

Test by: Southern MN FIRST New Richland, MN

## 2021 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] WINTHROP, MN  
Jim Sallstrom, Sibley County, MN

<b>Early-Season Test</b>	1.5 - 1.8 Day CRM S2021MNSC06a
<b>Top 30 of 52</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Acuron, Glyphosate, Atrazine
<b>SOIL DESCRIPTION:</b>	Nicolet clay loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	very low P, low K, 7.6 pH, 4.9% OM, 29.6 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Authority First, Metribuzin, Flexstar, Cornerstone Plus, Section Three
<b>FERTILITY - Applied N:</b>	21 Spring
<b>Applied N-P-K (units):</b>	21-0-30
<b>SEEDED - RATE - ROW:</b>	May 7 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 5 122.6 /A

### TEST COMMENTS:

Planting conditions were great, as 1 pass with vertical tillage in the fall, and a 2nd pass in the spring provided a good seedbed. The first vertical replication of both tests was on lower ground, and showed lower yields, possibly from white mold. Jim noted that very tall varieties were laying down in early Sept as a result of the excellent growing season. Jim also noted that Sibley County was not in a drought this year; rains came at the right time and were not excessive.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Hefty	H18XF2 ↗	RXF	1.8	NA	<b>75.2</b>	12.4	0	124.7	940	1
Pioneer	P18A33X § ↗	RRX	1.8	NA	<b>73.2</b>	12.2	1	124.3	915	2
Genesis	G1760E ↗	E3	1.7	R	<b>72.7</b>	12.2	3	122.0	909	3
Anderson	A151E3 ↗	E3	1.5	NA	<b>72.5</b>	12.5	0	123.0	906	4
LG Seeds	LGS1769XF GC ↗	RXF	1.7	R	69.8	11.8	0	121.0	872	5
Apex	AE1720 ↗	E3	1.7	R	69.8	12.2	1	123.7	872	6
Xitavo	XO 1632E ↗	E3	1.6	R	69.1	12.6	0	122.7	864	7
Asgrow	AG15XF2 § ↗	RXF	1.5	R	69.0	12.0	0	120.7	862	8
Apex	AE1710 ↗	E3	1.7	R	68.8	12.2	0	124.0	860	9
Genesis	G1560E ↗	E3	1.5	R	68.5	12.6	1	123.7	856	10
Anderson	159RXT ↗	RRX	1.5	MR	68.4	12.1	0	121.7	855	11
Apex	AE1520 ↗	E3	1.5	R	68.3	12.4	0	123.0	854	12
Dairyland	DSR-1707E ↗	E3	1.7	R	67.3	12.1	1	122.7	841	13
Hefty	H17XF1 ↗	RXF	1.7	NA	67.2	11.9	1	123.3	840	14
Golden Harvest	GH1802E3 ↗	E3	1.8	R	67.0	11.9	1	121.0	838	15
Latham	L 1648 LLGT27 ↗	LLGT27	1.6	R	66.9	12.2	0	121.7	836	16
Genesis	G1680GL ↗	LLGT27	1.6	R	66.8	12.0	0	123.3	835	17
Asgrow	AG18XF1 § ↗	RXF	1.8	R	66.2	12.1	0	123.3	828	18
NK Brand	NK17-M2XF ↗	RXF	1.7	R	66.0	12.3	1	122.7	825	19
Latham	L 1784 XF ↗	RXF	1.7	R	65.4	12.1	0	123.3	818	20
Gold Country	1609X ↗	RRX	1.6	R	65.3	12.3	0	123.0	816	21
Xitavo	XO 1761E ↗	E3	1.7	R	65.0	12.1	1	120.7	812	22
Innotech	IS1761E3 ↗	E3	1.7	MR	64.9	13.7	0	123.0	810	23
Loyal	L1540E ↗	E3	1.5	R	64.8	12.6	0	122.7	810	24
Loyal	L1740E ↗	E3	1.7	R	64.5	12.8	4	121.7	806	25
Renk	RS150NX ↗	RRX	1.5	R	64.4	12.2	0	122.7	805	26
Dairyland	DSR-1820E ↗	E3	1.8	R	64.0	12.2	1	121.3	800	27
Golden Harvest	GH1762XF § ↗	RXF	1.7	MR	63.8	11.8	0	121.7	798	28
Dahlman	6815XN GC ↗	RRX	1.5	R	63.7	12.4	0	123.0	796	29
Zinesto	Z1802E ↗	E3	1.8	NA	63.0	12.5	0	122.0	788	30
Dahlman	7218XF CK	RXF	1.8	NA	53.8	12.0	5	121.7	672	50
					Averages =	<b>63.9</b>	<b>12.2</b>	<b>1</b>	<b>122.6</b>	<b>798</b>
					LSD (0.10) =	7.5	0.4	ns		
					LSD (0.25) =	3.9	0.2	ns		
					C.V. =	11.1				
					Historic yield: new site					

*Mark Querna*

Mark Querna

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### Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$12.50

