

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

2022 Soybeans Top 30 Harvest Report

Iowa North Central [IANC] WATERLOO, IA
Rottinghaus Farms, Rottinghaus Farms, Black Hawk County,
IA 50703

Early-Season Test Maturity Group 2.1 - 2.5
S2022IANC04a

Top 30 of 34 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Corn, Rye Cover Crop / Acuron

SOIL DESCRIPTION: Marquis loam, moderately
drained, non-irrigated

SOIL CONDITION: medium P, medium K, 6.0 pH,
2.9% OM, 12.8 CEC

TILLAGE/CULTIVATION: No-Till

PEST MANAGEMENT: Warrant, Liberty, Select Max

FERTILITY - Applied N: 27 Fall

Applied N-P-K (units): 27-67-90

SEEDED - RATE - ROW: May 20 144.0 /A 30" spacing

HARVESTED - STAND: Oct 14 127.2 /A

TEST COMMENTS:

The weather pattern for Black Hawk county was favorable for crop development compared to most other parts of the state this year that battled a prolonged drought through much of the growing season. A couple of storms on June 25 (3.1") and again on Aug 7 (2.8") were responsible for the largest contributors of accumulated rainfall, and it is possible not all of that moisture soaked into the soil profile. Aside from those showers, the season was a bit below average for rain and as of the Oct 13 drought monitor map, this county is now rated as abnormally dry. Plants were healthy at harvest with some lodging noted, none of which was severe.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Asgrow	AG21XF2 § ↗	RXF	2.1	R	76.8	11.8	0	122.0	1018	1
Latham	L 2283 XF ↗	RXF	2.2	R	75.6	11.8	0	130.0	1002	2
FS HiSOY	HS 25E00 ↗	E3	2.5	R	74.7	11.8	0	138.0	990	3
Titan Pro	TP 25E22 ↗	E3	2.5	R	74.5	11.6	3	130.0	987	4
Hoegemeyer	2123 E ↗	E3	2.1	R	73.9	12.7	0	122.0	979	5
Kruger	K2294XF ↗	RXF	2.2	R	73.5	12.0	0	130.0	974	6
NuTech	21N07E ↗	E3	2.1	R	73.0	11.9	0	122.0	967	7
Asgrow	AG24XF3 § ↗	RXF	2.4	R	72.2	11.8	12	138.0	957	8
P3 Genetics	2223E ↗	E3	2.3	R	71.6	12.7	11	130.0	949	9
Stine	23EE06 § ↗	E3	2.3	S	71.4	12.4	0	122.7	946	10
NK Brand	NK25-C9XF § ↗	RXF	2.5	MR	71.2	11.3	0	122.0	943	11
FS HiSOY	HS 25F10 ↗	RXF,ST	2.5	R	70.9	11.9	0	130.0	939	12
Latham	L 2494 XF ↗	RXF	2.4	R	70.5	12.1	0	138.0	934	13
Genesis	G2550E ↗	E3	2.5	R	69.6	12.1	3	130.0	922	14
Golden Harvest	GH2313XF ↗	RXF	2.3	R	68.6	11.7	0	108.3	909	15
Latham	L 2458 E3 ↗	E3	2.4	R	68.1	12.7	5	100.3	902	16
Xitavo	XO 2472E ↗	E3,ST	2.4	R	67.9	12.2	14	130.0	900	17
Cornelius	CB25XF99 ↗	RXF	2.5	R	67.7	12.1	5	122.0	897	18
Xitavo	XO 2501E ↗	E3	2.5	R	67.1	12.0	0	122.0	889	19
NK Brand	NK23-T9XF ↗	RXF	2.3	R	66.2	12.0	0	130.0	877	20
NuTech	25N04E ↗	E3	2.5	R	65.9	11.5	0	130.0	873	21
Genesis	G2570ES ↗	E3,ST	2.5	R	65.8	11.6	5	138.0	872	22
NK Brand	NK20-B6E3S ↗	E3,ST	2.0	R	65.7	12.1	11	138.0	871	23
Xitavo	XO 2323E ↗	E3	2.3	R	65.4	11.9	0	138.0	867	24
Kruger	K2594XF ↗	RXF	2.5	R	65.2	11.9	0	114.0	864	25
FS HiSOY	HS 23E10 ↗	E3,ST	2.3	R	64.4	12.1	8	130.0	853	27
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	64.2	11.5	3	122.7	851	28
NuTech	24N04E ↗	E3	2.4	R	63.8	11.7	0	138.0	845	29
Hoegemeyer	2553 E ↗	E3	2.5	R	62.9	11.8	0	130.0	833	30
Latham	L 2193 E3 ↗	E3	2.1	R	62.8	11.9	0	100.3	832	31
CROPLAN	CP2520E CK	E3	2.5	R	64.8	11.9	5	138.0	859	26

