

Test by: Southern MN FIRST New Richland, MN

2022 Soybeans Top 30 Harvest Report

Minnesota South Central [MNCS] WABASSO, MN
Leon Plaetz, Redwood County, MN 56293

Early-Season Test	Maturity Group 1.5 - 1.8 S2022MNCS05a
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (2) Replications
PREV. CROP/HERB:	Corn / Triple Flex, Roundup, Callistro, Atrazine
SOIL DESCRIPTION:	Okoboji silty clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 7.0 pH, 5.5% OM, 24.5 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Zidua Pro, Roundup, Liberty, Priaxor, Indigo
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 24 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 15 126.4 /A

TEST COMMENTS:

Light rains delayed planting here, but June through July 15 saw little rainfall. Leon states that the rest of the summer saw fairly normal weather. Yields in the field surrounding the plot averaged about 60 bpa, and the plants in the plot showed good health, good height, and no lodging. Again, just a few small rains at certain locations can add a lot to yields. Leon is correct in saying that "seed genetics have come a long way" in the past several years. Due to a seeding overlap, one replicate was removed from the analysis.

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	70.4	10.8	0	126.0	988	1
Loyal	L1740E GC ↗	E3	1.7	R	69.7	10.8	0	128.0	979	2
Latham	L 1558 E3 ↗	E3	1.5	R	69.5	10.4	0	125.5	976	3
Loyal	L1540E GC ↗	E3	1.5	R	68.8	11.0	0	127.0	966	4
Apex	AE1520 GC ↗	E3	1.5	R	68.7	10.9	0	126.0	965	5
Titan Pro	TP 18E22 ↗	E3	1.8	R	68.5	10.5	0	126.5	962	6
Gold Country	1841XF ↗	RXF	1.8	R	68.1	9.6	0	126.0	955	7
Stine	15EE32 § ↗	E3	1.5	R	68.0	10.4	0	125.5	955	8
Apex	AE1630 GC ↗	E3	1.6	R	67.8	10.8	0	127.0	952	9
Xitavo	XO 1632E ↗	E3	1.6	R	67.5	10.4	0	126.5	948	10
Stine	17EE32 § ↗	E3	1.7	R	67.1	10.4	0	126.0	942	11
Anderson	A172E3 ↗	E3	1.7	MR	66.5	10.4	0	127.0	934	12
Asgrow	AG18XF1 § ↗	RXF	1.8	R	66.4	10.3	0	127.5	931	13
Zinesto	Z1702E ↗	E3	1.7	NA	66.2	10.6	0	126.5	929	14
Asgrow	AG15XF2 § ↗	RXF	1.5	R	66.2	10.3	0	126.0	929	15
Federal	F1830N GC ↗	RXF	1.8	NA	65.9	10.3	0	125.5	925	16
Zinesto	Z1502E ↗	E3	1.5	NA	65.9	10.5	0	127.5	925	17
Zinesto	Z1802E ↗	E3	1.8	NA	65.4	10.0	0	125.5	917	18
Xitavo	XO 1822E ↗	E3	1.8	R	65.4	10.5	0	125.0	917	19
Anderson	A151E3 ↗	E3	1.5	NA	64.4	10.6	0	126.5	904	20
Latham	L 1648 LLGT27 ↗	LLGT27	1.6	R	64.2	10.3	0	126.0	901	21
Golden Harvest	GH1802E3 § ↗	E3	1.8	R	64.0	10.2	0	128.0	899	22
Latham	L 1784 XF ↗	RXF	1.7	R	63.9	9.9	0	129.0	897	23
Pioneer	P18A73E § ↗	E3	1.8	NA	63.8	10.2	0	127.0	896	24
Golden Harvest	GH1762XF § ↗	RXF	1.7	MR	63.6	10.5	0	127.5	893	25
Dyna-Gro	S17XF02 ↗	RXF	1.7	MR	63.2	10.6	0	125.5	887	26
Anderson	A182E3 ↗	E3	1.8	MR	63.2	10.1	0	125.0	886	27
Dairyland	DSR-1505E ↗	E3	1.5	R	60.4	10.1	0	126.0	848	29
Dairyland	DSR-1673E ↗	E3	1.6	R	59.6	10.1	0	126.0	837	30
Zinesto	Z1603E ↗	E3	1.6	R	59.4	9.8	0	125.5	834	31
DYNA-GRO	S18EN52 CK	E3	1.8	MR	61.6	9.9	0	126.0	863	28
					Averages =	64.6	10.3		126.4	907
					LSD (0.10) =	4.7	0.3	ns		
					LSD (0.25) =	2.4	0.2	ns		
					C.V. =	5.5				
					Historic yield: 55.89 bu/a, 15 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: 10/16/2022

