

Test by: North Iowa F.I.R.S.T., Inc. Sanborn, IA

2022 Soybeans Top 30 Harvest Report

Iowa North [IANO] OSAGE, IA

Dale Hemann, Michell County, IA 50461

Early-Season Test	Maturity Group 1.6 - 2.0 S2022IANO03a
Top 30 of 42	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Atrazine, Glyphosate, Verdict, Halex Gt
SOIL DESCRIPTION:	Klinger - Maxfield silty clay loam, well drained, non-irrigated
SOIL CONDITION:	high P, low K, 6.3 pH, 4.2% OM, 20.5 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Sequence, Liberty 280 Sl, Roundup Powermax, Section Three
FERTILITY - Applied N:	15# S
Applied N-P-K (units):	0-50-75
SEEDED - RATE - ROW:	May 21 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 12 125.8 /A

TEST COMMENTS:

Like much of northern Iowa, cool and wet weather near the end of May had an impact on sprouted beans that reduced emergence to the point that it was noticeable. Even with the slow emergence and lower final stands, yield potential remained strong as rainfall was relatively consistent through the growing season. Unlike most other parts of the state where drought held back top-end yields, the Osage area received precipitation amounts above average. With few exceptions where some lodging was noted, plants stood well at harvest.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Stine	17EE32 § ↗	E3	1.7	R	74.2	9.8	0	122.0	983	1
NK Brand	NK19-T8E3S ↗	E3,ST	1.9	R	74.0	9.7	0	122.0	980	2
Latham	L 1947 E3 ↗	E3	1.9	R	72.6	9.3	0	122.0	962	3
Xitavo	XO 1632E ↗	E3	1.6	R	71.7	9.6	0	114.7	950	4
FS HiSOY	HS 18E00 ↗	E3	1.8	R	71.3	9.3	0	130.0	945	5
Kruger	K1914XF ↗	RXF	1.9	R	70.5	9.2	0	130.0	934	6
Golden Harvest	GH1973E3S ↗	E3,ST	1.9	R	70.5	10.1	0	138.0	934	7
Stine	15EE32 § ↗	E3	1.5	R	70.4	9.8	5	138.0	933	8
FS HiSOY	HS 15E10 ↗	E3	1.5	R	70.3	9.6	5	130.0	931	9
Titan Pro	TP 20E22 ↗	E3	2.0	R	70.2	10.0	0	138.0	930	10
Zinesto	Z1702E ↗	E3	1.7	NA	70.0	9.4	8	106.7	928	11
NuTech	16N04E ↗	E3	1.6	R	69.7	9.4	0	122.7	924	12
P3 Genetics	2320E ↗	E3	2.0	R	69.6	9.7	19	122.0	922	13
Xitavo	XO 1971E ↗	E3	1.9	R	69.0	9.0	0	138.0	914	14
Latham	L 1758 E3 ↗	E3	1.7	R	68.6	9.3	0	138.0	909	15
Genesis	G1970E ↗	E3	1.9	R	68.5	9.4	0	130.0	908	16
Asgrow	AG18XF1 § ↗	RXF	1.8	R	68.5	9.5	0	114.7	908	17
Asgrow	AG19XF3 § ↗	RXF	1.9	R	68.3	9.1	0	130.0	905	18
Kruger	K1804XF ↗	RXF	1.8	R	67.8	9.0	0	107.3	898	19
Zinesto	Z1603E ↗	E3	1.6	R	67.7	9.2	0	122.0	897	20
Xitavo	XO 1822E ↗	E3	1.8	R	67.6	9.9	0	122.7	896	21
NK Brand	NK19-D5XF § ↗	RXF	1.9	R	67.3	9.3	0	114.7	892	22
Latham	L 1784 XF ↗	RXF	1.7	R	67.3	9.3	0	122.7	892	23
Zinesto	Z1902E ↗	E3	1.9	NA	67.2	9.5	0	114.7	890	24
Apex	AE1710 GC ↗	E3	1.7	R	66.5	9.0	0	122.0	881	25
Cornelius	CB18XF88 ↗	RXF	1.8	R	66.3	8.9	0	138.0	878	26
FS HiSOY	HS 16F10 ↗	RXF	1.6	R	66.1	10.0	0	130.0	876	27
Titan Pro	TP 18E22 ↗	E3	1.8	R	65.6	9.5	0	130.0	869	28
Apex	AE1630 GC ↗	E3	1.6	R	65.3	9.8	0	138.0	865	29
Apex	AE1930 GC ↗	E3	1.9	R	65.2	9.5	8	130.0	864	30
CROPLAN	CP2240XF CK	RXF	2.2	R	63.0	9.3	0	130.0	835	36

