

Test by: Southern MN FIRST New Richland, MN

2022 Soybeans Top 30 Harvest Report

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

Early-Season Test	Maturity Group 1.6 - 1.9 S2022MNSO02a
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore, Glyphosate
SOIL DESCRIPTION:	Canisteo-Glencoe Complex loam, mod. well drained, non- irrigated
SOIL CONDITION:	very high P, very high K, 5.5 pH, 4.5% OM, 24.7 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Authority First, Liberty, Clethodim
Applied N-P-K (units):	0-0-0
SEDED - RATE - ROW:	May 29 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 10 126.9 /A

TEST COMMENTS:

A cool April was followed by several light rains in May that delayed planting. The weather over the summer was warm and sunny, with just enough rainfall to move the beans along. When I asked Dru what his thoughts were on the soybean growing season, he replied "Dry!" Rains never came in excess, although this site received a bit more rain than some other farms nearby. The FIRST plot was located here in 2020 and posted 80 bpa yields. The beans were healthy at harvest, and disease and pest pressure were minimal this year. The full-season test was rejected due to high variance possibly from drought stress.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Dyna-Gro	S16EN42 ↗	E3	1.6	R	74.1	9.7	0	125.3	1040	1
Stine	17EE32 § ↗	E3	1.7	R	73.9	9.7	0	126.3	1038	2
Xitavo	XO 1822E ↗	E3	1.8	R	73.4	9.8	0	127.0	1031	3
Gold Country	1841XF ↗	RXF	1.8	R	73.4	9.6	2	126.0	1031	4
Golden Harvest	GH1762XF § ↗	RXF	1.7	MR	73.3	9.6	0	125.7	1029	5
Latham	L 1648 LLGT27 ↗	LLGT27	1.6	R	73.2	9.8	0	125.7	1028	6
Zinesto	Z1702E ↗	E3	1.7	NA	73.0	9.8	0	126.3	1025	7
Dyna-Gro	S19XF62 ↗	RXF	1.9	R	72.9	9.6	0	128.0	1024	8
Latham	L 1947 E3 ↗	E3	1.9	R	72.2	10.0	0	128.3	1014	9
Stine	15EE32 § ↗	E3	1.5	R	71.9	9.7	0	124.7	1009	10
Loyal	L1740E ↗	E3	1.7	R	71.6	9.8	0	127.7	1005	11
Asgrow	AG18XF1 § ↗	RXF	1.8	R	71.5	9.6	0	127.0	1004	12
Loyal	L1540E ↗	E3	1.5	R	71.1	10.0	0	129.0	998	13
Asgrow	AG19XF3 § ↗	RXF	1.9	R	71.1	9.5	0	127.0	998	14
Genesis	G1970E ↗	E3	1.9	R	70.9	10.0	0	127.3	995	15
NuTech	19N03E ↗	E3	1.9	R	70.5	9.5	0	125.0	990	16
Titan Pro	TP 18E22 ↗	E3	1.8	R	70.1	9.7	0	128.0	984	17
Genesis	G1950E ↗	E3	1.9	R	69.7	9.3	0	128.3	979	18
Latham	L 1784 XF ↗	RXF	1.7	R	69.7	9.6	0	127.3	979	19
Zinesto	Z1902E ↗	E3	1.9	NA	69.2	9.7	0	128.0	972	20
Xitavo	XO 1632E ↗	E3	1.6	R	69.2	9.9	0	125.3	972	21
Dairyland	DSR-1820E ↗	E3	1.8	R	68.5	9.3	0	126.0	962	22
Dairyland	DSR-1919E ↗	E3	1.9	R	68.3	9.6	0	127.0	959	23
Zinesto	Z1802E ↗	E3	1.8	NA	67.2	10.0	0	128.3	943	24
Zinesto	Z1603E ↗	E3	1.6	R	67.0	9.2	0	126.0	941	25
Xitavo	XO 1971E ↗	E3	1.9	R	65.8	9.3	0	128.3	924	27
Pioneer	P18A73E § ↗	E3	1.8	NA	65.4	9.4	0	125.0	918	28
Gold Country	1942XF ↗	RXF	1.9	R	64.8	9.5	0	128.3	910	29
Golden Harvest	GH1802E3 § ↗	E3	1.8	R	64.6	9.6	0	127.3	907	30
NuTech	16N04E ↗	E3	1.6	R	64.4	9.5	0	124.7	904	31
DYNA-GRO	S18EN52 CK	E3	1.8	MR	65.8	10.6	0	128.0	924	26
					Averages =	68.9	9.7	0	126.9	967
					LSD (0.10) =	4.0	0.4	0		
					LSD (0.25) =	2.1	0.2	0		
					C.V. =	5.6				
					Historic yield: 57.44 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: 10/11/2022

