.4	13.8	22	127.7	691	27
Ark	402100 *	83	2.1	R	80.4	13.4	6	126.0	692	26
US Seed	4021 4003 *	83	2.2	R	80.3	13.4	1	127.3	688	28
Ark	401000 *	83	1.9	R	80.3	13.8	6	126.0	688	29
Prosoy	220000 *	83	2.0	NR	80.3	13.8	21	126.0	687	30
US Seed	4021 4000P g *	80P	2.1	NR	80.0	13.8	2	116.0	687	31
Arcturian	401000 *	83	2.2	R	80.0	13.8	7	126.7	679	32

REJECTED

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Averages =	<b>55.5</b>	<b>13.7</b>	<b>6</b>	<b>126.8</b>	<b>692</b>
LSD (0.10) =	ns	0.4	13		
LSD (0.25) =	ns	0.2	7		
C.V. =	14.0			Historic yield: 58.84 bu/a, 14 yr(s)	

**Yield & Income Factors:** Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$12.50

Report Date: 11/05/2021

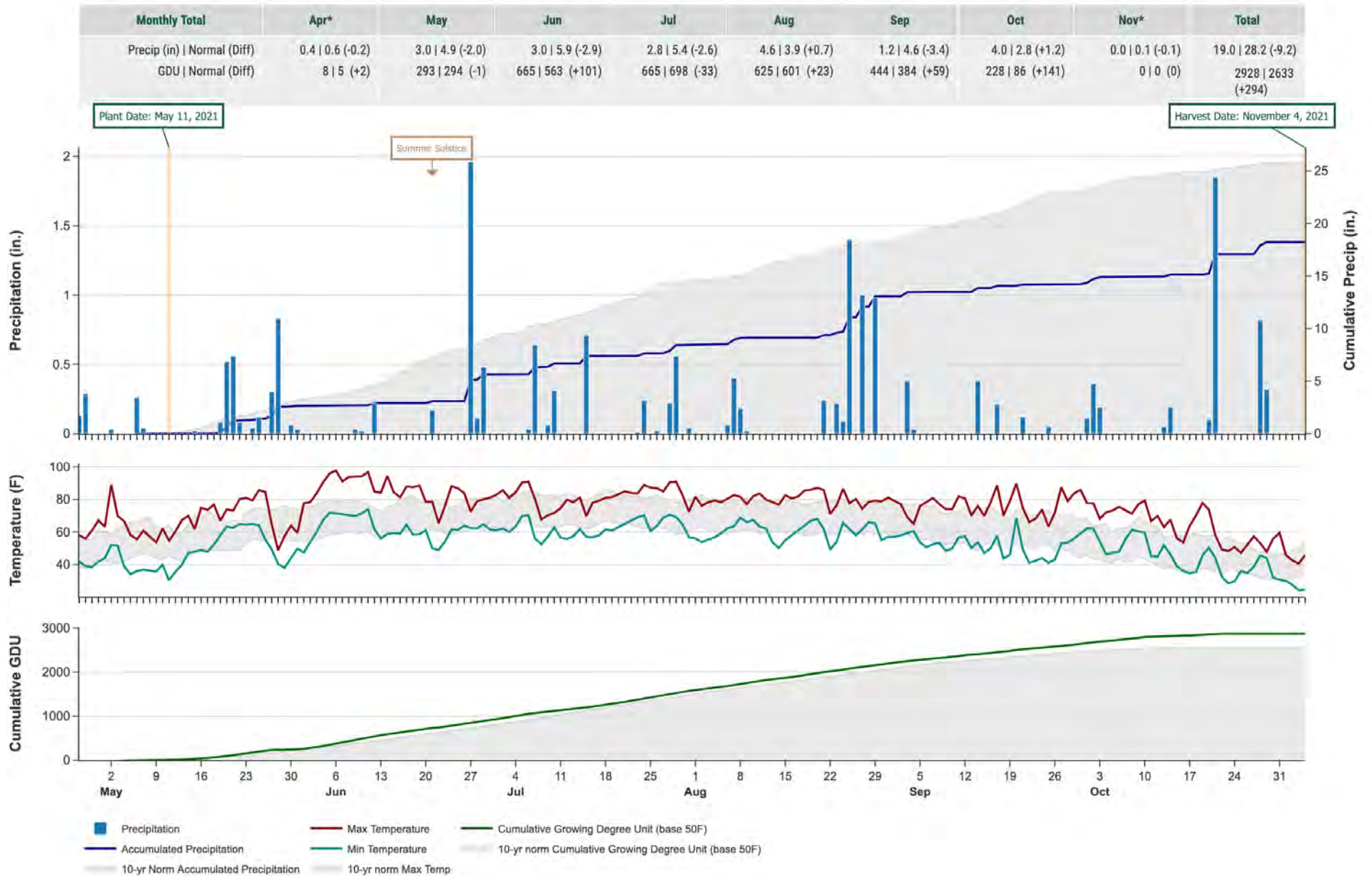
Additional reports available at [www.firstseedtests.com](http://www.firstseedtests.com)