Corey Rozenboom

Corey Rozenboom

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Averages = **68.2** **12.0** **3** **127.2** **903**

LSD (0.10) = 3.4 ns ns

LSD (0.25) = 1.8 ns ns

C.V. = 4.8

Historic yield: 59.14 bu/a, 7 yr(s)

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

Report Date: 10/14/2022

† 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 Central [IANC] WATERLOO, IA
Rottinghaus Farms, Rottinghaus Farms, Black Hawk County,
IA 50703

Full-Season Test Maturity Group 2.6 - 2.9
S2022IANC04b

Top 30 of 42 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Corn, Rye Cover Crop / Acuron

SOIL DESCRIPTION: Marquis loam, moderately
drained, non-irrigated

SOIL CONDITION: medium P, medium K, 6.0 pH,
2.9% OM, 12.8 CEC

TILLAGE/CULTIVATION: No-Till

PEST MANAGEMENT: Warrant, Liberty, Select Max

FERTILITY - Applied N: 27 Fall

Applied N-P-K (units): 27-67-90

SEEDED - RATE - ROW: May 20 144.0 /A 30" spacing

HARVESTED - STAND: Oct 14 125.9 /A

TEST COMMENTS:

The weather pattern for Black Hawk county was favorable for crop development compared to most other parts of the state this year that battled a prolonged drought through much of the growing season. A couple of storms on June 25 (3.1") and again on Aug 7 (2.8") were responsible for the largest contributors of accumulated rainfall, and it is possible not all of that moisture soaked into the soil profile. Aside from those showers, the season was a bit below average for rain and as of the Oct 13 drought monitor map, this county is now rated as abnormally dry. Plants were healthy at harvest with some lodging noted, none of which was severe.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
NuTech	29N02E ↗	E3	2.9	R	75.6	11.4	0	138.0	1002	1
Cornelius	CB29XF35 ↗	RXF	2.9	S	74.1	11.6	0	130.0	982	2
Asgrow	AG27XF3 § ↗	RXF	2.7	R	74.1	11.8	0	122.0	982	3
Asgrow	AG28XF3 § ↗	RXF	2.8	R	73.6	10.9	0	138.0	975	4
FS HISOY	HS 29F10 ↗	RXF	2.9	R	70.4	12.0	0	95.3	933	5
Hoegemeyer	2831 E § ↗	E3	2.8	R	70.3	11.7	0	122.7	931	6
Zinesto	Z2902E ↗	E3	2.9	NA	69.5	12.4	0	122.7	921	7
Zinesto	Z2700E ↗	E3	2.7	R	69.2	12.2	0	122.7	917	8
Pioneer	P26T23E § ↗	E3	2.6	R	69.1	11.4	0	138.0	916	9
P3 Genetics	2229E ↗	E3	2.9	R	69.0	12.3	0	130.0	914	10
Pioneer	P29T37E § ↗	E3	2.9	NA	68.4	11.3	3	122.0	906	11
NuTech	27N03E ↗	E3	2.7	R	68.2	12.2	0	122.0	904	12
FS HISOY	HS 26F20 ↗	RXF	2.6	R	67.8	10.9	0	130.0	898	13
Hoegemeyer	2763 E ↗	E3	2.7	R	67.8	11.9	0	138.0	898	14
Golden Harvest	GH2653XF § ↗	RXF	2.6	R	67.6	12.0	0	130.0	896	15
Genesis	G2960E ↗	E3	2.9	R	67.6	12.4	0	114.7	896	16
Kruger	K2816XF ↗	RXF	2.8	R	67.6	11.5	3	122.7	896	17
Xitavo	XO 2832E ↗	E3	2.8	R	67.1	12.2	0	130.0	889	18
Latham	L 2786 XF ↗	RXF	2.7	R	67.0	12.4	0	138.0	888	19
P3 Genetics	1928E GC ↗	E3	2.8	R	66.8	12.1	0	130.0	885	20
Cornelius	CB27XF34 ↗	RXF	2.7	R	66.4	11.9	0	122.0	880	21
Xitavo	XO 2921E ↗	E3	2.9	R	66.4	12.2	0	138.0	880	22
Latham	L 2894 E3 ↗	E3	2.8	R	66.1	11.9	3	122.0	876	23
P3 Genetics	2326E ↗	E3	2.6	R	66.0	12.3	0	122.0	874	24
FS HISOY	HS 26E20 ↗	E3	2.6	R	65.4	12.2	5	130.0	867	25
Golden Harvest	GH2922E3 ↗	E3	2.9	R	65.3	11.9	0	122.0	865	26
Renk	RS2-271E ↗	E3	2.7	R	65.1	11.8	0	122.0	863	27
Kruger	K2793XF ↗	RXF	2.7	R	65.1	12.2	0	130.0	863	28
Federal	F2830N GC ↗	RXF	2.8	R	64.6	11.8	0	138.0	856	29
NuTech	26N06E ↗	E3	2.6	R	64.4	11.7	3	122.7	853	30
CROPLAN	CP2520E CK	E3	2.5	R	63.5	11.7	0	114.7	841	33