† 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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2022 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] WABASSO, MN
Leon Plaetz, Redwood County, MN 56293

Full-Season Test	Maturity Group 1.9 - 2.2 S2022MNSC05b
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (2) Replications
PREV. CROP/HERB:	Corn / Triple Flex, Roundup, Callistro, Atrazine
SOIL DESCRIPTION:	Okoboji silty clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 7.0 pH, 5.5% OM, 24.5 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Zidua Pro, Roundup, Liberty, Priaxor, Indigo
Applied N-P-K (units):	0-0-0
SEDED - RATE - ROW:	May 24 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 15 126.2 /A

TEST COMMENTS:

Light rains delayed planting here, but June through July 15 saw little rainfall. Leon states that the rest of the summer saw fairly normal weather. Yields in the field surrounding the plot averaged about 60 bpa, and the plants in the plot showed good health, good height, and no lodging. Again, just a few small rains at certain locations can add a lot to yields. Leon is correct in saying that "seed genetics have come a long way" in the past several years. Due to a seeding overlap, one replicate was removed from the analysis.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z2002E ↗	E3	2.0	NA	69.2	10.0	0	125.5	972	1
Latham	L 2193 E3 ↗	E3	2.1	R	67.8	9.7	0	125.5	952	2
Dairyland	DSR-1919E ↗	E3	1.9	R	67.0	9.9	0	125.5	941	3
Latham	L 2049 E3 ↗	E3	2.0	R	67.0	9.9	0	125.5	941	4
Pioneer	P19A66E § ↗	E3	1.9	NA	66.6	9.4	0	126.0	935	5
Genesis	G2150E ↗	E3	2.1	R	66.2	9.6	0	126.0	929	6
Loyal	L2250E GC ↗	E3	2.2	R	66.1	9.9	0	125.5	928	7
Asgrow	AG21XF2 § ↗	RXF	2.1	R	66.1	9.7	0	125.5	927	8
Golden Harvest	GH2083E3S § ↗	E3,ST	2.0	R	65.5	9.8	0	126.0	920	9
Zinesto	Z2101E ↗	E3	2.1	R	64.7	9.6	0	126.0	908	11
Xitavo	XO 2181E ↗	E3	2.1	R	64.7	9.8	0	128.0	908	12
Zinesto	Z1902E ↗	E3	1.9	NA	64.6	9.6	0	126.5	907	13
Stine	22EF23 § ↗	E3	2.2	R	64.5	9.6	0	126.0	906	14
Dyna-Gro	S20EN92 ↗	E3	2.0	MR	64.2	9.6	0	125.5	901	15
Dairyland	DSR-2040E ↗	E3	2.0	R	63.7	9.5	0	126.5	894	16
Anderson	A200E3 ↗	E3	2.0	NA	63.3	9.9	0	127.0	889	17
Latham	L 2283 XF ↗	RXF	2.2	R	62.7	9.8	5	126.0	880	18
Latham	L 1947 E3 ↗	E3	1.9	R	62.7	9.8	0	126.5	879	19
Genesis	G2270E ↗	E3	2.2	R	62.1	9.7	0	126.0	872	20
Genesis	G1970E ↗	E3	1.9	R	61.8	9.7	0	125.0	868	21
Dyna-Gro	S19XF62 ↗	RXF	1.9	R	61.5	9.7	0	127.5	863	22
Gold Country	2250XF ↗	RXF	2.2	R	61.4	9.8	0	124.5	862	23
Asgrow	AG19XF3 § ↗	RXF	1.9	R	60.8	9.4	0	126.0	854	24
Xitavo	XO 1971E ↗	E3	1.9	R	60.8	9.4	0	127.5	854	25
Dairyland	DSR-2188E ↗	E3	2.1	R	60.6	9.6	0	126.5	849	26
Loyal	L1950E § ↗	E3	1.9	R	60.3	9.4	0	125.5	847	27
Dyna-Gro	S21XF61 ↗	RXF	2.1	R	60.3	9.9	0	125.5	847	28
Zinesto	Z2101G ↗	LLGT27	2.1	R	59.9	9.9	0	126.0	841	29
Titan Pro	TP 20E22 ↗	E3	2.0	R	58.7	9.5	0	127.0	823	30
Genesis	G1950E ↗	E3	1.9	R	57.9	9.6	0	126.0	813	31
DYNA-GRO	S18EN52 CK	E3	1.8	MR	65.0	9.7	0	126.5	913	10

