

Test by: Southern MN FIRST New Richland, MN

2022 Soybeans Top 30 Harvest Report

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

Early-Season Test	Maturity Group 1.6 - 1.9 S2022MNSO03a
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore, Round Up, Atrazine
SOIL DESCRIPTION:	Webster Clay Loam clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	high P, medium K, 7.2 pH, 4.7% OM, 26.4 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Round Up, Flexstar, Clethodim
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 14 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 125.9 /A

TEST COMMENTS:

Planting conditions were excellent on May 14. Beans had ample moisture for emergence, and avoided damaging weather all season. A dry period from June 1 to mid-July was followed by perfect rainfalls from mid-July to mid-Sept. Leon did not spray for aphid control, as numbers were 50-100 in late August. Some SDS did show up near maturity. Plant height was moderate. Great weather to finish the crop, although a frost did occur on Sept 29th.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z1802E ↗	E3	1.8	NA	76.3	13.1	0	122.7	1071	1
Loyal	L1740E ↗	E3	1.7	R	74.6	13.3	0	123.3	1047	2
Xitavo	XO 1822E ↗	E3	1.8	R	74.4	13.3	0	126.3	1044	3
Xitavo	XO 1632E ↗	E3	1.6	R	74.4	13.3	0	127.3	1044	4
Genesis	G1970E ↗	E3	1.9	R	74.0	13.4	0	125.3	1038	5
Xitavo	XO 1971E ↗	E3	1.9	R	73.8	13.1	0	124.3	1036	6
Golden Harvest	GH1802E3 § ↗	E3	1.8	R	73.6	12.8	0	127.3	1033	7
Asgrow	AG18XF1 § ↗	RXF	1.8	R	73.4	12.3	0	126.3	1031	8
Dyna-Gro	S16EN42 ↗	E3	1.6	R	73.4	13.6	0	126.0	1029	9
Latham	L 1648 LLGT27 ↗	LLGT27	1.6	R	73.1	13.1	0	124.3	1026	10
Asgrow	AG19XF3 § ↗	RXF	1.9	R	73.0	12.1	0	125.7	1025	11
Latham	L 1947 E3 ↗	E3	1.9	R	72.7	13.2	0	128.0	1020	12
Gold Country	1942XF ↗	RXF	1.9	R	72.5	12.4	0	125.3	1018	13
Gold Country	1841XF ↗	RXF	1.8	R	72.0	12.7	0	129.0	1011	15
Golden Harvest	GH1762XF § ↗	RXF	1.7	MR	71.6	12.9	0	126.3	1005	16
NuTech	19N03E ↗	E3	1.9	R	71.4	13.0	0	124.0	1002	17
Genesis	G1950E ↗	E3	1.9	R	71.0	12.9	0	125.3	997	18
Loyal	L1540E ↗	E3	1.5	R	70.9	13.4	0	127.7	995	19
Dyna-Gro	S19XF62 ↗	RXF	1.9	R	70.8	13.3	0	125.7	993	20
Stine	15EE32 § ↗	E3	1.5	R	70.3	13.4	0	124.3	986	21
Dairyland	DSR-1919E ↗	E3	1.9	R	70.3	13.3	0	126.7	986	22
Anderson	A1821XF ↗	RXF	1.8	NA	70.2	13.0	0	126.0	986	23
Zinesto	Z1902E ↗	E3	1.9	NA	70.0	12.9	0	125.3	983	24
Xitavo	XO 1761E ↗	E3	1.7	R	69.7	13.6	0	128.5	977	25
Zinesto	Z1702E ↗	E3	1.7	NA	69.0	13.2	0	126.3	968	26
Dairyland	DSR-1820E ↗	E3	1.8	R	68.8	12.5	0	127.7	966	27
Pioneer	P18A73E § ↗	E3	1.8	NA	67.8	12.9	0	125.3	952	28
Latham	L 1784 XF ↗	RXF	1.7	R	67.4	13.3	0	124.3	946	29
Titan Pro	TP 18E22 ↗	E3	1.8	R	67.3	12.8	0	124.7	945	30
NuTech	16N04E ↗	E3	1.6	R	67.3	13.1	0	127.7	945	31
DYNA-GRO	S18EN52 CK	E3	1.8	MR	72.4	12.9	0	128.3	1016	14
					Averages =	70.7	13.0	0	125.9	991
					LSD (0.10) =	3.6	0.4	ns		
					LSD (0.25) =	1.9	0.2	ns		
					C.V. =	4.8				
					Historic yield: 61.21 bu/a, 20 yr(s)					

