

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

2022 Soybeans Top 30 Harvest Report

Iowa North [IANO] NEW HAMPTON, IA

Matt Bruening, Chickasaw County, IA

Early-Season Test	Maturity Group 1.6 - 2.0 S2022IANO04a
Top 30 of 42	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Keystone, Lo-Vol ^, Callisto, Stinger
SOIL DESCRIPTION:	Floyd - Clyde clay loam, moderately drained, non- irrigated
SOIL CONDITION:	low P, low K, 7.1 pH, 4.9% OM, 22.4 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Dual, Metrix, Lo-Vol6 2,4-D, Authority, Aproach Prima, Bifen, Liberty 280 SI, Roundup Powermax, Section Three
FERTILITY - Applied N:	FertiRain @ 1gal/A, Kalibrate @ 2gal/A, B&Mn @ 1pt
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 21 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 15 125.2 /A

TEST COMMENTS:

Cool, wet soils pushed planting dates for beans later into May. Overnight temperatures in the 30's were still recorded as late as May 23. Nearly 2" of rain fell within a week after planting and seedlings were slow to emerge. Stands were impacted slightly and appeared to be variety specific. Plants spent the month of June in cooler-than-average temperatures. Most of the season could be considered drier than average. A 2.9" soaker recorded on Aug 7 probably didn't completely soak into the soil profile, but it did help fill pods and add seed size toward the end of the year. Plants stood well at harvest and no lodging was noted.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Apex	AE1930 GC ↗	E3	1.9	R	73.5	12.1	0	122.0	974	1
P3 Genetics	2320E ↗	E3	2.0	R	70.9	12.0	0	130.0	939	2
Stine	15EE32 § ↗	E3	1.5	R	69.1	12.4	0	116.3	916	3
Asgrow	AG18XF1 § ↗	RXF	1.8	R	68.9	11.9	0	130.0	913	4
NK Brand	NK20-B6E3S ↗	E3,ST	2.0	R	66.6	12.1	0	138.0	882	5
Golden Harvest	GH2083E3S § ↗	E3,ST	2.0	R	65.6	12.4	0	122.0	869	6
Zinesto	Z2002E ↗	E3	2.0	NA	65.3	12.2	0	138.0	865	7
Asgrow	AG20XF1 GC ↗	RXF	2.0	R	65.2	12.2	0	130.0	864	8
FS HISOY	HS 18E00 ↗	E3	1.8	R	65.1	12.0	0	122.0	863	9
Kruger	K1914XF ↗	RXF	1.9	R	65.0	11.7	0	130.0	861	10
Asgrow	AG19XF3 § ↗	RXF	1.9	R	65.0	11.9	0	130.0	861	11
NuTech	19N03E ↗	E3	1.9	R	64.6	12.5	0	122.0	856	13
Genesis	G1970E ↗	E3	1.9	R	64.6	12.1	0	106.7	856	14
Pioneer	P20T64E § ↗	E3	2.0	R	64.5	12.7	0	122.0	855	15
Titan Pro	TP 18E22 ↗	E3	1.8	R	64.4	12.2	0	130.0	853	16
NK Brand	NK19-D5XF § ↗	RXF	1.9	R	64.0	12.5	0	114.0	848	17
Titan Pro	TP 20E22 ↗	E3	2.0	R	63.3	12.4	0	138.0	839	18
Stine	17EE32 § ↗	E3	1.7	R	63.1	12.6	0	122.0	836	19
Kruger	K1804XF ↗	RXF	1.8	R	62.9	12.1	0	122.0	833	20
Golden Harvest	GH1973E3S ↗	E3,ST	1.9	R	62.7	12.4	0	130.0	831	21
Zinesto	Z1702E ↗	E3	1.7	NA	62.7	12.3	0	99.3	831	22
Latham	L 1758 E3 ↗	E3	1.7	R	62.6	11.8	0	114.0	829	23
FS HISOY	HS 16F10 ↗	RXF	1.6	R	62.3	12.4	0	122.0	825	24
Cornelius	CB18XF88 ↗	RXF	1.8	R	62.2	12.0	0	122.0	824	25
FS HISOY	HS 18F20 ↗	RXF	1.8	R	62.0	12.2	0	114.7	822	26
Xitavo	XO 1761E ↗	E3	1.7	R	61.8	12.1	0	130.0	819	27
Apex	AE1630 GC ↗	E3	1.6	R	61.7	12.4	0	138.0	818	28
Latham	L 1947 E3 ↗	E3	1.9	R	61.7	12.2	0	138.0	818	29
Latham	L 1784 XF ↗	RXF	1.7	R	61.2	12.1	0	130.0	811	30
Zinesto	Z1902E ↗	E3	1.9	NA	61.1	12.1	0	122.0	810	31
CROPLAN	CP2240XF CK	RXF	2.2	R	64.9	12.0	0	122.0	860	12
					Averages =	62.9	12.2	125.2	834	
					LSD (0.10) =	2.8	0.3	ns		
					LSD (0.25) =	1.5	0.1	ns		
					C.V. =	4.2				
Corey Rozenboom					Historic yield: 56.15 bu/a, 20 yr(s)					
corey.rozenboom@firstseedtests.com, (319) 830-8886										