Corey Rozenboom

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Averages = **66.5** **12.0** **0** **125.9** **881**

LSD (0.10) = 2.9 0.4 ns

LSD (0.25) = 1.5 0.2 ns

C.V. = 4.1 Historic yield: 59.14 bu/a, 7 yr(s)

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

Report Date: 10/14/2022

† 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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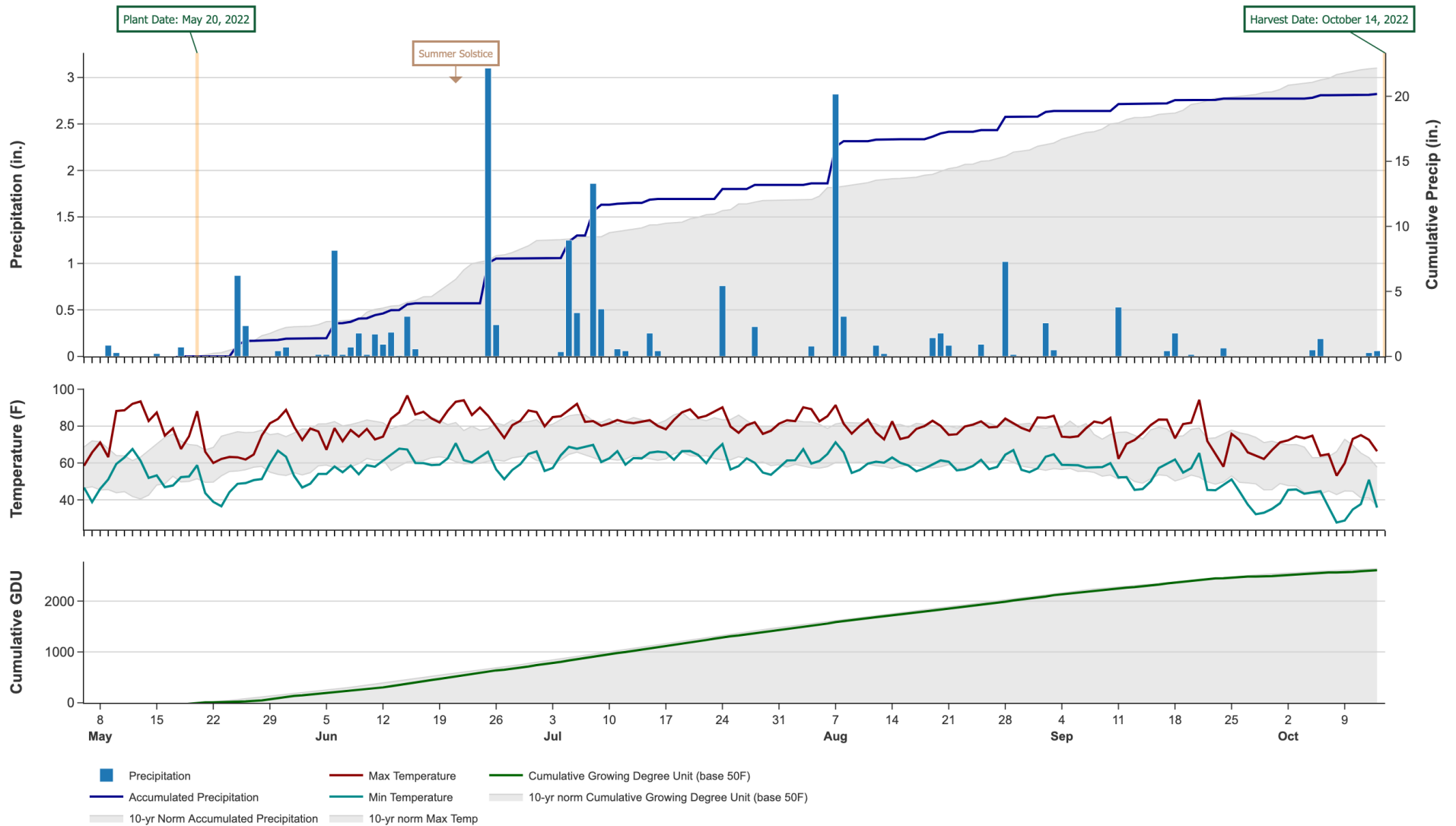
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2022 Soybeans - Iowa North Central [IANC]

