

Test by: Southern MN FIRST New Richland, MN

2021 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] NEW RICHLAND, MN
Leon Schoenrock, Waseca County, MN 56072

Early-Season Test	1.6 - 1.9 Day CRM S2021MNSO03a
Top 30 of 53	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore, Roundup, Atrazine
SOIL DESCRIPTION:	Webster clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, high K, 5.4 pH, 4.4% OM, 30.1 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Roundup, Flexstar, Clethodim
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 6 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 123.2 /A

TEST COMMENTS:

Planting conditions were dry, but rainfall came at opportune dates for healthy growth. Cupping from Dicamba herbicide drift was found on June 26th. The hot, dry conditions caused volatilization and inversion of that herbicide here. No aphids, spider mites, or other pests were found here this year. Leon stated that the beans were exceptionally tall this year. Yields were quite good for the low amount of rainfall during this growing season. Due to dicamba damage and significant differences in yield between tolerant and non-tolerant varieties, the test results are not reported.

Company/Brand	Product/Brand	Yield	Moist	Shrink	Yield Bu/a	Moisture %	Linting %	Stand (x 1000)	Gross Income \$/Acre	Rank
Golden Harvest	GH18023 g +	68.7	13.2	1	123.2	839				1
Dynis-Gro	D17692 g +	67.2	13.2	1	123.2	839				2
Anderson	A18218 g +	67.2	13.2	1	123.2	839				3
Holly	H18021 g +	67.2	13.2	1	123.2	839				4
Argus	A18021 g +	67.2	13.2	1	123.2	839				5
Dynis-Gro	D18021 g +	67.2	13.2	1	123.2	839				6
Prostar	P18021 g +	67.2	13.2	1	123.2	839				7
Latham	L17692 g +	67.2	13.2	1	123.2	839				8
Holly	H18022 g +	67.2	13.2	1	123.2	839				9
Stax	S18021 g +	67.2	13.2	1	123.2	839				10
Dynis-Gro	D17692 g +	67.2	13.2	1	123.2	839				11
Holly	H17692 g +	67.2	13.2	1	123.2	839				12
Stax	S18022 g +	67.2	13.2	1	123.2	839				13
Mt Brand	M17692 g +	67.2	13.2	1	123.2	839				14
Mt Brand	M18022 g +	67.2	13.2	1	123.2	839				15
Golden Harvest	GH18023 g +	67.2	13.2	1	123.2	839				16
Crosby	C218021 g +	67.2	13.2	1	123.2	839				17
Anderson	A18021 g +	67.2	13.2	1	123.2	839				18
Federal	F18021 g +	67.2	13.2	1	123.2	839				19
Dynis-Gro	D18021 g +	67.2	13.2	1	123.2	839				20
Latham	L17692 g +	67.2	13.2	1	123.2	839				21
Dynis-Gro	D17692 g +	67.2	13.2	1	123.2	839				22
Federal	F18021 g +	67.2	13.2	1	123.2	839				23
Dynis-Gro	D18021 g +	67.2	13.2	1	123.2	839				24
Gold Country	G18021 g +	67.2	13.2	1	123.2	839				25
Agri	A18021 g +	67.2	13.2	1	123.2	839				26
Dynis-Gro	D18021 g +	67.2	13.2	1	123.2	839				27
Dynis-Gro	D17692 g +	67.2	13.2	1	123.2	839				28
Dynis-Gro	D17692 g +	67.2	13.2	1	123.2	839				29
Holly	H18022 g +	67.2	13.2	1	123.2	839				30

REJECTED

Mark Querna

Mark Querna

mark.querna@firstseedtests.com, (507) 380-9920

Averages =	67.2	13.2	1	123.2	839
LSD (0.10) =	4.7	0.4	ns		
LSD (0.25) =	2.5	0.2	ns		
C.V. =	6.7				
				Historic yield: 61.21 bu/a, 19 yr(s)	

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

Report Date: 10/07/2021

Additional reports available at 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

©2021, All rights reserved by Elite Field Genetics, LLC

Test by: Southern MN FIRST New Richland, MN

2021 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] NEW RICHLAND, MN
Leon Schoenrock, Waseca County, MN 56072

Full-Season Test	2.0 - 2.3 Day CRM S2021MNSO03b
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore, Roundup, Atrazine
SOIL DESCRIPTION:	Webster clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, high K, 5.4 pH, 4.4% OM, 30.1 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Roundup, Flexstar, Clethodim
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 6 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 123.2 /A

TEST COMMENTS:

Planting conditions were dry, but rainfall came at opportune dates for healthy growth. Cupping from Dicamba herbicide drift was found on June 26th. The hot, dry conditions caused volatilization and inversion of that herbicide here. No aphids, spider mites, or other pests were found here this year. Leon stated that the beans were exceptionally tall this year. Yields were quite good for the low amount of rainfall during this growing season. Due to dicamba damage and significant differences in yield between tolerant and non-tolerant varieties, the test results are not reported.