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

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

Iowa North [IANO] NEW HAMPTON, IA
Matt Bruening, Chickasaw County, IA

Full-Season Test	Maturity Group 2.1 - 2.5 S2022IANO04b
Top 30 of 40	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Keystone, Lo-Vol ^, Callisto, Stinger
SOIL DESCRIPTION:	Floyd - Clyde clay loam, moderately drained, non- irrigated
SOIL CONDITION:	low P, low K, 7.1 pH, 4.9% OM, 22.4 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Dual, Metrixx, Lo-Vol6 2,4-D, Authority, Aproach Prima, Bifen, Liberty 280 SI, Roundup Powermax, Section Three
FERTILITY - Applied N:	FertiRain @ 1gal/A, Kalibrate @ 2gal/A, B&Mn @ 1pt
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 21 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 15 122.7 /A

TEST COMMENTS:

Cool, wet soils pushed planting dates for beans later into May. Overnight temperatures in the 30's were still recorded as late as May 23. Nearly 2" of rain fell within a week after planting and seedlings were slow to emerge. Stands were impacted slightly and appeared to be variety specific. Plants spent the month of June in cooler-than-average temperatures. Most of the season could be considered drier than average. A 2.9" soaker recorded on Aug 7 probably didn't completely soak into the soil profile, but it did help fill pods and add seed size toward the end of the year. Plants stood well at harvest and no lodging was noted.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Golden Harvest	GH2102XF ↗	RXF	2.1	MR	69.6	12.2	0	130.0	922	1
Genesis	G2270E ↗	E3	2.2	R	68.0	12.5	0	130.0	901	2
Asgrow	AG21XF2 § ↗	RXF	2.1	R	67.9	12.1	0	130.0	900	3
Xitavo	XO 2181E ↗	E3	2.1	R	66.8	12.4	0	138.0	885	4
NuTech	25N04E ↗	E3	2.5	R	66.4	12.4	0	130.0	880	5
FS HiSOY	HS 25E00 ↗	E3	2.5	R	66.1	12.2	0	122.7	876	6
Zinesto	Z2503E ↗	E3	2.5	R	66.0	12.7	0	122.7	874	7
Genesis	G2150E ↗	E3	2.1	R	64.9	12.5	0	93.0	860	9
Cornelius	CB23XF63 ↗	RXF	2.3	R	64.8	12.3	0	114.7	859	10
Titan Pro	TP 25E22 ↗	E3	2.5	R	64.6	12.0	0	130.0	856	11
Genesis	G2550E ↗	E3	2.5	R	64.5	12.1	0	130.0	855	12
P3 Genetics	2223E ↗	E3	2.3	R	64.3	12.3	0	130.0	852	13
FS HiSOY	HS 21E20 ↗	E3	2.1	R	63.8	12.2	0	114.0	845	14
Zinesto	Z2401E ↗	E3	2.4	R	63.8	12.1	0	122.0	845	15
NuTech	24N04E ↗	E3	2.4	R	63.7	12.3	0	130.0	844	16
FS HiSOY	HS 24F00 ↗	RXF,ST	2.4	R	63.6	12.5	0	106.7	843	17
Pioneer	P21T72E § ↗	E3	2.1	R	63.4	12.3	0	114.7	840	18
NK Brand	NK23-T9XF § ↗	RXF	2.3	R	63.3	12.2	0	130.0	839	19
Asgrow	AG24XF3 § ↗	RXF	2.4	R	63.2	12.3	0	138.0	837	20
Genesis	G2570ES ↗	E3,ST	2.5	R	63.0	11.9	0	122.7	835	21
Kruger	K2294XF ↗	RXF	2.2	R	63.0	12.4	0	130.0	835	22
Xitavo	XO 2282E ↗	E3	2.2	R	62.6	12.3	0	130.0	829	23
Xitavo	XO 2323E ↗	E3	2.3	R	62.3	12.4	0	114.0	825	24
Xitavo	XO 2472E ↗	E3,ST	2.4	R	61.6	12.3	0	130.0	816	25
Latham	L 2494 XF ↗	RXF	2.4	R	61.2	12.4	0	114.7	811	26
Latham	L 2379 E3 ↗	E3	2.3	R	61.2	12.3	0	114.0	811	27
Latham	L 2283 XF ↗	RXF	2.2	R	60.8	12.2	0	114.0	806	28
Kruger	K2594XF ↗	RXF	2.5	R	60.5	12.5	0	114.7	802	29
Stine	23EE06 § ↗	E3	2.3	S	60.5	12.3	0	130.0	802	30
Cornelius	CB21XF34 ↗	RXF	2.1	R	59.9	11.8	0	114.0	794	31
CROPLAN	CP2240XF CK	RXF	2.2	R	65.3	12.3	0	130.0	865	8
					Averages =	62.5	12.3		122.7	828
					LSD (0.10) =	3.0	0.2	ns		
					LSD (0.25) =	1.6	0.1	ns		
					C.V. =	4.6				
Corey Rozenboom					Historic yield: 56.15 bu/a, 20 yr(s)					
corey.rozenboom@firstseedtests.com, (319) 830-8886										