Mark Querna

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Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$14.04

Report Date: 10/09/2022

† 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. ↗ Links to full product yield results at www.firstseedtests.com

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Full-Season Test	Maturity Group 2.0 - 2.3 S2022MNSO03b
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (3) Replications
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SOIL CONDITION:	high P, medium K, 7.2 pH, 4.7% OM, 26.4 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Round Up, Flexstar, Clethodim
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 14 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 125.6 /A

TEST COMMENTS:

Planting conditions were excellent on May 14. Beans had ample moisture for emergence, and avoided damaging weather all season. A dry period from June 1 to mid-July was followed by perfect rainfalls from mid-July to mid-Sept. Leon did not spray for aphid control, as numbers were 50-100 in late August. Some SDS did show up near maturity. Plant height was moderate. Great weather to finish the crop, although a frost did occur on Sept 29th.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Asgrow	AG22XF3 § ↗	RXF	2.2	R	77.2	13.3	0	125.0	1083	1
Genesis	G2270E ↗	E3	2.2	R	75.8	13.7	1	125.0	1063	2
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	75.6	12.6	0	125.7	1061	3
Xitavo	XO 2282E ↗	E3	2.2	R	75.3	13.4	0	126.3	1056	4
Pioneer	P21A53E § ↗	E3	2.1	NA	74.6	13.2	0	125.7	1047	5
Zinesto	Z2101E ↗	E3	2.1	R	72.8	13.6	1	127.0	1021	6
Asgrow	AG21XF2 § ↗	RXF	2.1	R	72.5	12.7	0	125.3	1018	7
Stine	23EE06 § ↗	E3	2.3	S	72.5	13.2	0	128.3	1017	8
Xitavo	XO 2323E ↗	E3	2.3	R	72.3	13.4	1	127.0	1014	9
Mustang	22E823 ↗	E3	2.2	R	72.2	13.4	0	126.7	1013	10
Zinesto	Z2101G ↗	LLGT27	2.1	R	72.2	13.5	0	125.7	1013	11
Latham	L 2283 XF ↗	RXF	2.2	R	72.1	13.9	0	126.0	1010	12
Pioneer	P20T64E § ↗	E3	2.0	R	72.0	13.3	0	126.3	1010	13
Dairyland	DSR-2188E ↗	E3	2.1	R	71.6	14.5	0	126.3	1002	14
Xitavo	XO 2181E ↗	E3	2.1	R	71.4	14.0	0	126.3	1000	15
Mustang	20E723 ↗	E3	2.0	R	71.4	14.4	0	124.7	999	16
Latham	L 2193 E3 ↗	E3	2.1	R	70.9	13.2	0	124.7	995	17
Titan Pro	TP 20E22 ↗	E3	2.0	R	70.3	14.6	0	126.3	984	19
Dyna-Gro	S21XF61 ↗	RXF	2.1	R	69.9	13.9	0	124.0	980	21
Dyna-Gro	S20EN92 ↗	E3	2.0	MR	69.9	13.1	0	126.0	981	20
Zinesto	Z2303E ↗	E3	2.3	R	69.6	13.0	0	124.3	977	22
Dairyland	DSR-2040E ↗	E3	2.0	R	69.6	13.6	0	124.3	976	23
Latham	L 2049 E3 ↗	E3	2.0	R	69.6	14.1	0	126.0	975	24
Stine	22EF23 § ↗	E3	2.2	R	68.9	13.9	0	124.0	966	25
Gold Country	2250XF ↗	RXF	2.2	R	68.5	13.8	0	124.3	960	26
Dairyland	DSR-2030E ↗	E3	2.0	R	68.3	13.6	0	126.0	958	27
Latham	L 2379 E3 ↗	E3	2.3	R	68.2	13.9	0	126.0	956	28
Genesis	G2150E ↗	E3	2.1	R	68.1	13.7	0	125.0	955	29
NuTech	21N07E ↗	E3	2.1	R	68.0	14.7	0	126.3	951	30
Loyal	L2350E ↗	E3	2.3	R	65.5	12.9	0	126.0	920	31
DYNA-GRO	S18EN52 CK	E3	1.8	MR	70.4	12.8	0	126.0	988	18
					Averages =	70.0	13.6	0	125.6	981
					LSD (0.10) =	4.4	0.4	ns		
					LSD (0.25) =	2.3	0.2	ns		
					C.V. =	5.9				
					Historic yield: 61.21 bu/a, 20 yr(s)					