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# 2021 Soybeans - Minnesota South Central [ MNSC ]

## Weather Conditions Summary at MADISON LAKE, MN

Weather Data Retrieved: 11/05/2021



\* 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 - Minnesota South Central [ MNSC ]

### Early-Season Test Products (52 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	159RXT	RRX	MR	1.5	Untreated
Anderson	A151E3	E3	NA	1.5	Untreated
Anderson	A180E3	E3	NA	1.8	Untreated
Anderson	A1821XF	RXF	NA	1.8	Untreated
Apex	AE1520	E3	R	1.5	CMBV,SA
Apex	AE1710	E3	R	1.7	CMBV,SA
Apex	AE1720	E3	R	1.7	CMBV,SA
Asgrow	AG15XF2 §	RXF	R	1.5	ACi,IL
Asgrow	AG18XF1 §	RXF	R	1.8	Untreated
Credenz	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
Dahlman	1215E3N GC	E3	NA	1.5	Untreated
Dahlman	6815XN GC	RRX	R	1.5	IS
Dahlman	7218XF CK	RXF	NA	1.8	IS
Dairyland	DSR-1673E	E3	R	1.6	Lum,IL
Dairyland	DSR-1707E	E3	R	1.7	Lum,IL
Dairyland	DSR-1820E	E3	R	1.8	Lum,IL
Dyna-Gro	S17XF02	RXF	MR	1.7	EQV,SA
Dyna-Gro	S18EN52	E3	MR	1.8	EQV,SA
Federal	F1709N	LLGT27	R	1.7	MAG
Federal	F1720N	RXF	R	1.7	MAG
Genesis	G1560E	E3	R	1.5	CMBV,SA
Genesis	G1680GL	LLGT27	R	1.6	CMBV,SA
Genesis	G1760E	E3	R	1.7	CMBV,SA
Gold Country	1531XF	RXF	R	1.5	ACi,IL
Gold Country	1609X	RRX	R	1.6	ACi,IL
Golden Harvest	GH1762XF §	RXF	MR	1.7	CMBV,SA
Golden Harvest	GH1802E3	E3	R	1.8	CMBV,SA
Hefty	H15XF2	RXF	NA	1.5	DST5
Hefty	H16XF2	RXF	NA	1.6	DST4,SA
Hefty	H17XF1	RXF	NA	1.7	DST4,SA
Hefty	H18XF2	RXF	NA	1.8	DST4,SA
Innotech	IS1761E3	E3	MR	1.7	Fortify
Latham	L 1558 E3	E3	R	1.5	SS+,SA
Latham	L 1648 LLGT27	LLGT27	R	1.6	SS+
Latham	L 1758 E3	E3	R	1.7	SS+,SA
Latham	L 1784 XF	RXF	R	1.7	SS+,SA
LG Seeds	LGS1769XF GC	RXF	R	1.7	ASfi,SA
Loyal	L1540E	E3	R	1.5	CMBV,SA
Loyal	L1740E	E3	R	1.7	CMBV,SA
NK Brand	NK17-M2XF	RXF	R	1.7	CMBV,SA
NK Brand	NK18-J7E3 §	E3	MR	1.8	CMBV,SA
Pioneer	P15A63X §	RRX	NA	1.5	Untreated

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Pioneer	P18A33X §	RRX	NA	1.8	Lum,Lu
Renk	RS150NX	RRX	R	1.5	EcTC
Stine	17EE32 §	E3	R	1.7	SFI
Xitavo	XO 1632E	E3	R	1.6	PV,IL,OB
Xitavo	XO 1761E	E3	R	1.7	PV,IL,OB
Xitavo	XO 1822E	E3	R	1.8	PV,IL,OB
Zinesto	Z1502E	E3	NA	1.5	DST4,SA
Zinesto	Z1702E	E3	NA	1.7	DST4,SA
Zinesto	Z1801E	E3	R	1.8	DST4,SA
Zinesto	Z1802E	E3	NA	1.8	DST4,SA

