

Test by: Southern MN FIRST New Richland, MN

**2021 Soybeans Top 30 Harvest Report**

Minnesota South [MNSO] EASTON, MN  
Dru Martin, Faribault County, MN 56025

<b>Early-Season Test</b>	1.6 - 1.9 Day CRM S2021MNSO02a
<b>Top 30 of 53</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Resicore
<b>SOIL DESCRIPTION:</b>	Marna silty clay loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	high P, medium K, 5.9 pH, 6.0% OM, 31.6 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Flexstar, Priaxor, Endigo
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	May 6 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 4 122.4 /A

**TEST COMMENTS:**

The soil was dry at planting, yet beans eventually emerged well. Dru said the lack of rain during the season was the biggest factor in affecting yields across his fields. This site exhibited the effects of Dicamba drift. The host farmer did not spray dicamba on any of his acres, and estimated the drift was from 1/2 mile away or more. Hot temps during spraying caused volatilization and inversion of this herbicide. Some varieties were more than 6 inches shorter in height. Due to damage to non-tolerant plants, and significant statistical difference between dicamba-tolerant and non-tolerant yields, both test results were rejected.

Company/Brand	Product/Brand	Yield †	GR	SCN Resist.	Yield Bu./A ‡	Moisture %	lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Pioneer	P184228 g +	895	1.8	NA	78.7	12.2	0	122.0	888	1
Federal	F18226 +	897	1.8	R	79.8	12.4	0	123.3	924	2
Hydly	H18072 +	897	1.8	NA	79.4	12.2	0	123.3	918	3
Agri	AE1800 +	83	1.8	R	79.9	12.8	0	123.3	888	4
Argus	AE18071 g +	897	1.8	R	79.9	12.3	0	123.3	888	5
Hydly	H18071 +	895	1.8	R	79.9	11.9	0	123.3	892	6
Agri	AE1720 +	83	1.7	R	79.3	12.3	0	123.3	876	7
Diamond	D180204 GC +	83	1.8	R	79.1	12.7	0	123.3	876	8
Diamond	D180204 GC +	895	1.8	R	79.3	12.7	0	123.3	876	9
Diamond	D17802 +	83	1.8	R	80.0	12.7	0	123.3	876	10
Logan	L18002 +	83	1.8	R	79.7	12.7	0	123.3	876	11
Diamond	D17802 +	83	1.8	R	80.3	12.7	0	123.3	880	12
Logan	L18002 +	83	1.8	R	80.4	12.8	0	123.3	880	13
Novus	NO 18020 +	83	1.8	R	80.4	12.4	1	118.7	885	14
Golden Harvest	GH180203 +	83	1.8	R	80.8	12.9	0	123.3	885	15
Arden	A180147 +	897	1.8	R	80.8	12.2	0	123.3	885	16
Dynacore	D178012 +	897	1.8	NA	80.4	12.8	0	118.3	885	18
McTee	M18020 +	83	1.8	R	80.1	12.1	0	123.3	891	19
Dynacore	D180042 +	83	1.8	NA	80.1	12.2	0	123.7	891	20
Dynacore	D18002 +	83	1.8	NA	80.1	12.3	0	123.3	891	21
Golden Harvest	GH180203 +	83	1.7	NA	80.0	12.3	0	118.0	890	22
Logan	L17802 +	897	1.7	R	80.0	12.8	0	123.7	890	23
Dynacore	D18002 +	83	1.8	NA	87.8	12.8	0	123.7	890	24
Logan	L178023 +	83	1.7	R	87.8	12.4	0	128.0	898	25
Gold Country	GC180147 +	897	1.8	R	87.8	12.8	0	124.0	898	26
McTee	M180147G3 +	83	1.8	R	87.8	13.2	0	118.3	897	27
Agri	AE1800 +	83	1.8	R	87.8	12.2	4	128.3	895	28
Dynacore	D1802000 +	83	1.8	R	87.8	12.4	0	124.7	895	29
Novus	N180202 g +	83	1.7	R	87.8	13.1	1	118.7	893	30
Hydly	H178071 +	897	1.7	NA	87.2	12.1	0	123.7	893	31
Dynacore	D1802000 +	83	1.7	R	87.2	12.1	1	117.7	893	32