Company/Brand	Product/Brand	Yield †	Moisture %	Shrink	Yield Bu/A	Moisture %	Logging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Anderson	217667 +	NS	13.7	NS	79.2	13.7	1	123.0	802	1
Mt Brand	M22-C4E3 +	E3	13.3	NS	79.8	13.3	2	124.7	807	2
Golden Harvest	GH220E3 +	E3	13.1	NS	79.8	13.1	0	123.7	807	3
Pioneer	P22A158 GC +	NS	13.4	NS	79.8	13.4	0	124.7	807	4
Holly	H220F1 +	NS	13.7	NS	79.7	13.7	0	123.0	802	5
Federal	F220M +	NS	13.0	NS	79.7	13.0	0	123.3	802	6
Dyna-Gro	S219F1 +	NS	13.0	NS	79.7	13.0	0	123.3	802	7
Golden Harvest	GH21020F +	NS	12.8	NS	79.7	12.8	0	123.0	802	8
Agriva	A220F2 g +	NS	13.4	NS	79.7	13.4	0	123.3	802	9
Holly	H220F1 +	NS	13.0	NS	79.3	13.0	0	124.0	805	10
Drexel	Z220E2 +	E3, E7	14.0	NS	79.3	14.0	2	123.0	802	11
Deyland	DBA-2112E +	E7	13.0	NS	79.3	13.0	0	124.3	808	12
Agriva	A220F2 g +	NS	13.4	NS	79.1	13.4	0	122.7	801	13
Genesis	G219E2 +	E7	12.8	NS	79.1	12.8	0	123.3	801	14
Holly	H219F2 +	NS	13.0	NS	79.3	13.0	1	123.3	801	15
Anderson	A220E3 +	E3	13.0	NS	79.3	13.0	1	123.0	800	16
Latham	L-2190 E3 +	E3	12.8	NS	79.3	12.8	1	121.3	800	17
Latham	L-2200 R2K +	E3	12.8	NS	79.7	12.8	0	123.0	804	18
Dreyfus	D220F GC +	E3	13.0	NS	79.3	13.0	0	124.3	802	19
Genesis	G220E2 +	E3	14.0	NS	79.3	14.0	1	125.3	801	20
Drexel	Z220E2 +	E3	13.0	NS	79.3	13.0	0	123.3	800	21
Agri	A220E2 +	E3	13.4	NS	79.2	13.4	2	123.3	807	22
Pioneer	P21A220 +	NS	12.8	NS	79.0	12.8	2	123.7	805	23
Loyd	L220E2 +	E3	13.0	NS	79.4	13.0	2	122.7	807	24
Gold Country	G220F +	NS	13.3	NS	79.3	13.3	0	125.7	816	25
Federal	F221M +	NS	13.2	NS	79.1	13.2	1	123.7	813	26
Dyna-Gro	S219F1 +	E3	13.4	NS	79.9	13.4	1	123.3	810	27
Genesis	G219E2 +	E3	13.0	NS	79.7	13.0	1	123.7	808	28
Latham	L-2200 E3 +	E3	13.0	NS	79.6	13.0	0	123.3	807	29
Loyd	L219E2 +	E3	13.3	NS	79.3	13.3	1	123.7	808	30



 Mark Querna mark.querna@firstseedtests.com, (507) 380-9920	Averages =	64.6	13.3	1	123.2	807
	LSD (0.10) =	4.0	0.6	2		
	LSD (0.25) =	2.1	0.3	1		
	C.V. =	5.9				Historic yield: 61.21 bu/a, 19 yr(s)
Yield & Income Factors:	Base Moisture = 13.0%	Shrink = 1.3	Drying = \$0.03	Prices: GMO = \$12.50		