† 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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Top 30 of 36	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore, Glyphosate
SOIL DESCRIPTION:	Canisteo-Glencoe Complex loam, mod. well drained, non- irrigated
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TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Authority First, Liberty, Clethodim
Applied N-P-K (units):	0-0-0
SEDED - RATE - ROW:	May 29 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 10 126.9 /A

TEST COMMENTS:

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Company/Brand	Product/Brand	Yield †	Mo	SH Resist.	Yield Bu/A †	Moisture %	lodging %	Stand (x 1000)	Gross Income \$/A	Rank
Agrium	AG21492 g -	66P	2.1	R	74.8	10.2	0	124.3	1046	1
Genesee	622748 -	63	2.2	R	75.1	10.1	0	126.7	1026	2
Alamo	6021492 -	63	2.1	R	72.6	9.8	0	124.7	1019	3
Loyal	L22888 -	63	2.3	R	72.6	9.9	1	126.7	1018	4
Pharos	PH14028 g -	63	2.1	NA	72.3	9.8	0	126.7	1016	5
Latham	L 2264 63 -	63	2.0	R	72.3	9.8	0	127.0	1009	6
Genesee	621488 -	63	2.1	R	72.3	9.8	0	126.7	999	7
Zeevis	Z22888 -	63	2.0	R	72.3	9.8	0	126.7	998	8
Latham	L 2280 6P -	66P	2.2	R	72.7	10.1	0	126.7	993	9
Steele	228723 g -	63	2.1	R	70.3	9.7	0	126.3	987	10
Loyal	L22888 -	63	2.3	R	70.3	10.1	4	126.0	987	11
Dura-Gro	6214921 -	63	2.1	R	70.3	10.2	0	126.3	987	12
Yield Pro	YP 22822 -	63	2.3	R	70.2	10.0	0	126.0	986	13
Steele	228338 g -	63	2.3	R	70.2	10.2	0	127.3	981	14
Zeevis	Z21492 -	63	2.1	R	69.9	9.9	0	127.7	981	15
East Country	228247 -	66P	2.1	R	69.8	10.7	0	126.7	980	16
Musking	228723 -	63	2.2	R	69.4	9.9	0	126.7	974	17
Danland	6042488 -	63	2.1	R	69.3	9.8	0	127.0	967	18
Latham	L 2148 63 -	63	2.1	R	68.8	9.7	0	126.0	966	19
McRae	214876	63	2.1	R	68.7	10.0	0	127.3	965	20
Pharos	PH14028 -	63	2.0	R	67.8	9.8	4	126.7	962	21
Alamo	6021492 -	63	2.3	R	67.8	10.3	2	126.3	962	22
Danland	6042488 -	63	2.0	R	67.7	9.7	0	126.3	961	23
Danland	60421488 -	63	2.1	R	67.7	10.0	0	127.0	961	24
Pharos	PH11728 g -	63	2.1	R	67.7	9.3	0	127.7	961	25
Latham	L 2274 63 -	63	2.3	R	67.6	9.7	0	126.0	960	26
Musking	228623 -	63	2.2	R	67.5	9.9	0	124.7	948	27
Zeevis	Z22888 -	63	2.3	R	67.5	9.9	0	126.0	948	28
Dura-Gro	6227482 -	63	2.0	NA	67.4	9.3	0	126.0	948	29
Zeevis	Z21492 -	L2272P	2.1	R	67.4	9.9	0	127.3	948	30

REJECTED

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Averages = **69.2** **9.9** **1** **126.9** **971**
 LSD (0.10) = ns 0.2 2
 LSD (0.25) = ns 0.1 1

C.V. = 5.0

Historic yield: 57.44 bu/a, 20 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$14.04