## 2021 Soybeans - Minnesota South Central [ MNSC ]

### Full-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	217RXT	RRX	MR	2.0	Untreated
Anderson	A200E3	E3	NA	2.0	Untreated
Anderson	A2121XF	RXF	NA	2.0	Untreated
Apex	AE1920	E3	R	1.9	CMBV,SA
Apex	AE2020	E3	R	2.0	CMBV,SA
Apex	AE2110	E3	R	2.1	CMBV,SA
Apex	AE2220	E3	R	2.2	CMBV,SA
Asgrow	AG21XF0 §	RXF	R	2.1	ACi,IL
Credenz	CZ 2121GTLL	LLGT27	MR	2.1	PV,IL,OB
Dahlman	7218XF CK	RXF	NA	1.8	IS
Dairyland	DSR-2030E	E3	R	1.9	Lum,IL
Dairyland	DSR-2040E	E3	R	2.0	Lum,IL
Dairyland	DSR-2112E	E3	R	2.1	Lum,IL
Dairyland	DSR-2222E	E3	R	2.2	Lum,IL
Dyna-Gro	S19EN21	E3	R	1.9	EQV,SA
Dyna-Gro	S21EN81	E3	R	2.1	EQV,SA
Dyna-Gro	S21XF61	RXF	R	2.1	EQV,SA
Federal	F2121N	LLGT27	R	2.1	MAG
Federal	F2210N	RXF	R	2.2	MAG
Genesis	G1950E	E3	R	1.9	CMBV,SA
Genesis	G1960E	E3	R	1.9	CMBV,SA
Genesis	G2060E	E3	R	2.0	CMBV,SA
Genesis	G2260E	E3	R	2.2	CMBV,SA
Gold Country	2250XF	RXF	R	2.2	ACi,IL
Golden Harvest	GH2102XF	RXF	MR	2.1	CMBV,SA
Golden Harvest	GH2292E3	E3	MR	2.2	CMBV,SA
Hefty	H20X7	RRX	MR	2.0	DST4,SA
Hefty	H20XF1	RXF	NA	2.0	DST4,SA
Hefty	H20XF2	RXF	NA	2.0	DST4,SA
Hefty	H21XF2	RXF	NA	2.1	DST4,SA
Innotech	IS2089E3	E3	MR	2.0	Fortify
Latham	L 2049 E3	E3	R	2.0	SS+,SA
Latham	L 2184 R2X	RRX	R	2.1	SS+,SA
Latham	L 2193 E3	E3	R	2.1	SS+,SA
Latham	L 2283 XF	RXF	R	2.2	SS+,SA
LG Seeds	LGS2025XF GC	RXF	R	2.0	Asfi,SA
Loyal	L1940E	E3	R	1.9	CMBV,SA
Loyal	L2040E	E3	R	2.0	CMBV,SA
Loyal	L2130E	E3	R	2.1	CMBV,SA
Loyal	L2240E	E3	R	2.2	CMBV,SA
NK Brand	NK19-C8XF	RXF	R	1.9	CMBV,SA
NK Brand	NK21-H4XF §	RXF	MR	2.1	CMBV,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
NK Brand	NK22-C4E3	E3	R	2.2	CMBV,SA
Pioneer	P20T64E GC	E3	R	2.0	Lum,Lu
Pioneer	P21A28X §	RRX	R	2.1	Lum,Lu
Renk	RS212NXF	RXF	R	2.1	EcTC,SA
Renk	RS219NX	RRX	R	2.1	EcTC,SA
Stine	20EE23 §	E3	R	2.0	SFI
Stine	21EE62 §	E3	R	2.1	SFI
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB
Zinesto	Z1902E	E3	NA	1.9	DST5
Zinesto	Z2002E	E3	NA	2.0	DST4,SA
Zinesto	Z2101E	E3	R	2.1	DST4,SA
Zinesto	Z2202E	E3	NA	2.2	DST4,SA

## Footnotes and Abbreviations Descriptions

### Brand Footnotes

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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

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

### Soybeans Technologies

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

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### Soybeans Seed Treatments\*

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NA	Not Available
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ASfi,SA	AgriShield Max with Saltro®
CMBV,SA	Cruisermassx® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
DST5	Dominance 5 ST
EcTC	Eclipse US Total Coverage Trio IM, N-Force
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro®
EQV,SA	Equity VIP, Saltro®
Fortify	Insecticide-Fungicide (Rob-See-Co)
IS	Intego® Suite
Lum,IL	LumiGEN™ plus ILeVO
Lum,Lu	LumiGEN™, Lumisena™
MAG	Max Armor Guard (Federal Hybrids)
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

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\* Seed treatments may include unspecified plant health promoting components.