

Test by: Southern MN FIRST New Richland, MN

## 2022 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] KASSON, MN  
Brian Herbst, Dodge County, MN 55944

<b>Early-Season Test</b>	Maturity Group 1.6 - 1.9 S2022MNSO04a
<b>Top 30 of 36</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Laudis And Atrazine Early Post
<b>SOIL DESCRIPTION:</b>	Tripoli Clay Loam clay loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, high K, 7.5 pH, 4.2% OM, 22.4 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Post: Liberty, Warrant, Harrass; Clethodim, Mirivous Neo
<b>FERTILITY - Applied N:</b>	15# Sulfur, 8 oz Boron, 32 oz Manganese, 32 oz K
<b>Applied N-P-K (units):</b>	0-54-105
<b>SEEDED - RATE - ROW:</b>	May 15 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 7 125.8 /A

### TEST COMMENTS:

April temperatures were very cold (7.4 degrees below avg.), and planting was more delayed than last year. Brian believes seed treatments helped beans get a better start in the cool conditions. July was fairly hot and dry until the rain on July 23rd. After that, rainfall was just right through harvest. Brian will DNA-profile the soils on his farms to learn more about combatting the pests that rob yields on his fields. The plot was planted 2 weeks later than his surrounding field, and Brian noted the early planting averaged 8 bpa more than the FIRST plot did. Measured rainfalls were: Apr—4.57", May—3", June—3.11", July—3.11", Aug—5", Sept—1.01".

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
NuTech	19N03E ↗	E3	1.9	R	<b>74.1</b>	11.9	0	125.3	1040	1
Titan Pro	TP 18E22 ↗	E3	1.8	R	<b>73.7</b>	12.1	0	127.0	1035	2
Genesis	G1970E ↗	E3	1.9	R	<b>71.7</b>	11.9	0	127.0	1007	3
Xitavo	XO 1822E ↗	E3	1.8	R	<b>70.6</b>	12.6	0	126.7	991	4
Dairyland	DSR-1919E ↗	E3	1.9	R	<b>70.4</b>	12.2	0	125.3	988	5
Asgrow	AG19XF3 § ↗	RXF	1.9	R	<b>68.9</b>	11.8	0	124.7	967	6
Latham	L 1947 E3 ↗	E3	1.9	R	<b>68.7</b>	11.7	0	125.7	965	7
Gold Country	1841XF ↗	RXF	1.8	R	<b>67.5</b>	11.5	0	127.7	948	8
Loyal	L1950E ↗	E3	1.9	R	<b>66.4</b>	12.1	0	124.7	932	9
Loyal	L1740E ↗	E3	1.7	R	<b>65.4</b>	12.2	0	126.3	918	10
Pioneer	P18A73E § ↗	E3	1.8	NA	<b>65.0</b>	11.9	0	126.7	913	11
Dyna-Gro	S16EN42 ↗	E3	1.6	R	<b>64.8</b>	12.2	0	125.0	910	12
Asgrow	AG18XF1 § ↗	RXF	1.8	R	<b>64.7</b>	12.7	0	126.3	908	13
Zinesto	Z1802E ↗	E3	1.8	NA	<b>64.3</b>	11.6	0	125.0	903	14
Xitavo	XO 1971E ↗	E3	1.9	R	<b>63.9</b>	11.5	0	126.3	897	15
Xitavo	XO 1632E ↗	E3	1.6	R	<b>63.1</b>	12.6	0	125.7	886	16
Stine	17EE32 § ↗	E3	1.7	R	<b>63.1</b>	12.4	0	125.0	886	17
Zinesto	Z1902E ↗	E3	1.9	NA	<b>63.0</b>	12.2	0	124.3	885	18
Golden Harvest	GH1802E3 § ↗	E3	1.8	R	<b>61.7</b>	11.7	0	125.0	866	20
Latham	L 1648 LLGT27 ↗	LLGT27	1.6	R	<b>61.4</b>	12.8	0	125.7	862	21
Zinesto	Z1702E ↗	E3	1.7	NA	<b>61.0</b>	12.4	0	125.7	856	22
Genesis	G1950E ↗	E3	1.9	R	<b>60.8</b>	11.6	0	126.7	854	23
Stine	15EE32 § ↗	E3	1.5	R	<b>60.2</b>	12.8	0	124.7	845	24
NuTech	16N04E ↗	E3	1.6	R	<b>60.1</b>	12.2	0	126.7	844	25
Dyna-Gro	S19XF62 ↗	RXF	1.9	R	<b>60.1</b>	12.4	0	125.7	844	26
Golden Harvest	GH1762XF § ↗	RXF	1.7	MR	<b>58.5</b>	12.0	0	126.0	821	27
Latham	L 1784 XF ↗	RXF	1.7	R	<b>58.1</b>	12.6	0	127.0	816	28
Loyal	L1540E ↗	E3	1.5	R	<b>57.8</b>	12.5	0	125.0	812	29
Gold Country	1942XF ↗	RXF	1.9	R	<b>57.4</b>	12.3	0	124.7	806	30
Dairyland	DSR-1820E ↗	E3	1.8	R	<b>56.7</b>	12.0	0	125.7	796	31
<b>DYNA-GRO</b>	<b>S18EN52 CK</b>	<b>E3</b>	<b>1.8</b>	<b>MR</b>	<b>61.9</b>	<b>11.9</b>	<b>0</b>	<b>127.7</b>	<b>869</b>	<b>19</b>
					<b>Averages =</b>	<b>62.7</b>	<b>12.1</b>		<b>125.8</b>	<b>879</b>
					LSD (0.10) =	3.4	0.6	ns		
					LSD (0.25) =	1.8	0.3	ns		
					C.V. =	5.1				
					Historic yield: 59.62 bu/a, 20 yr(s)					