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Averages = **62.6** **9.7** **0** **126.2** **877**

LSD (0.10) = 4.3 ns ns

LSD (0.25) = 2.3 ns ns

C.V. = 5.3

Historic yield: 55.89 bu/a, 15 yr(s)

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

Report Date: 10/16/2022

† 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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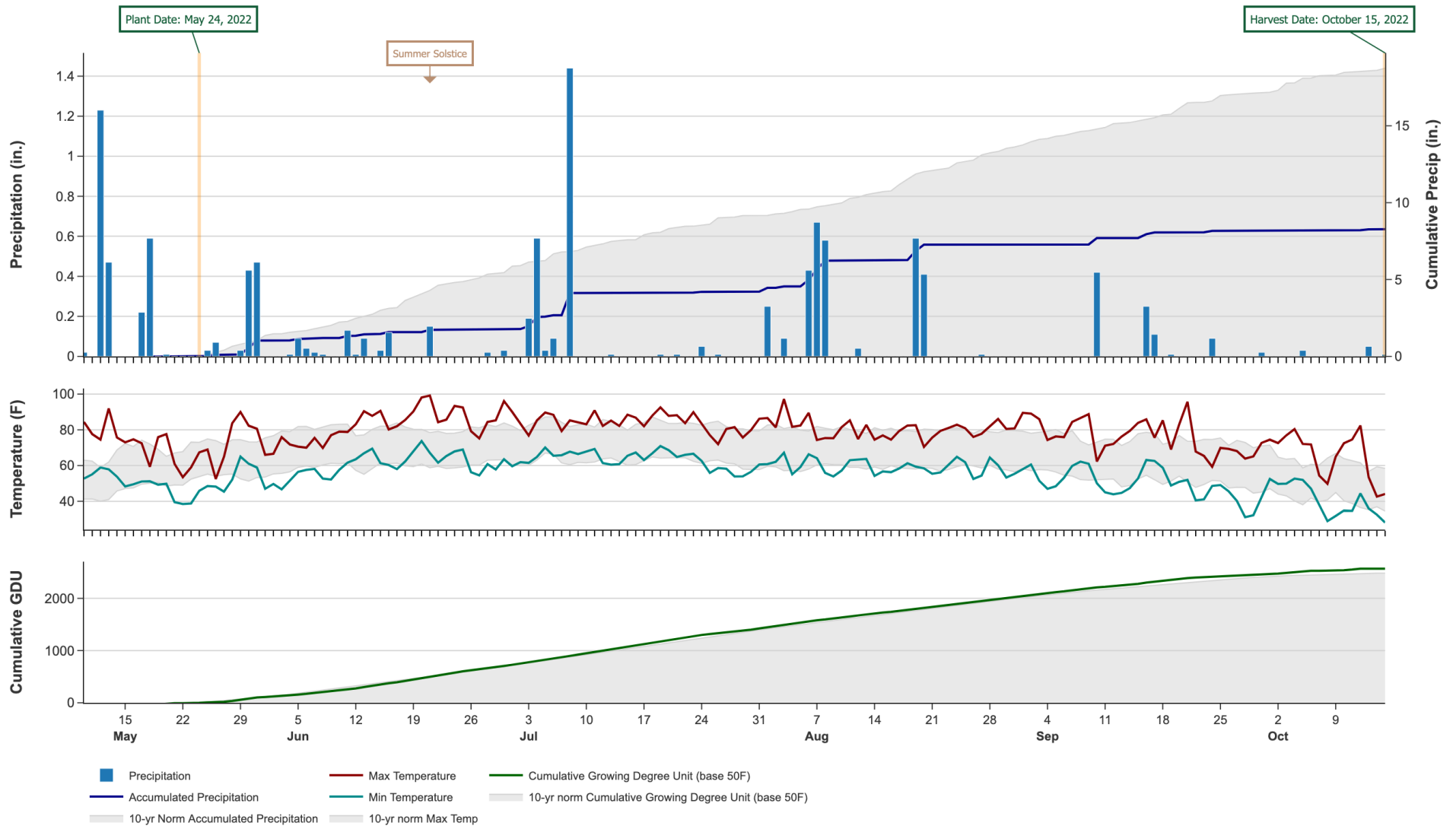
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2022 Soybeans - Minnesota South Central [MNSC]