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Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$14.04

Report Date: 10/09/2022

† 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. ↗ Links to full product yield results at www.firstseedtests.com

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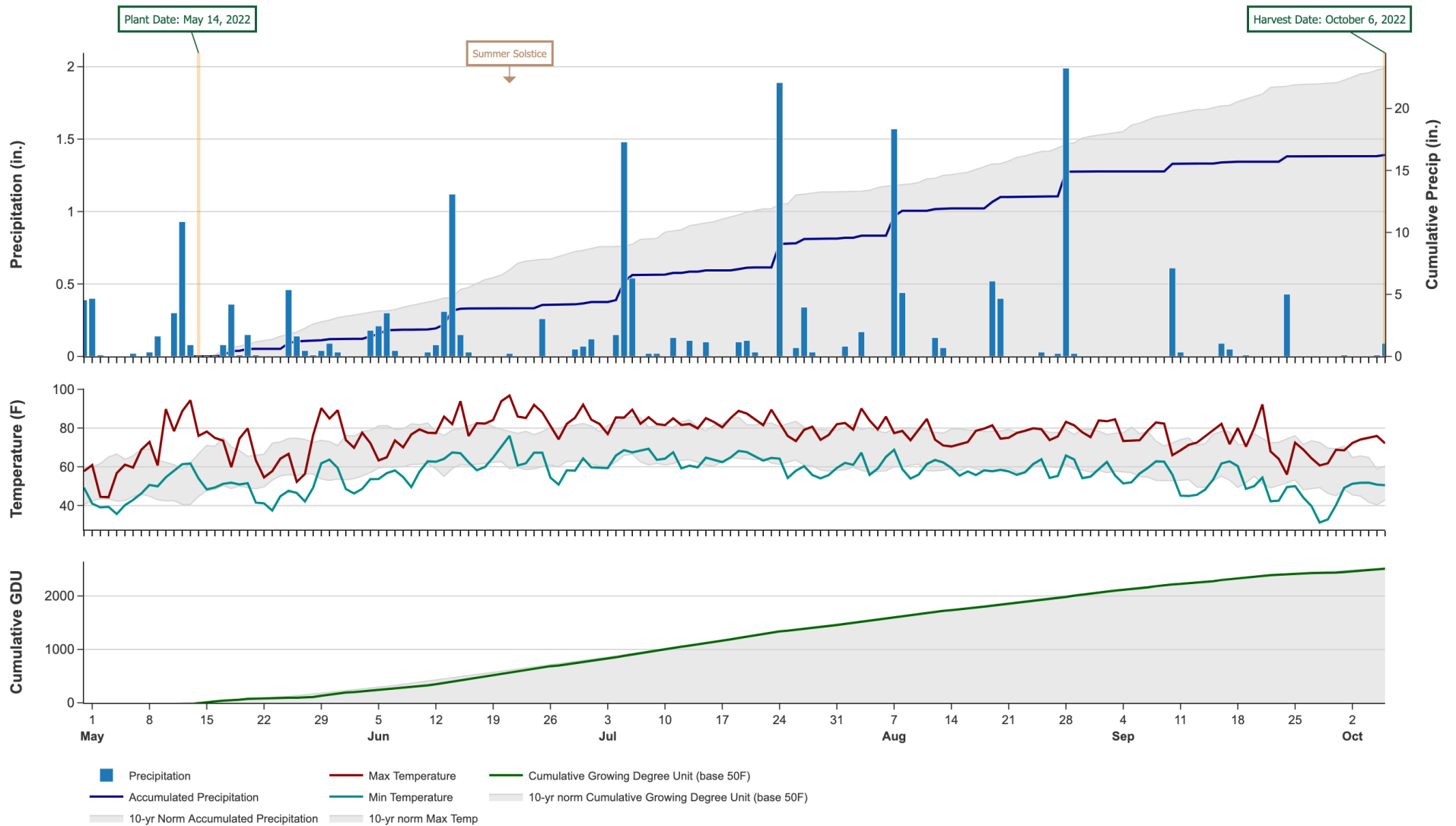
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2022 Soybeans - Minnesota South [MNSO]