*Mark Querna*

Mark Querna

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Averages =	<b>67.2</b>	<b>12.4</b>	<b>1</b>	<b>122.4</b>	<b>840</b>
LSD (0.10) =	4.4	0.4	ns		
LSD (0.25) =	2.3	0.2	ns		
C.V. =	6.3			Historic yield: 57.44 bu/a, 19 yr(s)	

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

Report Date: 10/05/2021

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)

Test by: Southern MN FIRST New Richland, MN

## 2021 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] EASTON, MN  
Dru Martin, Faribault County, MN 56025

<b>Full-Season Test</b>	2.0 - 2.3 Day CRM S2021MNSO02b
<b>Top 30 of 54</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Resicore
<b>SOIL DESCRIPTION:</b>	Marna silty clay loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	high P, medium K, 5.9 pH, 6.0% OM, 31.6 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Flexstar, Priaxor, Endigo
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	May 6 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 4 122.3 /A

### TEST COMMENTS:

The soil was dry at planting, yet beans eventually emerged well. Dru said the lack of rain during the season was the biggest factor in affecting yields across his fields. This site exhibited the effects of Dicamba drift. The host farmer did not spray dicamba on any of his acres, and estimated the drift was from 1/2 mile away or more. Hot temps during spraying caused volatilization and inversion of this herbicide. Some varieties were more than 6 inches shorter in height. Due to damage to non-tolerant plants, and significant statistical difference between dicamba-tolerant and non-tolerant yields, both test results were rejected.

Company/Brand	Product/Brand	Yield <sup>†</sup>	GR	GCN Result	Yield Bu/A	Moisture %	Logging %	Stand in 2020	Gross Income \$/Acre	Rank
M&M Brand	8821-8827 g +	NSP	2.1	NS	77.2	12.4	0	124.0	859	1
Federal	F22106 +	NSP	2.2	N	75.2	12.2	0	124.0	840	2
Gold Country	220007 +	NSP	2.2	N	74.8	13.1	0	127.3	836	3
Golden Harvest	04210207 +	NSP	2.1	NS	74.8	12.3	0	124.7	835	4
Genesee	021802L +	LL0707	2.1	N	74.8	12.5	0	124.7	832	5
Dynalco	5214712 +	NSP	2.1	N	73.0	12.0	0	123.3	831	6
Latham	L 2200-828 +	NSP	2.2	N	72.4	12.1	0	124.7	824	7
Proseed	F22106-02 +	NSP	2.2	N	72.4	13.0	0	124.7	816	8
Argus	4022072 g +	NSP	2.2	N	72.3	12.3	0	123.3	810	9
Federal	F22106 +	NSP	N	NS	72.0	12.1	0	124.0	810	10
Agri	402116 +	ES	2.1	N	71.7	12.1	0	124.7	809	11
Danland	004-21102 +	ES	2.1	N	71.2	12.5	0	125.3	802	12
Anderson	211847 +	NSP	2.0	NS	71.0	11.8	0	121.7	800	13
Holly	402071 +	NSP	2.0	N	70.8	12.4	0	114.0	800	14
Argus	4021072 g +	NSP	2.0	N	71.1	12.4	0	114.7	800	15
Latham	L 2100-82 +	ES	2.1	N	70.9	12.3	0	125.3	800	16
Holly	402071 +	NSP	2.0	NS	70.8	12.8	0	123.0	802	17
Perk	40212007 +	NSP	2.1	N	70.1	13.2	0	113.3	876	18
Agri	402200 +	NSP	2.2	N	70.0	12.5	1	124.7	875	19
Latham	L 2000-82 +	ES	2.0	N	70.0	12.7	0	123.7	875	20
Logic	L2000 +	ES	2.2	N	69.2	12.0	0	123.0	869	21
Genesee	021802L +	ES	2.1	N	69.0	12.6	0	124.3	862	22
Agri	402200 +	ES	2.0	N	69.0	12.8	0	123.0	862	23
Logic	L2000 +	ES	2.0	N	68.9	13.3	3	116.3	861	24
Proseed	F22106-02 g +	NSP	2.1	N	68.9	12.3	0	122.7	861	25
Genesee	021802L +	ES/07	2.3	NS	68.8	13.7	0	121.3	858	27
Genesee	021802L +	ES	2.1	N	68.8	12.3	0	125.3	850	28
Genesee	T22007-02 +	NSP	2.0	NS	68.1	12.2	0	124.7	851	26
Genesee	021802L +	ES	2.2	N	67.9	13.6	0	114.7	846	30
Genesee	T22007-02 g +	ES	2.1	N	67.7	12.8	0	125.7	846	31