Corey Rozenboom

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Averages = **67.1** **9.5** **3** **125.8** **890**

LSD (0.10) = 3.0 0.4 6

LSD (0.25) = 1.5 0.2 3

C.V. = 4.2

Historic yield: 57.15 bu/a, 11 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.02 Prices: GMO = \$13.25

Report Date: 10/13/2022

† 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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Dale Hemann, Michell County, IA 50461

Full-Season Test	Maturity Group 2.1 - 2.5 S2022IANO03b
Top 30 of 40	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Atrazine, Glyphosate, Verdict, Halex Gt
SOIL DESCRIPTION:	Klinger - Maxfield silty clay loam, well drained, non-irrigated
SOIL CONDITION:	high P, low K, 6.3 pH, 4.2% OM, 20.5 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Sequence, Liberty 280 Sl, Roundup Powermax, Section Three
FERTILITY - Applied N:	15# S
Applied N-P-K (units):	0-50-75
SEEDED - RATE - ROW:	May 21 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 12 129.8 /A

TEST COMMENTS:

Like much of northern Iowa, cool and wet weather near the end of May had an impact on sprouted beans that reduced emergence to the point that it was noticeable. Even with the slow emergence and lower final stands, yield potential remained strong as rainfall was relatively consistent through the growing season. Unlike most other parts of the state where drought held back top-end yields, the Osage area received precipitation amounts above average. With few exceptions where some lodging was noted, plants stood well at harvest.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
FS HISOY	HS 25F10 ↗	RXF,ST	2.5	R	74.3	10.7	0	130.0	984	1
Golden Harvest	GH2102XF ↗	RXF	2.1	MR	73.2	9.0	0	130.0	970	2
Stine	22EF23 § ↗	E3	2.2	R	71.8	9.5	14	130.0	951	3
Kruger	K2294XF ↗	RXF	2.2	R	71.7	10.0	3	122.0	950	4
FS HISOY	HS 24F00 ↗	RXF,ST	2.4	R	70.2	10.4	0	138.0	930	5
Asgrow	AG21XF2 § ↗	RXF	2.1	R	69.1	9.2	0	138.0	916	6
FS HiSOY	HS 25E00 ↗	E3	2.5	R	68.6	9.8	17	138.0	909	7
Kruger	K2594XF ↗	RXF	2.5	R	68.5	10.8	0	130.0	908	8
Latham	L 2283 XF ↗	RXF	2.2	R	68.3	10.3	8	138.0	905	9
Zinesto	Z2101G ↗	LLGT27	2.1	R	68.2	9.6	0	138.0	904	10
Xitavo	XO 2323E ↗	E3	2.3	R	68.1	9.3	11	130.0	902	11
NuTech	25N04E ↗	E3	2.5	R	67.9	11.3	0	138.0	900	12
Genesis	G2270E ↗	E3	2.2	R	67.7	9.6	0	138.0	897	13
P3 Genetics	2223E ↗	E3	2.3	R	67.7	10.2	5	130.0	897	14
Genesis	G2550E ↗	E3	2.5	R	66.6	10.5	8	130.0	882	15
NK Brand	NK23-T9XF § ↗	RXF	2.3	R	66.6	10.1	11	114.0	882	16
Cornelius	CB23XF63 ↗	RXF	2.3	R	66.0	9.6	0	122.0	874	17
FS HISOY	HS 21E20 ↗	E3	2.1	R	65.9	9.7	0	122.0	873	18
NuTech	21N07E ↗	E3	2.1	R	65.8	9.9	0	122.0	872	19
Zinesto	Z2303E ↗	E3	2.3	R	65.7	9.8	0	122.0	871	20
Xitavo	XO 2472E ↗	E3,ST	2.4	R	65.6	10.2	8	122.0	869	21
Genesis	G2150E ↗	E3	2.1	R	65.4	9.7	0	130.0	867	22
Titan Pro	TP 25E22 ↗	E3	2.5	R	64.7	11.2	0	130.0	857	23
Xitavo	XO 2181E ↗	E3	2.1	R	64.2	9.4	0	138.0	851	24
Latham	L 2379 E3 ↗	E3	2.3	R	63.9	9.8	3	130.0	847	25
Pioneer	P22T86E § ↗	E3	2.2	R	63.7	9.7	0	122.0	844	26
Pioneer	P21T72E § ↗	E3	2.1	R	63.7	9.4	0	130.0	844	27
Latham	L 2193 E3 ↗	E3	2.1	R	63.6	10.0	0	130.0	843	28
Latham	L 2494 XF ↗	RXF	2.4	R	63.3	10.9	0	130.0	839	29
Stine	23EE06 § ↗	E3	2.3	S	62.8	9.6	8	130.0	832	31
CROPLAN	CP2240XF CK	RXF	2.2	R	63.0	9.4	0	138.0	835	30
					Averages =	65.6	9.9	3	129.8	870
					LSD (0.10) =	2.4	0.4	ns		
					LSD (0.25) =	1.2	0.2	ns		
					C.V. =	3.4				
					Historic yield: 57.15 bu/a, 11 yr(s)					