Report Date: 10/06/2021

† 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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Test by: Southern MN FIRST New Richland, MN

## 2021 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] WINTHROP, MN  
Jim Sallstrom, Sibley County, MN

<b>Full-Season Test</b>	1.9 - 2.2 Day CRM S2021MNSC06b
<b>Top 30 of 54</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Acuron, Glyphosate, Atrazine
<b>SOIL DESCRIPTION:</b>	Nicolet clay loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	very low P, low K, 7.6 pH, 4.9% OM, 29.6 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Authority First, Metribuzin, Flexstar, Cornerstone Plus, Section Three
<b>FERTILITY - Applied N:</b>	21 Spring
<b>Applied N-P-K (units):</b>	21-0-30
<b>SEEDED - RATE - ROW:</b>	May 7 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 5 122.5 /A

### TEST COMMENTS:

*Planting conditions were great, as 1 pass with vertical tillage in the fall, and a 2nd pass in the spring provided a good seedbed. The first vertical replication of both tests was on lower ground, and showed lower yields, possibly from white mold. Jim noted that very tall varieties were laying down in early Sept as a result of the excellent growing season. Jim also noted that Sibley County was not in a drought this year; rains came at the right time and were not excessive.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Hefty	H20X7 ↗	RRX	2.0	MR	<b>74.3</b>	12.4	5	122.5	929	1
Dyna-Gro	S21XF61 ↗	RXF	2.1	R	<b>72.1</b>	13.0	5	123.5	900	2
Anderson	A200E3 ↗	E3	2.0	NA	<b>71.0</b>	12.3	1	122.0	888	3
Innotech	IS2089E3 ↗	E3	2.0	MR	<b>70.8</b>	11.6	0	126.0	885	4
Anderson	217RXT ↗	RRX	2.0	MR	<b>69.8</b>	12.1	0	122.0	872	5
NK Brand	NK21-H4XF § ↗	RXF	2.1	MR	<b>69.7</b>	12.0	7	124.3	871	6
Asgrow	AG21XF0 § ↗	RXF	2.1	R	<b>69.2</b>	12.5	0	123.0	865	7
Golden Harvest	GH2292E3 ↗	E3	2.2	MR	67.0	11.8	1	123.3	838	9
Dairyland	DSR-2040E ↗	E3	2.0	R	66.6	11.8	1	123.0	832	10
Stine	21EE62 § ↗	E3	2.1	R	66.6	13.5	0	121.7	831	11
Hefty	H20XF1 ↗	RXF	2.0	NA	66.1	13.1	0	123.5	826	12
Hefty	H21XF2 ↗	RXF	2.1	NA	65.6	11.8	5	121.0	820	13
Dairyland	DSR-2030E ↗	E3	1.9	R	65.4	11.9	0	121.3	818	14
Dyna-Gro	S21EN81 ↗	E3	2.1	R	65.0	12.4	4	124.3	812	15
Apex	AE2110 ↗	E3	2.1	R	64.4	12.2	2	122.7	805	16
Dyna-Gro	S19EN21 ↗	E3	1.9	R	64.1	12.0	3	120.7	801	17
Xitavo	XO 2181E ↗	E3	2.1	R	64.0	11.9	0	124.3	800	18
Pioneer	P21A28X § ↗	RRX	2.1	R	63.9	11.9	0	124.3	799	19
Loyal	L2040E ↗	E3	2.0	R	63.7	13.2	7	121.3	796	20
Loyal	L2130E ↗	E3	2.1	R	63.5	12.3	6	122.7	794	21
Gold Country	2250XF ↗	RXF	2.2	R	63.3	13.0	0	122.3	791	22
Golden Harvest	GH2102XF ↗	RXF	2.1	MR	63.0	12.1	6	125.0	788	23
Loyal	L2240E ↗	E3	2.2	R	63.0	12.3	1	121.3	788	24
Dairyland	DSR-2112E ↗	E3	2.1	R	62.9	13.0	0	122.7	786	25
Latham	L 2283 XF ↗	RXF	2.2	R	62.8	13.0	2	123.3	785	26
Anderson	A2121XF ↗	RXF	2.0	NA	62.7	12.1	3	123.0	784	27
Federal	F2121N ↗	LLGT27	2.1	R	62.5	12.5	1	120.7	781	28
Renk	RS219NX ↗	RRX	2.1	R	62.4	12.0	0	123.3	780	29
Latham	L 2193 E3 ↗	E3	2.1	R	61.9	12.3	7	122.7	774	30
Latham	L 2184 R2X ↗	RRX	2.1	R	61.7	11.9	5	124.0	771	31
Dahlman	7218XF CK	RXF	1.8	NA	67.8	12.4	1	121.7	848	8
					Averages =	<b>62.7</b>	<b>12.4</b>	<b>2</b>	<b>122.5</b>	<b>784</b>
					LSD (0.10) =	5.8	0.6	ns		
					LSD (0.25) =	3.0	0.3	ns		
					C.V. =	8.8				
					Historic yield: new site					