Weather Conditions Summary at WABASSO, MN

Weather Data Retrieved: 10/16/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	3.6 3.1 (+0.5)	0.8 4.4 (-3.7)	2.4 3.7 (-1.3)	3.1 4.5 (-1.4)	0.9 3.5 (-2.6)	0.1 1.6 (-1.5)	10.8 20.8 (-10.0)
GDU Normal (Diff)	273 230 (+42)	602 597 (+4)	719 699 (+19)	606 603 (+2)	420 414 (+5)	118 71 (+46)	2738 2616 (+121)



* 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 Central [MNSC]

Early-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	A151E3	E3	NA	1.5	Untreated
Anderson	A172E3	E3	MR	1.7	Untreated
Anderson	A182E3	E3	MR	1.8	Untreated
Apex	AE1520 GC	E3	R	1.5	Treated
Apex	AE1630 GC	E3	R	1.6	Treated
Apex	AE1710 GC	E3	R	1.7	Treated
Asgrow	AG15XF2 §	RXF	R	1.5	ACi,IL
Asgrow	AG18XF1 §	RXF	R	1.8	ACi,IL
Dairyland	DSR-1505E	E3	R	1.5	Lum,Lu,IL
Dairyland	DSR-1673E	E3	R	1.6	Lum,Lu,IL
Dyna-Gro	S16EN42	E3	R	1.6	EQV,Sa,Va
Dyna-Gro	S17XF02	RXF	MR	1.7	EQV,Sa,Va
Dyna-Gro	S18EN52 CK	E3	MR	1.8	EQV,Sa,Va
Federal	F1830N GC	RXF	NA	1.8	Treated
Gold Country	1841XF	RXF	R	1.8	ACi,IL
Golden Harvest	GH1762XF §	RXF	MR	1.7	CMBV,SA
Golden Harvest	GH1802E3 §	E3	R	1.8	CMBV,SA
Latham	L 1558 E3	E3	R	1.5	SS+,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
Loyal	L1540E GC	E3	R	1.5	NLSB
Loyal	L1730E GC	E3	NA	1.7	NLSB
Loyal	L1740E GC	E3	R	1.7	NLSB
Pioneer	P17A87E §	E3	NA	1.7	Untreated
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
Zinesto	Z1502E	E3	NA	1.5	DST4
Zinesto	Z1603E	E3	R	1.6	DST4
Zinesto	Z1702E	E3	NA	1.7	DST4,SA
Zinesto	Z1802E	E3	NA	1.8	DST4

2022 Soybeans - Minnesota South Central [MNSC]

Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	A200E3	E3	NA	2.0	Untreated
Asgrow	AG19XF3 §	RXF	R	1.9	ACi,IL
Asgrow	AG21XF2 §	RXF	R	2.1	ACi,IL
Dairyland	DSR-1919E	E3	R	1.9	Lum,Lu,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	S19XF62	RXF	R	1.9	EQV,Sa,Va
Dyna-Gro	S20EN92	E3	MR	2.0	EQV,Sa,Va
Dyna-Gro	S21XF61	RXF	R	2.1	EQV,Sa,Va
Genesis	G1950E	E3	R	1.9	EcTC,SA
Genesis	G1970E	E3	R	1.9	EcTC,SA
Genesis	G2150E	E3	R	2.1	EcTC,SA
Genesis	G2270E	E3	R	2.2	EcTC,SA
Gold Country	1942XF	RXF	R	1.9	ACi,IL
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 1947 E3	E3	R	1.9	SS+,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
Loyal	L1950E §	E3	R	1.9	NLSB
Loyal	L2250E GC	E3	R	2.2	NLSB
Pioneer	P19A66E §	E3	NA	1.9	Untreated
Pioneer	P21T72E §	E3	R	2.1	Untreated
Stine	22EF23 §	E3	R	2.2	SFI
Titan Pro	TP 20E22	E3	R	2.0	SA,A,R,G
Xitavo	XO 1971E	E3	R	1.9	PV,IL,OB,Rey
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB,Rey
Xitavo	XO 2282E	E3	R	2.2	PV,IL,OB,Rey
Zinesto	Z1902E	E3	NA	1.9	DST4
Zinesto	Z2002E	E3	NA	2.0	DST4
Zinesto	Z2101E	E3	R	2.1	DST4
Zinesto	Z2101G	LLGT27	R	2.1	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
DST4,SA	Dominance 4 ST,Saltro®
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	Saltro, 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.