Weather Conditions Summary at NEW RICHLAND, MN

Weather Data Retrieved: 10/09/2022

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.4 0.1 (+0.3)	3.3 4.9 (-1.6)	2.9 5.4 (-2.6)	5.2 4.7 (+0.5)	5.4 4.5 (+0.9)	1.2 4.3 (-3.1)	0.1 1.2 (-1.1)	18.6 25.1 (-6.6)
GDU Normal (Diff)	4 0 (+4)	322 295 (+26)	586 591 (-5)	690 679 (+10)	582 586 (-4)	401 410 (-9)	72 38 (+33)	2657 2600 (+56)



* 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.

2022 Soybeans - Minnesota South [MNSO]

Early-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	A1821XF	RXF	NA	1.8	Untreated
Asgrow	AG18XF1 §	RXF	R	1.8	ACi,IL
Asgrow	AG19XF3 §	RXF	R	1.9	ACi,IL
Dairyland	DSR-1673E	E3	R	1.6	Lum,Lu,IL
Dairyland	DSR-1820E	E3	R	1.8	Lum,Lu,IL
Dairyland	DSR-1919E	E3	R	1.9	Lum,Lu,IL
Dyna-Gro	S16EN42	E3	R	1.6	EQV,Sa,Va
Dyna-Gro	S18EN52 CK	E3	MR	1.8	EQV,Sa,Va
Dyna-Gro	S19XF62	RXF	R	1.9	EQV,Sa,Va
Genesis	G1950E	E3	R	1.9	EcTC,SA
Genesis	G1970E	E3	R	1.9	EcTC,SA
Gold Country	1841XF	RXF	R	1.8	ACi,IL
Gold Country	1942XF	RXF	R	1.9	ACi,IL
Golden Harvest	GH1762XF §	RXF	MR	1.7	CMBV,SA
Golden Harvest	GH1802E3 §	E3	R	1.8	CMBV,SA
Latham	L 1648 LLGT27	LLGT27	R	1.6	SS+,SA
Latham	L 1758 E3	E3	R	1.7	SS+,SA
Latham	L 1784 XF	RXF	R	1.7	SS+,SA
Latham	L 1947 E3	E3	R	1.9	SS+,SA
Loyal	L1540E	E3	R	1.5	NLSB
Loyal	L1740E	E3	R	1.7	NLSB
Loyal	L1950E	E3	R	1.9	NLSB
NuTech	16N04E	E3	R	1.6	Lum,Lu,IL
NuTech	19N03E	E3	R	1.9	Lum,Lu,IL
Pioneer	P18A73E §	E3	NA	1.8	Untreated
Stine	15EE32 §	E3	R	1.5	SFI
Stine	17EE32 §	E3	R	1.7	SFI
Titan Pro	TP 18E22	E3	R	1.8	SA,A,R,G
Xitavo	XO 1632E	E3	R	1.6	PV,IL,OB,Rey
Xitavo	XO 1761E	E3	R	1.7	PV,IL,OB,Rey
Xitavo	XO 1822E	E3	R	1.8	PV,IL,OB,Rey
Xitavo	XO 1971E	E3	R	1.9	PV,IL,OB,Rey
Zinesto	Z1603E	E3	R	1.6	DST4
Zinesto	Z1702E	E3	NA	1.7	DST4
Zinesto	Z1802E	E3	NA	1.8	DST4
Zinesto	Z1902E	E3	NA	1.9	DST4