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Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.0

Drying = \$0.02

Prices: GMO = \$13.25

Report Date: 10/13/2022

† 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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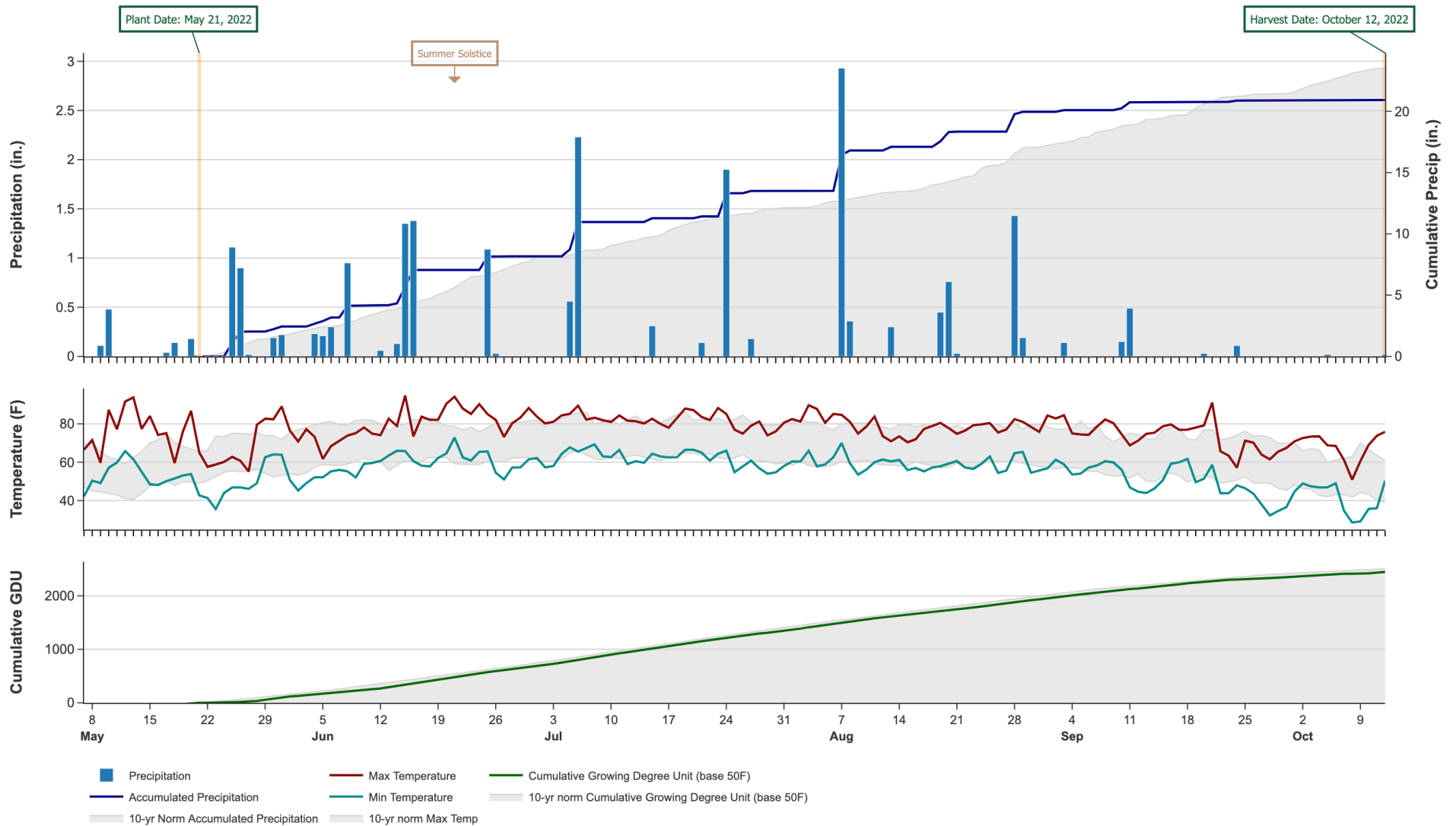
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2022 Soybeans - Iowa North [IANO]

Weather Conditions Summary at OSAGE, IA

Weather Data Retrieved: 10/13/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	3.4 3.9 (-0.5)	5.7 6.0 (-0.3)	5.3 4.4 (+0.9)	6.5 4.9 (+1.5)	0.9 4.4 (-3.5)	0.0 2.1 (-2.0)	21.9 25.7 (-3.9)
GDU Normal (Diff)	324 263 (+60)	562 587 (-25)	677 687 (-10)	589 593 (-4)	415 412 (+2)	98 88 (+9)	2665 2633 (+31)



* 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 - Iowa North [IANO]

Early-Season Test Products (42 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1630 GC	E3	R	1.6	Treated
Apex	AE1710 GC	E3	R	1.7	Treated
Apex	AE1930 GC	E3	R	1.9	Treated
Asgrow	AG18XF1 §	RXF	R	1.8	ACi,IL
Asgrow	AG19XF3 §	RXF	R	1.9	ACi,IL
