

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

2022 Soybeans Top 30 Harvest Report

Iowa North [IANO] LU VERNE, IA

Bob Plathe, Kossuth County, IA 50560

Early-Season Test	Maturity Group 1.6 - 2.0 S2022IANO01a
Top 30 of 42	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Corvus, Impact
SOIL DESCRIPTION:	Kossuth silty clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, low K, 4.9 pH, 4.6% OM, 32.9 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Prowl H2o, Metribuzin, Athority, Liberty, Roundup Powermax, Section Three
FERTILITY - Applied N:	2 T/A of chicken litter applied Fall 2021.
Applied N-P-K (units):	0-124-84
SEEDED - RATE - ROW:	May 21 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 10 126.8 /A

TEST COMMENTS:

Planted May 21 after the field was prepared with conventional tillage. The first week following planting was cool and wet which delayed germination slightly and reduced vigor of emerged plants. There was some evidence of reduced and uneven overall stands in the plot area where seeds exposed to the cold took a bit longer to recover from stunting. The heat and dry weather pattern of the season were the main factors in this area. A good shot of rain on Aug 7 and again on Aug 19-20 really helped plants that were desperate for moisture. Bob reported on Aug 22 that the crops were showing visible signs of some heat stress. The field experienced a deficit of rainfall every month of the growing season and ended about 11" short of the 10yr normal accumulated precipitation.

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	75.1	6.9	0	130.0	995	1
FS HiSOY	HS 18E00 ↗	E3	1.8	R	74.5	7.0	5	122.0	987	2
Latham	L 1784 XF ↗	RXF	1.7	R	73.9	7.3	0	138.0	979	3
P3 Genetics	2218E ↗	E3	1.8	R	72.5	7.8	0	122.0	961	4
P3 Genetics	2320E ↗	E3	2.0	R	71.8	7.2	0	130.0	951	5
NK Brand	NK19-D5XF § ↗	RXF	1.9	R	71.6	7.7	0	122.0	949	6
Zinesto	Z1702E ↗	E3	1.7	NA	71.5	7.4	12	114.0	947	7
FS HiSOY	HS 15E10 ↗	E3	1.5	R	71.4	7.7	0	122.0	946	8
Golden Harvest	GH1973E3S ↗	E3,ST	1.9	R	71.3	7.2	8	130.0	945	9
Xitavo	XO 1632E ↗	E3	1.6	R	70.8	7.7	0	122.0	938	10
Titan Pro	TP 18E22 ↗	E3	1.8	R	70.4	7.2	0	130.0	933	11
Latham	L 2049 E3 ↗	E3	2.0	R	70.3	7.2	5	130.0	931	12
Asgrow	AG18XF1 § ↗	RXF	1.8	R	70.1	7.3	0	122.0	929	13
NuTech	19N03E ↗	E3	1.9	R	69.9	7.0	0	122.0	926	14
Apex	AE1930 GC ↗	E3	1.9	R	69.5	7.6	3	114.0	921	15
Golden Harvest	GH2083E3S § ↗	E3,ST	2.0	R	69.3	7.2	5	122.0	918	16
NK Brand	NK20-B6E3S ↗	E3,ST	2.0	R	69.3	7.3	0	122.0	918	17
Stine	17EE32 § ↗	E3	1.7	R	69.3	7.7	0	130.0	918	18
Xitavo	XO 1822E ↗	E3	1.8	R	69.2	7.5	0	138.0	917	19
NK Brand	NK19-T8E3S ↗	E3,ST	1.9	R	68.3	7.1	0	138.0	905	20
Stine	15EE32 § ↗	E3	1.5	R	68.2	7.5	0	130.0	904	21
Pioneer	P20T64E § ↗	E3	2.0	R	68.0	7.2	16	138.0	901	22
Titan Pro	TP 20E22 ↗	E3	2.0	R	67.4	7.2	0	138.0	893	23
Cornelius	CB18XF88 ↗	RXF	1.8	R	66.4	7.0	0	122.0	880	24
Kruger	K1914XF ↗	RXF	1.9	R	66.3	7.1	0	122.0	878	25
NuTech	16N04E ↗	E3	1.6	R	66.3	7.4	0	138.0	878	26
Kruger	K1804XF ↗	RXF	1.8	R	64.8	7.1	3	122.7	859	27
Apex	AE1630 GC ↗	E3	1.6	R	64.6	7.7	0	114.0	856	28
FS HiSOY	HS 18F20 ↗	RXF	1.8	R	63.7	7.3	0	130.0	844	29
Xitavo	XO 1761E ↗	E3	1.7	R	63.7	7.1	0	138.0	844	30
CROPLAN	CP2240XF CK	RXF	2.2	R	57.6	7.6	0	114.0	763	40

Corey Rozenboom

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Averages = **66.9** **7.3** **1** **126.8** **886**

LSD (0.10) = 4.2 0.2 ns

LSD (0.25) = 2.2 0.1 ns

C.V. = 6.0 Historic yield: 61.51 bu/a, 5 yr(s)