REJECTED

*Mark Querna*

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Averages = **68.8**    **12.6**    **0**    **122.3**    **859**

LSD (0.10) = 4.5    0.6    ns

LSD (0.25) = 2.3    0.3    ns

C.V. = 6.2

Historic yield: 57.44 bu/a, 19 yr(s)

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

Report Date: 10/05/2021

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† 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)

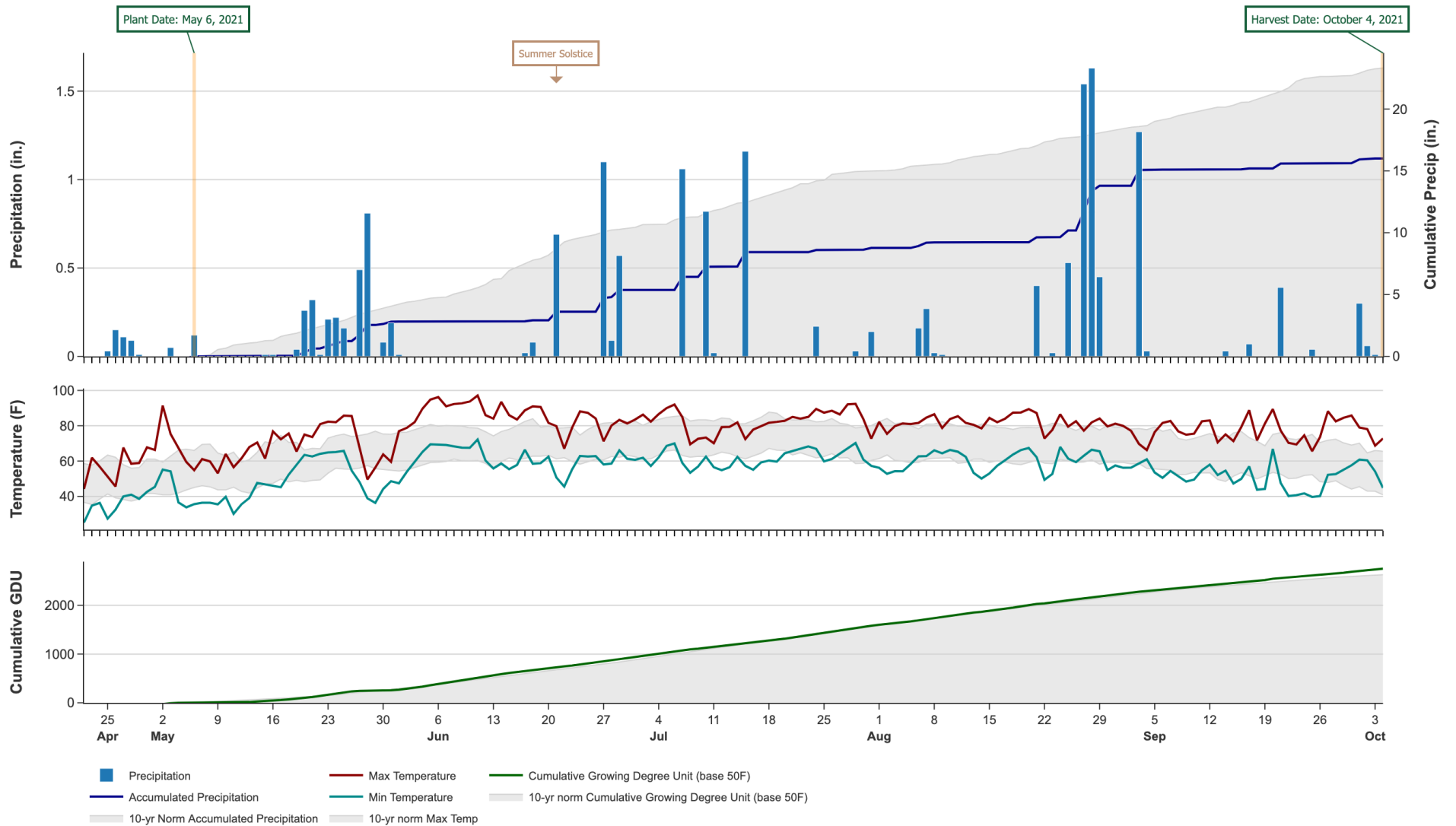
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# 2021 Soybeans - Minnesota South [ MNSO ]