2022 Soybeans - Minnesota South [MNSO]

Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	A2121XF	RXF	NA	2.0	Untreated
Asgrow	AG21XF2 §	RXF	R	2.1	ACi,IL
Asgrow	AG22XF3 §	RXF	R	2.2	ACi,IL
Dairyland	DSR-2030E	E3	R	2.0	Lum,Lu,IL
Dairyland	DSR-2040E	E3	R	2.0	Lum,Lu,IL
Dairyland	DSR-2188E	E3	R	2.1	Lum,Lu,IL
Dyna-Gro	S18EN52 CK	E3	MR	1.8	EQV,Sa,Va
Dyna-Gro	S20EN92	E3	MR	2.0	EQV,Sa,Va
Dyna-Gro	S21XF61	RXF	R	2.1	EQV,Sa,Va
Genesis	G2150E	E3	R	2.1	EcTC,SA
Genesis	G2270E	E3	R	2.2	EcTC,SA
Gold Country	2250XF	RXF	R	2.2	ACi,IL
Golden Harvest	GH2083E3S §	E3,ST	R	2.0	CMBV,SA
Golden Harvest	GH2292E3 §	E3	MR	2.2	CMBV,SA
Latham	L 2049 E3	E3	R	2.0	SS+,SA
Latham	L 2193 E3	E3	R	2.1	SS+,SA
Latham	L 2283 XF	RXF	R	2.2	SS+,SA
Latham	L 2379 E3	E3	R	2.3	SS+,SA
Loyal	L2250E	E3	R	2.2	NLSB
Loyal	L2350E	E3	R	2.3	NLSB
Mustang	20E723	E3	R	2.0	Treated
Mustang	22E823	E3	R	2.2	Treated
NuTech	21N07E	E3	R	2.1	Lum,Lu,IL
Pioneer	P20T64E §	E3	R	2.0	Lum,Lu,IL
Pioneer	P21A53E §	E3	NA	2.1	Lum,Lu,IL
Pioneer	P21T72E §	E3	R	2.1	Untreated
Stine	22EF23 §	E3	R	2.2	SFI
Stine	23EE06 §	E3	S	2.3	SFI
Titan Pro	TP 20E22	E3	R	2.0	SA,A,R,G
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB,Rey
Xitavo	XO 2282E	E3	R	2.2	PV,IL,OB,Rey
Xitavo	XO 2323E	E3	R	2.3	PV,IL,OB,Rey
Zinesto	Z2002E	E3	NA	2.0	DST4
Zinesto	Z2101E	E3	R	2.1	DST4
Zinesto	Z2101G	LLGT27	R	2.1	DST4
Zinesto	Z2303E	E3	R	2.3	DST4

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®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
CMBV,SA	Cruisermx® Beans, Vibrance®, Saltr®
DST4	Dominance 4 ST
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltr®
EQV,Sa,Va	Equity VIP, Saltr®, Vayantis
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
NLSB	NexLevel SB Elite and Marathon Extreme (Agri Partners)
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relyna®
SA,A,R,G	Saltr®, Allegiance FL, Redigo 480, Gaucho 600
SFI	Stine XP F&I
SS+,SA	SoyShield Plus, Saltr®
Treated	Treated, unspecified
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.