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

Report Date: 10/11/2022

Additional reports available at www.firstseedtests.com

† 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

Iowa North [IANO] LU VERNE, IA
Bob Plathe, Kossuth County, IA 50560

Full-Season Test	Maturity Group 2.1 - 2.5 S2022IANO01b
Top 30 of 40	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Corvus, Impact
SOIL DESCRIPTION:	Kossuth silty clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, low K, 4.9 pH, 4.6% OM, 32.9 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Prowl H2o, Metribuzin, Authority, Liberty, Roundup Powermax, Section Three
FERTILITY - Applied N:	2 T/A of chicken litter applied Fall 2021.
Applied N-P-K (units):	0-124-84
SEEDED - RATE - ROW:	May 21 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 10 128.4 /A

TEST COMMENTS:

Planted May 21 after the field was prepared with conventional tillage. The first week following planting was cool and wet which delayed germination slightly and reduced vigor of emerged plants. There was some evidence of reduced and uneven overall stands in the plot area where seeds exposed to the cold took a bit longer to recover from stunting. The heat and dry weather pattern of the season were the main factors in this area. A good shot of rain on Aug 7 and again on Aug 19-20 really helped plants that were desperate for moisture. Bob reported on Aug 22 that the crops were showing visible signs of some heat stress. The field experienced a deficit of rainfall every month of the growing season and ended about 11" short of the 10yr normal accumulated precipitation.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z2401E ↗	E3	2.4	R	72.9	7.1	0	130.0	966	1
Xitavo	XO 2181E ↗	E3	2.1	R	70.7	7.2	0	130.0	937	2
Titan Pro	TP 25E22 ↗	E3	2.5	R	70.6	7.0	0	130.0	935	3
Croplan	CP2520E GC ↗	E3	2.5	R	70.5	7.4	0	122.0	934	4
FS HiSOY	HS 21E20 ↗	E3	2.1	R	69.8	7.0	0	138.0	925	5
Genesis	G2550E ↗	E3	2.5	R	69.4	7.0	0	122.0	920	6
Genesis	G2570ES ↗	E3,ST	2.5	R	69.2	7.3	0	122.0	917	7
Golden Harvest	GH2102XF ↗	RXF	2.1	MR	68.6	7.3	0	130.0	909	8
Xitavo	XO 2323E ↗	E3	2.3	R	68.6	7.0	0	122.0	909	9
Zinesto	Z2303E ↗	E3	2.3	R	67.8	7.5	0	122.0	898	10
Genesis	G2270E ↗	E3	2.2	R	67.2	7.2	0	138.0	890	11
Stine	23EE06 § ↗	E3	2.3	S	67.2	7.3	0	114.0	890	12
P3 Genetics	2223E ↗	E3	2.3	R	66.5	7.3	0	138.0	881	13
Latham	L 2283 XF ↗	RXF	2.2	R	65.8	7.4	0	122.0	872	14
NuTech	24N04E ↗	E3	2.4	R	65.7	7.4	0	114.7	871	15
Zinesto	Z2503E ↗	E3	2.5	R	65.3	7.4	0	130.0	865	16
Stine	22EF23 § ↗	E3	2.2	R	65.2	7.1	0	138.0	864	17
Asgrow	AG21XF2 § ↗	RXF	2.1	R	65.1	7.6	0	138.0	863	18
NuTech	21N07E ↗	E3	2.1	R	65.0	7.0	0	122.0	861	19
Latham	L 2379 E3 ↗	E3	2.3	R	65.0	7.6	0	130.0	861	20
Zinesto	Z2101G ↗	LLGT27	2.1	R	64.9	7.1	0	138.0	860	21
Kruger	K2594XF ↗	RXF	2.5	R	64.7	7.5	0	122.0	857	22
NK Brand	NK23-T9XF § ↗	RXF	2.3	R	63.9	7.2	7	130.0	847	23
Genesis	G2150E ↗	E3	2.1	R	63.8	7.3	0	122.0	845	24
Xitavo	XO 2472E ↗	E3,ST	2.4	R	63.8	7.4	0	130.0	845	25
Cornelius	CB23XF63 ↗	RXF	2.3	R	62.6	7.3	0	138.0	829	26
Latham	L 2494 XF ↗	RXF	2.4	R	61.8	7.6	0	130.0	819	27
NuTech	25N04E ↗	E3	2.5	R	61.6	6.9	0	130.0	816	28
FS HiSOY	HS 25E00 ↗	E3	2.5	R	61.5	7.0	0	130.0	815	29
Xitavo	XO 2282E ↗	E3	2.2	R	61.3	6.9	0	138.0	812	30
CROPLAN	CP2240XF CK	RXF	2.2	R	57.3	7.3	0	130.0	759	38
					Averages =	64.2	7.3	0	128.4	851
					LSD (0.10) =	3.5	0.2	ns		
					LSD (0.25) =	1.8	0.1	ns		
					C.V. =	5.1	Historic yield: 61.51 bu/a, 5 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: 10/11/2022