## Weather Conditions Summary at EASTON, MN

Weather Data Retrieved: 10/05/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	0.4   1.1 (-0.7)	3.0   4.8 (-1.8)	2.6   6.3 (-3.7)	3.4   4.6 (-1.2)	5.0   3.4 (+1.7)	1.8   4.4 (-2.6)	0.4   0.6 (-0.2)	16.6   25.2 (-8.6)
GDU   Normal (Diff)	18   18 (0)	308   314 (-6)	661   587 (+73)	665   712 (-47)	648   619 (+28)	460   403 (+56)	62   33 (+28)	2822   2689 (+132)



\* 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 [ MNSO ]

### Early-Season Test Products (53 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	A180E3	E3	NA	1.8	Untreated
Anderson	A1821XF	RXF	NA	1.8	Untreated
Apex	AE1720	E3	R	1.7	CMBV,SA
Apex	AE1910	E3	R	1.9	CMBV,SA
Apex	AE1920	E3	R	1.9	CMBV,SA
Apex	AE1930	E3	R	1.9	CMBV,SA
Asgrow	AG18XF1 §	RXF	R	1.8	Untreated
Credenz	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
Dahlman	1120E3N CK	E3	NA	2.0	IS
Dahlman	1215E3N GC	E3	NA	1.5	Untreated
Dahlman	6815XN GC	RRX	R	1.5	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
Dairyland	DSR-2030E	E3	R	1.9	Lum,IL
Dyna-Gro	S17XF02	RXF	MR	1.7	EQV,SA
Dyna-Gro	S18EN52	E3	MR	1.8	EQV,SA
Federal	F1909N	LLGT27	R	1.9	MAG
Federal	F1920N	RXF	R	1.9	MAG
Genesis	G1680GL	LLGT27	R	1.6	CMBV,SA
Genesis	G1760E	E3	R	1.7	CMBV,SA
Genesis	G1950E	E3	R	1.9	CMBV,SA
Genesis	G1960E	E3	R	1.9	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	H16X1	RRX	R	1.6	DST4,SA
Hefty	H16XF2	RXF	NA	1.6	DST4,SA
Hefty	H17XF1	RXF	NA	1.7	DST4,SA
Hefty	H18XF2	RXF	NA	1.8	DST4,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
Latham	L 1995 E3	E3	R	1.9	SS+,SA
Loyal	L1740E	E3	R	1.7	CMBV,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Loyal	L1940E	E3	R	1.9	CMBV,SA
Loyal	L1950E	E3	R	1.9	CMBV,SA
NK Brand	NK17-M2XF	RXF	R	1.7	CMBV,SA
NK Brand	NK18-J7E3 §	E3	MR	1.8	CMBV,SA
NK Brand	NK19-C8XF	RXF	R	1.9	CMBV,SA
NK Brand	NK19-Y5E3	E3	R	1.9	CMBV,SA
NuTech	18N02E	E3	R	1.8	Lum,Lu,IL
Pioneer	P15A63X §	RRX	NA	1.5	Untreated
Pioneer	P18A33X §	RRX	NA	1.8	Lum,Lu
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	Z1702E	E3	NA	1.7	DST4,SA
Zinesto	Z1801E	E3	R	1.8	DST4,SA
Zinesto	Z1802E	E3	NA	1.8	DST4,SA
Zinesto	Z1902E	E3	NA	1.9	DST5