Asgrow	AG20XF1 GC	RXF	R	2.0	Untreated
Cornelius	CB18XF88	RXF	R	1.8	PG+
Croplan	CP2240XF CK	RXF	R	2.2	Untreated
FS HiSOY	HS 15E10	E3	R	1.5	ACi,SA,B-200
FS HiSOY	HS 16F10	RXF	R	1.6	ACi,SA,B-200
FS HiSOY	HS 18E00	E3	R	1.8	ACi,SA,B-200
FS HiSOY	HS 18F20	RXF	R	1.8	ACi,SA,B-200
Genesis	G1970E	E3	R	1.9	EcTC,SA
Golden Harvest	GH1973E3S	E3,ST	R	1.9	CMBV,SA
Golden Harvest	GH2083E3S §	E3,ST	R	2.0	CMBV,SA
Kruger	K1804XF	RXF	R	1.8	ACi,IL
Kruger	K1914XF	RXF	R	1.9	ACi,IL
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
Latham	L 2049 E3	E3	R	2.0	SS+,SA
NK Brand	NK19-D5XF §	RXF	R	1.9	CMBV,SA
NK Brand	NK19-T8E3S	E3,ST	R	1.9	CMBV,SA
NK Brand	NK20-B6E3S	E3,ST	R	2.0	CMBV,SA
NuTech	16N04E	E3	R	1.6	Lum,Lu,IL
NuTech	19N03E	E3	R	1.9	Lum,Lu,IL
P3 Genetics	2218E	E3	R	1.8	PG+
P3 Genetics	2320E	E3	R	2.0	PG+
Pioneer	P18T91E §	E3	R	1.8	Untreated
Pioneer	P20T64E §	E3	R	2.0	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
Titan Pro	TP 20E22	E3	R	2.0	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	Z1902E	E3	NA	1.9	DST4
Zinesto	Z2002E	E3	NA	2.0	DST4