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

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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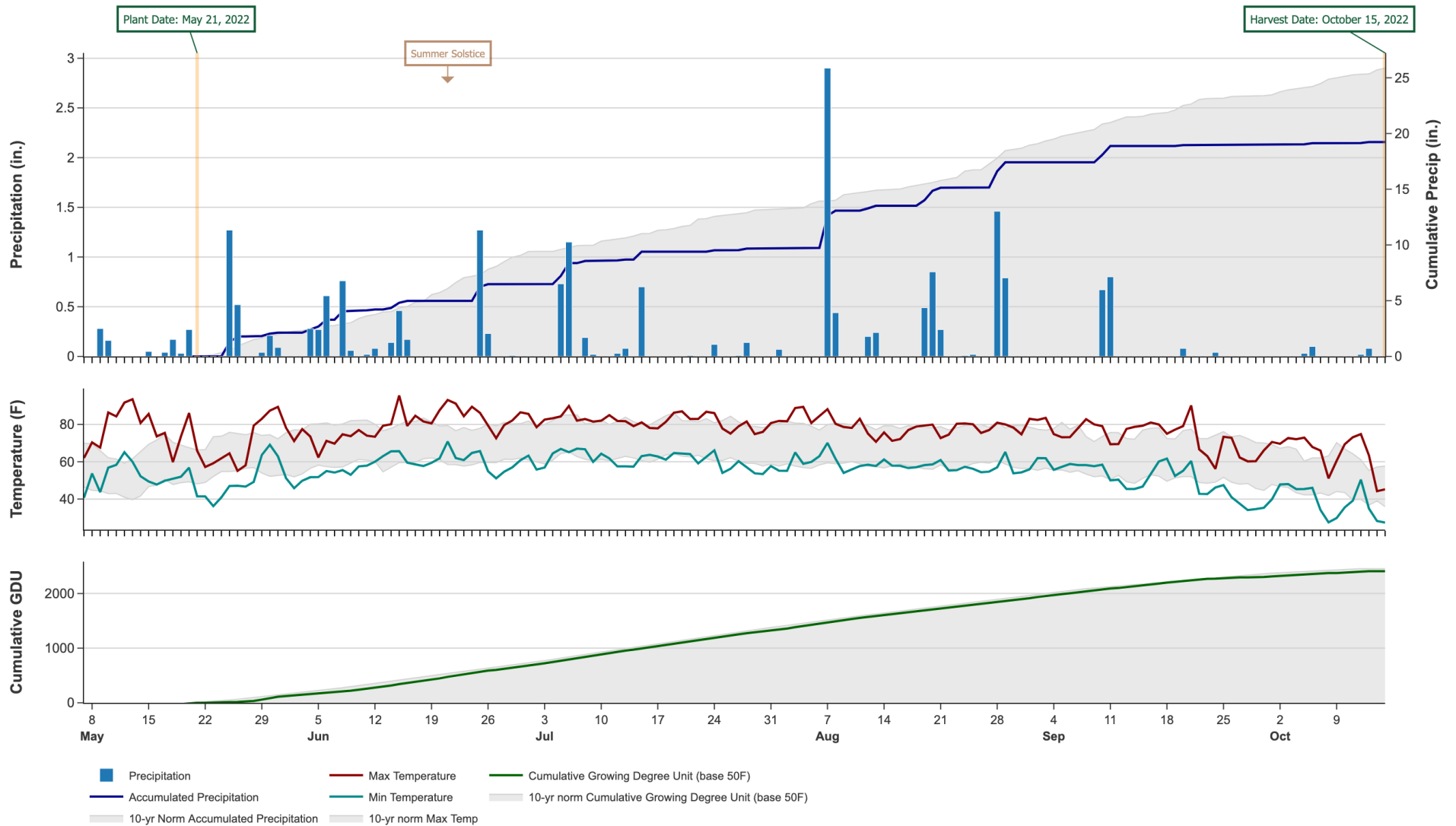
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2022 Soybeans - Iowa North [IANO]

Weather Conditions Summary at NEW HAMPTON, IA

Weather Data Retrieved: 10/16/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	3.1 4.4 (-1.3)	4.4 7.1 (-2.7)	3.2 4.1 (-0.9)	7.7 5.5 (+2.2)	1.6 4.7 (-3.1)	0.2 2.5 (-2.2)	20.2 28.3 (-8.1)
GDU Normal (Diff)	334 264 (+69)	552 573 (-21)	659 668 (-9)	573 577 (-4)	409 406 (+2)	105 90 (+14)	2632 2580 (+51)



* 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, Salto®, B-200 SAT
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Salto®
DST4	Dominance 4 ST
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Salto®
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PG+	Profit Guard +
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
SA,A,R,G	Salto, Allegiance FL, Redigo 480, Gaucho 600
SFI	Stine XP F&I
SS+,SA	SoyShield Plus, Salto®
Treated	Treated, unspecified
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.