Report Date: 10/07/2021

† 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

Additional reports available at www.firstseedtests.com

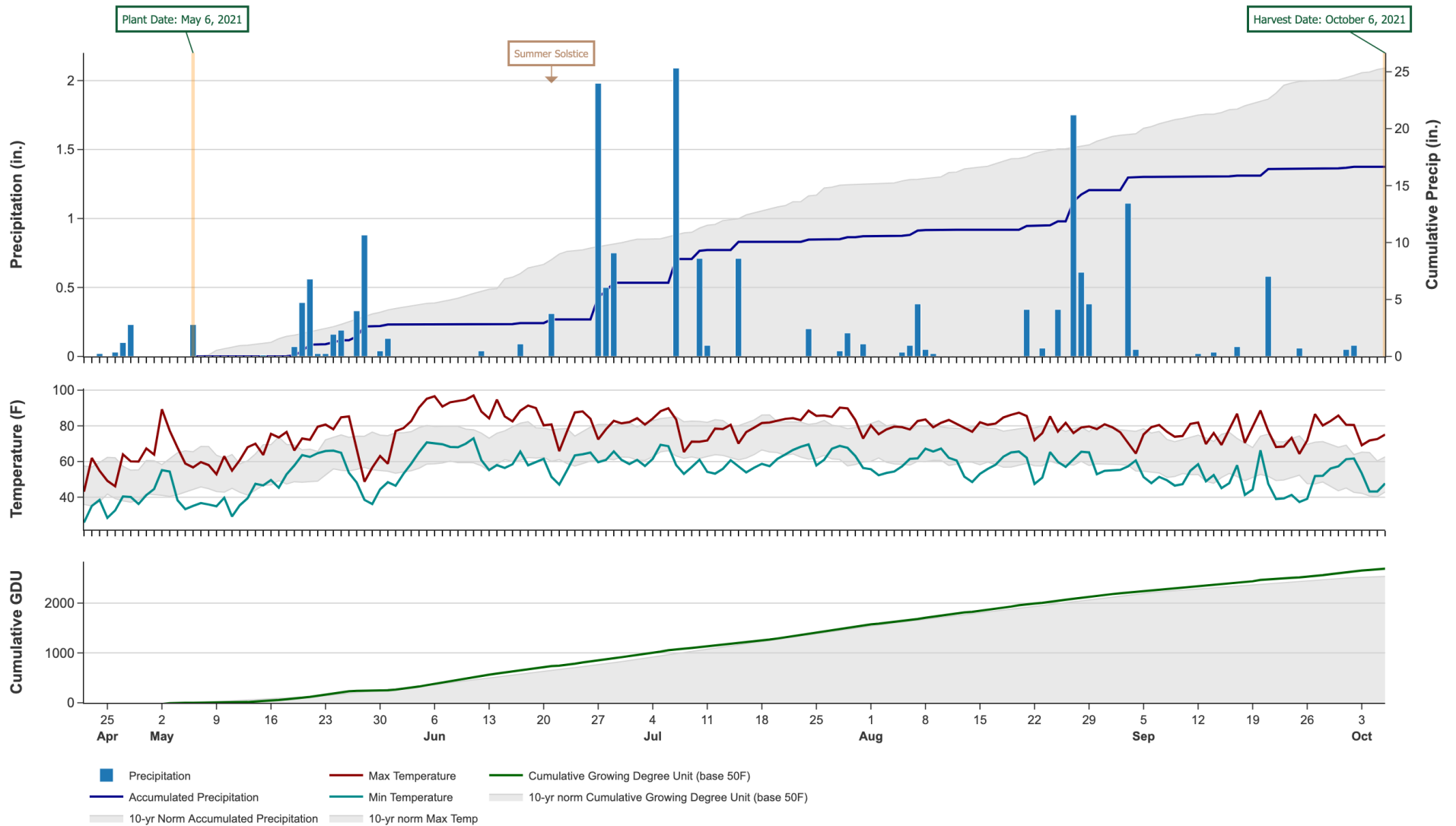
©2021, All rights reserved by Elite Field Genetics, LLC

2021 Soybeans - Minnesota South [MNSO]

Weather Conditions Summary at NEW RICHLAND, MN

Weather Data Retrieved: 10/07/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.4 1.2 (-0.8)	3.0 4.9 (-1.9)	3.7 5.9 (-2.2)	4.1 5.1 (-1.0)	4.0 4.0 (0.0)	1.9 5.2 (-3.3)	0.1 1.0 (-0.9)	17.3 27.4 (-10.1)
GDU Normal (Diff)	21 17 (+3)	302 296 (+5)	665 564 (+100)	641 691 (-50)	608 590 (+17)	437 384 (+52)	88 43 (+44)	2762 2588 (+173)



* 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

* 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

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
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

* Seed treatments may include unspecified plant health promoting components.