† 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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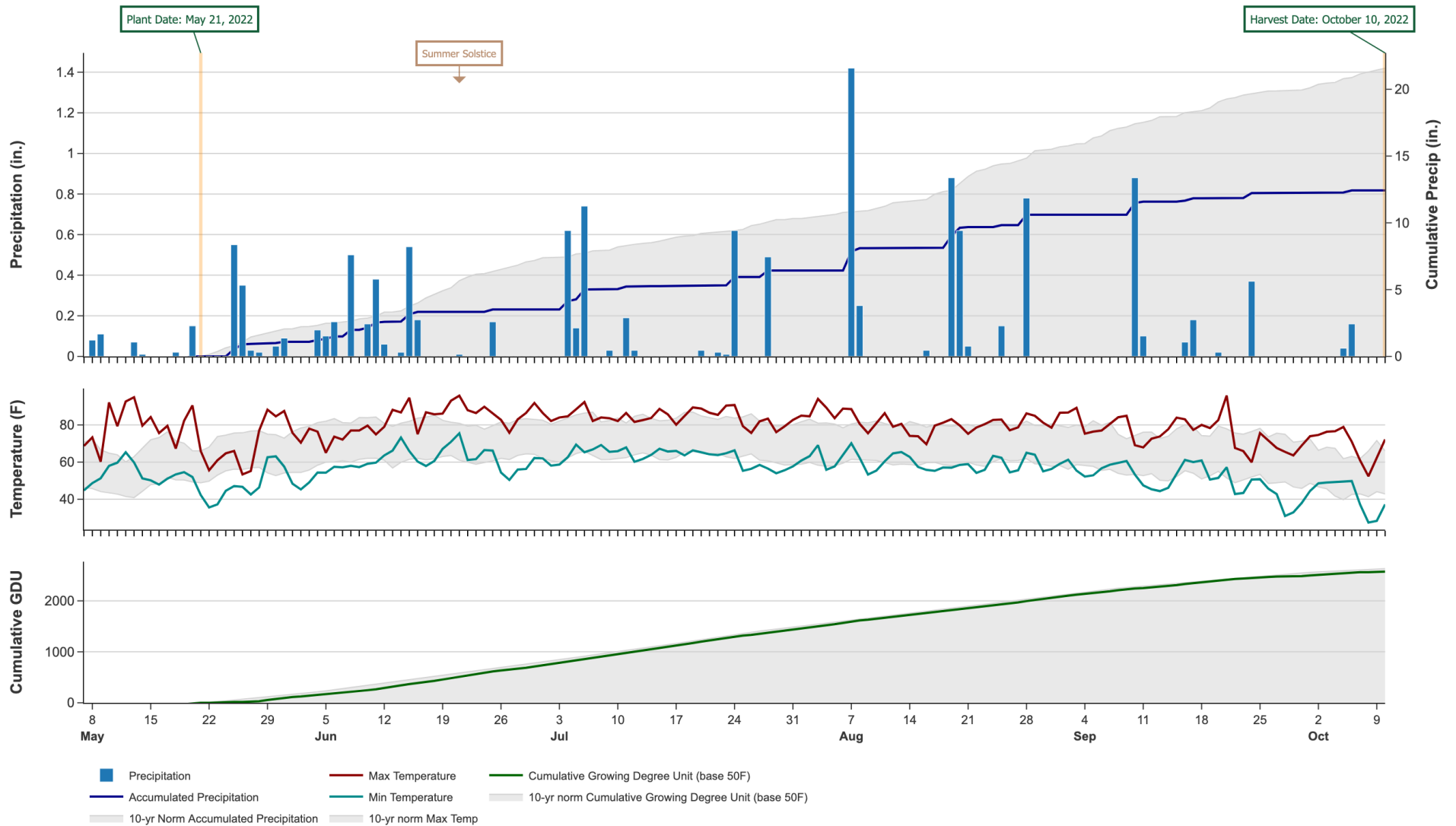
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2022 Soybeans - Iowa North [IANO]

Weather Conditions Summary at LU VERNE, IA

Weather Data Retrieved: 10/11/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	1.5 4.5 (-3.0)	2.4 5.1 (-2.7)	2.9 3.1 (-0.2)	4.2 5.2 (-1.0)	1.6 4.4 (-2.8)	0.2 1.6 (-1.4)	12.9 24.0 (-11.2)
GDU Normal (Diff)	334 283 (+50)	611 629 (-18)	714 710 (+3)	629 618 (+10)	431 445 (-14)	87 82 (+4)	2806 2768 (+37)



* 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, Salstro®, B-200 SAT
CMBV,SA	Cruisermass® Beans, Vibrance®, Salstro®
DST4	Dominance 4 ST
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Salstro®
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PG+	Profit Guard +
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.