*Mark Querna*

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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Test by: Southern MN FIRST New Richland, MN

## 2022 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] KASSON, MN  
Brian Herbst, Dodge County, MN 55944

<b>Full-Season Test</b>	Maturity Group <b>2.0 - 2.3</b> S2022MNSO04b
<b>Top 30 of 36</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Laudis And Atrazine Early Post
<b>SOIL DESCRIPTION:</b>	Tripoli Clay Loam clay loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, high K, 7.5 pH, 4.2% OM, 22.4 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Post: Liberty, Warrant, Harrass; Clethodim, Mirivous Neo
<b>FERTILITY - Applied N:</b>	15# Sulfur, 8 oz Boron, 32 oz Manganese, 32 oz K
<b>Applied N-P-K (units):</b>	0-54-105
<b>SEEDED - RATE - ROW:</b>	May 15 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 7 125.7 /A

### TEST COMMENTS:

April temperatures were very cold (7.4 degrees below avg.), and planting was more delayed than last year. Brian believes seed treatments helped beans get a better start in the cool conditions. July was fairly hot and dry until the rain on July 23rd. After that, rainfall was just right through harvest. Brian will DNA-profile the soils on his farms to learn more about combatting the pests that rob yields on his fields. The plot was planted 2 weeks later than his surrounding field, and Brian noted the early planting averaged 8 bpa more than the FIRST plot did. Measured rainfalls were: Apr—4.57", May—3", June—3.11", July—3.11", Aug—5", Sept—1.01".