Report Date: 10/11/2022

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

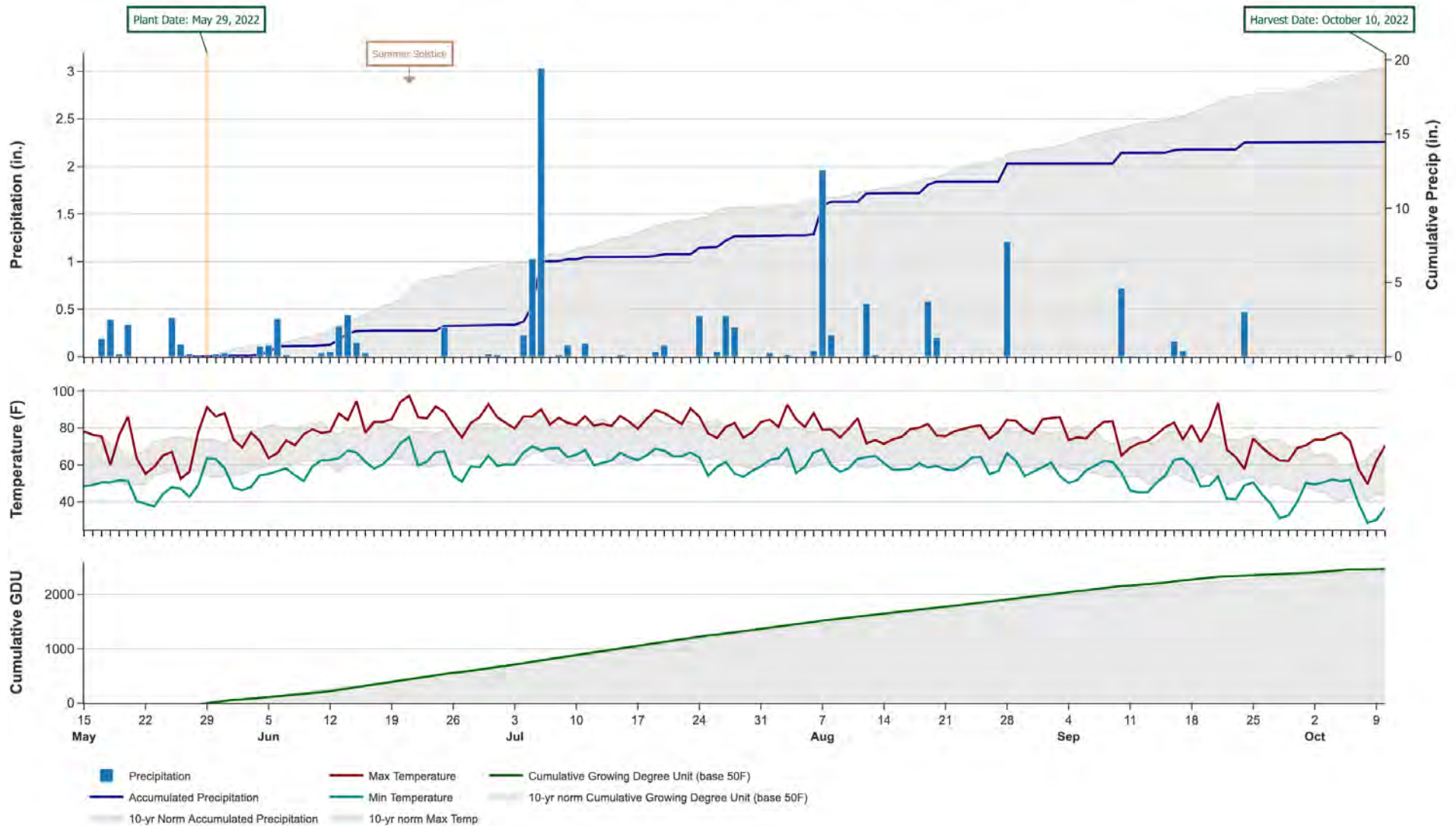
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2022 Soybeans - Minnesota South [MNSO]

Weather Conditions Summary at EASTON, MN

Weather Data Retrieved: 10/11/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	1.6 2.9 (-1.3)	2.0 5.8 (-3.7)	6.0 4.0 (+2.0)	4.9 3.9 (+1.0)	1.4 3.9 (-2.5)	0.0 1.6 (-1.5)	16.0 22.1 (-6.1)
GDU Normal (Diff)	186 209 (-23)	594 606 (-12)	712 694 (+17)	617 607 (+9)	412 423 (-11)	85 68 (+16)	2606 2609 (-3)



* 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	Cruisermass® Beans, Vibrance®, Salstro®
DST4	Dominance 4 ST
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Salstro®
EQV,Sa,Va	Equity VIP, Salstro®, 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, Relenya®
SA,A,R,G	Salstro, Allegiance FL, Redigo 480, Gaucho 600
SFI	Stine XP F&I
SS+,SA	SoyShield Plus, Salstro®
Treated	Treated, unspecified
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.