\* 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 - Minnesota South [ MNSO ]

### 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	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
Asgrow	AG22XF2 §	RXF	R	2.2	ACi,IL
Credenz	CZ 2121GTLL	LLGT27	MR	2.1	PV,IL,OB
Dahlman	1120E3N CK	E3	NA	2.0	IS
Dahlman	7220XF GC	RXF	NA	2.0	IS
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	S21EN81	E3	R	2.1	EQV,SA
Dyna-Gro	S21XF61	RXF	R	2.1	EQV,SA
Dyna-Gro	S21XF72	RXF	R	2.1	EQV,SA
Federal	F2210N	RXF	R	2.2	MAG
Federal	F2320N	RXF	R	2.3	MAG
Genesis	G2060E	E3	R	2.0	CMBV,SA
Genesis	G2150E	E3	R	2.1	CMBV,SA
Genesis	G2190GL	LLGT27	R	2.1	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	H20XF1	RXF	NA	2.0	DST4,SA
Hefty	H20XF2	RXF	NA	2.0	DST4,SA
Hefty	H21XF2	RXF	NA	2.1	DST4,SA
Hefty	H23XF1	RXF	NA	2.3	DST4,SA
Latham	L 2049 E3	E3	R	2.0	SS+,SA
Latham	L 2193 E3	E3	R	2.1	SS+,SA
Latham	L 2295 R2X	RRX	R	2.2	SS+,SA
Latham	L 2379 E3	E3	R	2.3	SS+,SA
Loyal	L2040E	E3	R	2.0	CMBV,SA
Loyal	L2130E	E3	R	2.1	CMBV,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Loyal	L2240E	E3	R	2.2	CMBV,SA
NK Brand	NK21-H4XF §	RXF	MR	2.1	CMBV,SA
NK Brand	NK22-C4E3	E3	R	2.2	CMBV,SA
NuTech	20N04E	E3	R	2.0	Lum,Lu,IL
NuTech	21N06E	E3	R	2.1	Lum,Lu,IL
Pioneer	P20T64E GC	E3	R	2.0	Lum,Lu
Pioneer	P21A28X §	RRX	R	2.1	Lum,Lu
Pioneer	P23A15X GC	RRX	R	2.3	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
Xitavo	XO 2282E	E3	R	2.2	PV,IL,OB
Zinesto	Z2002E	E3	NA	2.0	DST4,SA
Zinesto	Z2101E	E3	R	2.1	DST4,SA
Zinesto	Z2202E	E3	NA	2.2	DST4,SA
Zinesto	Z2302SE	E3,ST	NA	2.3	DST5

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## 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®
ST	Sulfonylurea tolerant

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### Soybeans Seed Treatments\*

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NA	Not Available
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
CMBV,SA	Cruisermass® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
DST5	Dominance 5 ST
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro®
EQV,SA	Equity VIP, Saltro®
IS	Integro® Suite
Lum,IL	LumiGEN™ plus ILeVO
Lum,Lu	LumiGEN™, Lumisena™
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
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.