2022 Soybeans - Iowa North [IANO]

Full-Season Test Products (40 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG21XF2 §	RXF	R	2.1	ACi,IL
Asgrow	AG24XF3 §	RXF	R	2.4	ACi
Cornelius	CB21XF34	RXF	R	2.1	PG+
Cornelius	CB23XF63	RXF	R	2.3	PG+
Croplan	CP2240XF CK	RXF	R	2.2	Untreated
Croplan	CP2520E GC	E3	R	2.5	Untreated
FS HiSOY	HS 21E20	E3	R	2.1	ACi,SA,B-200
FS HiSOY	HS 24F00	RXF,ST	R	2.4	ACi,SA,B-200
FS HiSOY	HS 25E00	E3	R	2.5	ACi,SA,B-200
FS HiSOY	HS 25F10	RXF,ST	R	2.5	ACi,SA,B-200
Genesis	G2150E	E3	R	2.1	EcTC,SA
Genesis	G2270E	E3	R	2.2	EcTC,SA
Genesis	G2550E	E3	R	2.5	EcTC,SA
Genesis	G2570ES	E3,ST	R	2.5	EcTC,SA
Golden Harvest	GH2102XF	RXF	MR	2.1	CMBV,SA
Golden Harvest	GH2292E3 §	E3	MR	2.2	CMBV,SA
Kruger	K2294XF	RXF	R	2.2	ACi,IL
Kruger	K2594XF	RXF	R	2.5	ACi,IL
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
Latham	L 2494 XF	RXF	R	2.4	SS+,SA
NK Brand	NK23-T9XF §	RXF	R	2.3	CMBV,SA
NuTech	21N07E	E3	R	2.1	Lum,Lu,IL
NuTech	24N04E	E3	R	2.4	Lum,Lu,IL
NuTech	25N04E	E3	R	2.5	Lum,Lu,IL
P3 Genetics	2223E	E3	R	2.3	PG+
Pioneer	P21T72E §	E3	R	2.1	Untreated
Pioneer	P22T86E §	E3	R	2.2	Untreated
Stine	22EF23 §	E3	R	2.2	SFI
Stine	23EE06 §	E3	S	2.3	SFI
Titan Pro	TP 25E22	E3	R	2.5	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
Xitavo	XO 2472E	E3,ST	R	2.4	PV,IL,OB,Rey
Zinesto	Z2101G	LLGT27	R	2.1	DST4
Zinesto	Z2303E	E3	R	2.3	DST4
Zinesto	Z2401E	E3	R	2.4	DST4
Zinesto	Z2503E	E3	R	2.5	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	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ACi,SA,B-200	Acceleron® Standard Insecticide-Fungicide, Saltro®, B-200 SAT
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Saltro®
DST4	Dominance 4 ST
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro®
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PG+	Profit Guard +
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, Saltro®
Treated	Treated, unspecified
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.