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Pioneer	P21A53E § ↗	E3	2.1	NA	<b>72.2</b>	11.6	0	126.0	1014	1
Asgrow	AG22XF3 § ↗	RXF	2.2	R	<b>71.3</b>	11.8	0	125.3	1001	2
Dairyland	DSR-2188E ↗	E3	2.1	R	<b>71.1</b>	12.4	0	125.7	998	3
Zinesto	Z2002E ↗	E3	2.0	NA	<b>70.9</b>	12.2	0	123.7	995	4
Asgrow	AG21XF2 § ↗	RXF	2.1	R	<b>70.1</b>	11.6	0	126.0	984	5
NuTech	21N07E ↗	E3	2.1	R	<b>69.7</b>	12.1	0	125.3	979	6
Dyna-Gro	S20EN92 ↗	E3	2.0	MR	68.8	12.1	0	127.3	966	7
Stine	22EF23 § ↗	E3	2.2	R	68.8	11.7	0	123.0	966	8
Titan Pro	TP 20E22 ↗	E3	2.0	R	68.7	12.1	0	124.3	965	9
Anderson	A2121XF ↗	RXF	2.0	NA	68.6	11.8	0	126.3	963	10
Xitavo	XO 2323E ↗	E3	2.3	R	68.4	12.1	0	124.7	960	11
Genesis	G2270E ↗	E3	2.2	R	68.3	12.0	0	128.7	959	12
Mustang	20E723 ↗	E3	2.0	R	68.2	12.1	0	125.3	958	13
Xitavo	XO 2282E ↗	E3	2.2	R	68.0	11.5	0	125.3	955	14
Loyal	L2250E ↗	E3	2.2	R	67.3	12.1	0	129.3	945	15
Stine	23EE06 § ↗	E3	2.3	S	67.1	12.5	0	126.7	942	16
Loyal	L2350E ↗	E3	2.3	R	66.8	11.9	0	126.3	938	17
Zinesto	Z2303E ↗	E3	2.3	R	66.0	11.8	0	125.7	927	19
Latham	L 2379 E3 ↗	E3	2.3	R	66.0	12.6	0	126.7	927	20
Latham	L 2193 E3 ↗	E3	2.1	R	65.6	11.9	0	124.7	921	21
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	64.9	11.5	0	126.3	911	22
Genesis	G2150E ↗	E3	2.1	R	64.5	12.1	0	126.0	906	23
Xitavo	XO 2181E ↗	E3	2.1	R	64.4	12.2	0	126.7	904	24
Gold Country	2250XF ↗	RXF	2.2	R	64.1	12.7	0	124.3	900	25
Latham	L 2049 E3 ↗	E3	2.0	R	63.7	12.4	0	124.7	894	26
Dairyland	DSR-2040E ↗	E3	2.0	R	63.0	11.9	0	126.0	885	27
Pioneer	P20T64E § ↗	E3	2.0	R	62.2	12.2	0	128.3	873	28
Dairyland	DSR-2030E ↗	E3	2.0	R	62.0	12.0	0	125.0	870	29
Golden Harvest	GH2083E3S § ↗	E3,ST	2.0	R	61.8	12.0	0	125.3	868	30
Zinesto	Z2101E ↗	E3	2.1	R	61.4	12.3	0	125.7	862	31
<b>DYNA-GRO</b>	<b>S18EN52 CK</b>	<b>E3</b>	<b>1.8</b>	<b>MR</b>	<b>66.1</b>	<b>12.0</b>	<b>0</b>	<b>125.7</b>	<b>928</b>	<b>18</b>
					<b>Averages =</b>	<b>65.5</b>	<b>12.1</b>	<b>125.7</b>	<b>919</b>	
					LSD (0.10) =	3.8	ns	ns		
					LSD (0.25) =	2.0	ns	ns		
					C.V. =	5.5				
					Historic yield: 59.62 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