*Mark Querna*

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### Yield & Income Factors:

Base Moisture = 13.0%    Shrink = 1.3    Drying = \$0.03    Prices: GMO = \$12.50

Report Date: 10/06/2021

† 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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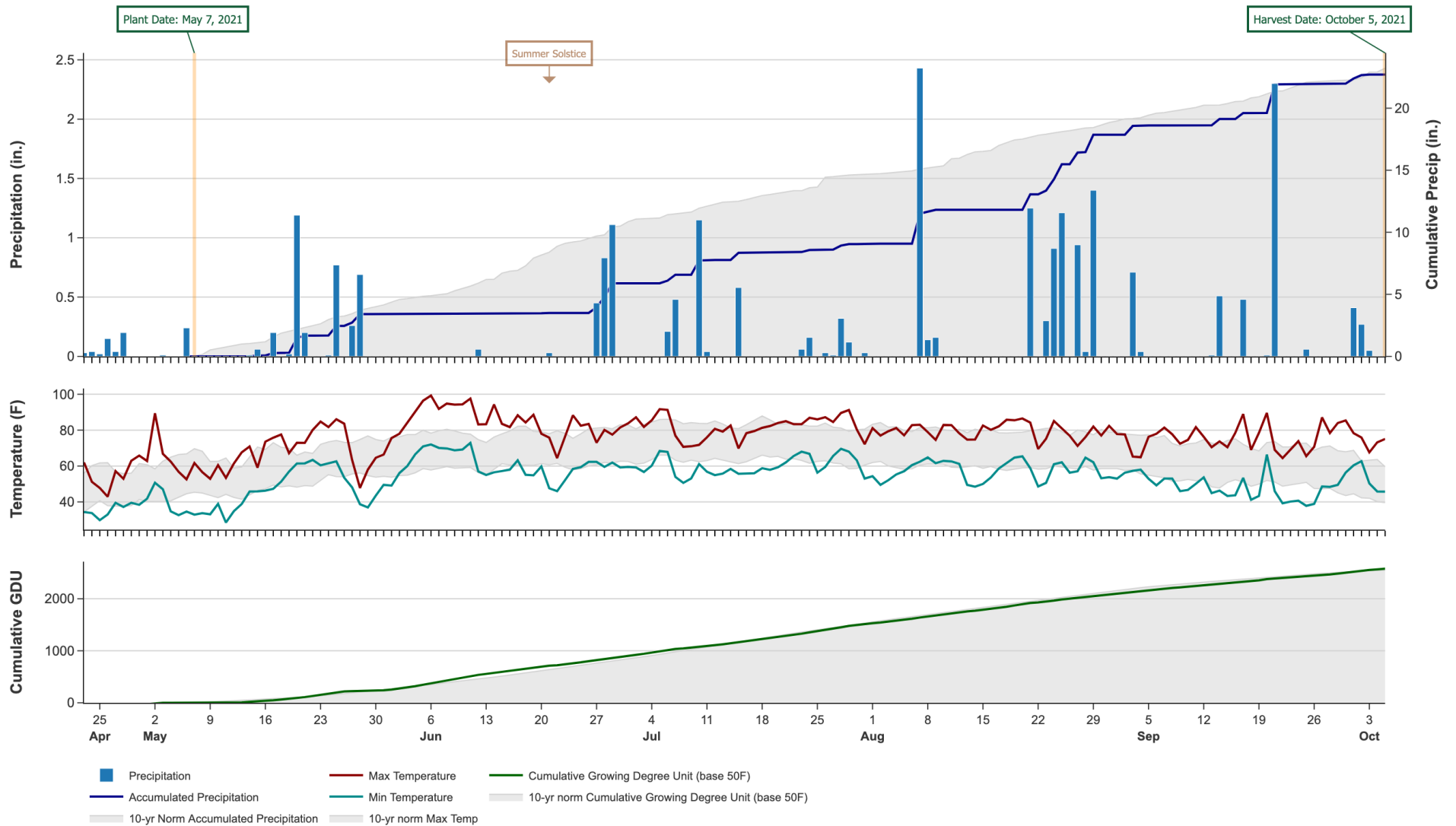
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# 2021 Soybeans - Minnesota South Central [ MNSC ]

## Weather Conditions Summary at WINTHROP, MN

Weather Data Retrieved: 10/06/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	0.5   1.2 (-0.7)	3.7   5.0 (-1.4)	2.5   6.3 (-3.9)	3.2   4.2 (-1.0)	8.8   4.2 (+4.6)	4.1   3.4 (+0.7)	0.7   1.0 (-0.3)	23.4   25.3 (-1.9)
GDU   Normal (Diff)	14   11 (+2)	273   296 (-23)	638   566 (+71)	635   714 (-79)	580   611 (-31)	413   376 (+36)	72   29 (+42)	2625   2605 (+19)



\* 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

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
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
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

\* 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 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

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
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
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

\* 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

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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.