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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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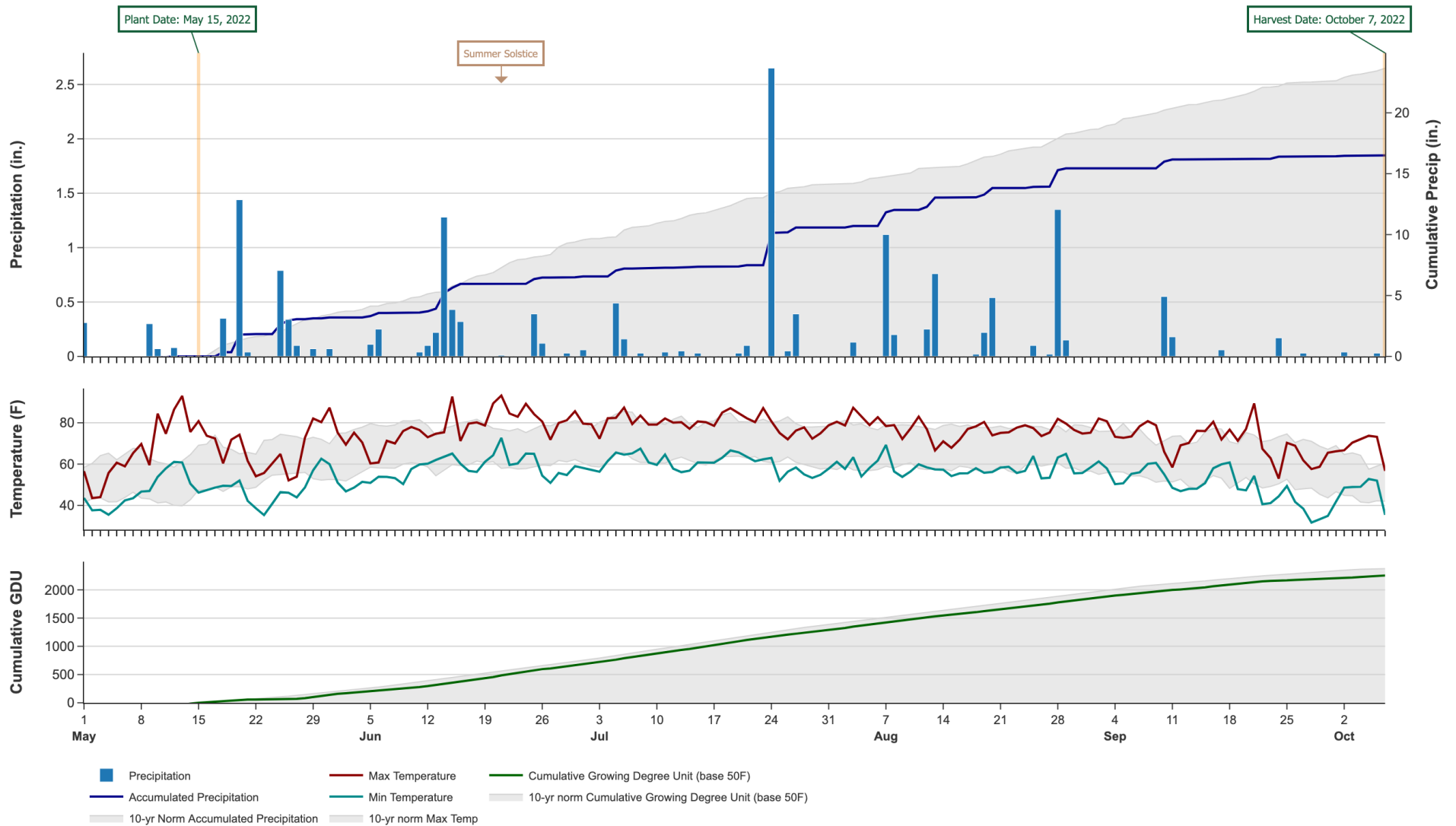
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# 2022 Soybeans - Minnesota South [ MNSO ]

## Weather Conditions Summary at KASSON, MN

Weather Data Retrieved: 10/09/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	4.0   5.7 (-1.7)	3.3   6.0 (-2.7)	4.1   4.8 (-0.7)	4.9   4.3 (+0.5)	1.0   4.1 (-3.1)	0.1   1.1 (-1.0)	17.3   25.9 (-8.6)
GDU   Normal (Diff)	287   271 (+15)	520   552 (-32)	620   653 (-33)	544   563 (-19)	360   381 (-21)	64   41 (+22)	2395   2465 (-70)



\* 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

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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®
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®, 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

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\* Seed treatments may include unspecified plant health promoting components.