Weather Conditions Summary at WATERLOO, IA

Weather Data Retrieved: 10/14/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	1.6 3.8 (-2.2)	6.2 6.3 (-0.1)	5.7 3.5 (+2.2)	5.2 3.9 (+1.4)	1.4 4.5 (-3.1)	0.4 1.8 (-1.5)	20.5 23.8 (-3.3)
GDU Normal (Diff)	356 301 (+54)	596 614 (-18)	703 705 (-2)	629 617 (+11)	445 438 (+6)	117 102 (+14)	2846 2779 (+66)



* 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 Central [IANC]

Early-Season Test Products (34 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	CB25XF99	RXF	R	2.5	PG+
Croplan	CP2520E CK	E3	R	2.5	Untreated
FS HiSOY	HS 23E10	E3,ST	R	2.3	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	G2550E	E3	R	2.5	EcTC,SA
Genesis	G2570ES	E3,ST	R	2.5	EcTC,SA
Golden Harvest	GH2292E3 §	E3	MR	2.2	CMBV,SA
Golden Harvest	GH2313XF	RXF	R	2.3	CMBV,SA
Hoegemeyer	2123 E	E3	R	2.1	Lum,Lu,IL
Hoegemeyer	2553 E	E3	R	2.5	Lum,Lu,IL
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 2458 E3	E3	R	2.4	SS+,SA
Latham	L 2494 XF	RXF	R	2.4	SS+,SA
NK Brand	NK20-B6E3S	E3,ST	R	2.0	CMBV,SA
NK Brand	NK23-T9XF	RXF	R	2.3	CMBV,SA
NK Brand	NK25-C9XF §	RXF	MR	2.5	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+
Stine	22EF23 §	E3	R	2.2	SFI
Stine	23EE06 §	E3	S	2.3	NA
Titan Pro	TP 25E22	E3	R	2.5	SA,A,R,G
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
Xitavo	XO 2501E	E3	R	2.5	PV,IL,OB,Rey

2022 Soybeans - Iowa North Central [IANC]

Full-Season Test Products (42 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG27XF3 §	RXF	R	2.7	ACi,IL
Asgrow	AG28XF3 §	RXF	R	2.8	ACi,IL
Cornelius	CB27XF34	RXF	R	2.7	PG+
Cornelius	CB29XF35	RXF	S	2.9	PG+
Croplan	CP2520E CK	E3	R	2.5	Untreated
Federal	F2830N GC	RXF	R	2.8	Treated
Federal	F2930N GC	RXF	R	2.9	Treated
FS HiSOY	HS 26E20	E3	R	2.6	ACi,SA,B-200
FS HiSOY	HS 26F20	RXF	R	2.6	ACi,SA,B-200
FS HiSOY	HS 28F20	RXF,ST	R	2.8	ACi,SA,B-200
FS HiSOY	HS 29F10	RXF	R	2.9	ACi,SA,B-200
Genesis	G2960E	E3	R	2.9	EcTC,SA
Golden Harvest	GH2653XF §	RXF	R	2.6	CMBV,SA
Golden Harvest	GH2922E3	E3	R	2.9	CMBV,SA
Hoegemeyer	2763 E	E3	R	2.7	Lum,Lu,IL
Hoegemeyer	2831 E §	E3	R	2.8	Lum,Lu,IL
Kruger	K2604XF	RXF	R	2.6	ACi,IL
Kruger	K2793XF	RXF	R	2.7	ACi,IL
Kruger	K2816XF	RXF	R	2.8	ACi,IL
Latham	L 2638 E3	E3	R	2.6	SS+,SA
Latham	L 2786 XF	RXF	R	2.7	SS+,SA
Latham	L 2894 E3	E3	R	2.8	SS+,SA
NK Brand	NK29-Z4E3 §	E3	R	2.9	CMBV,SA
NuTech	26N06E	E3	R	2.6	Lum,Lu,IL
NuTech	27N03E	E3	R	2.7	Lum,Lu,IL
NuTech	29N02E	E3	R	2.9	Lum,Lu,IL
P3 Genetics	1928E GC	E3	R	2.8	PG+
P3 Genetics	2229E	E3	R	2.9	PG+
P3 Genetics	2326E	E3	R	2.6	PG+
Pioneer	P26T23E §	E3	R	2.6	Untreated
Pioneer	P26T57E §	E3	R	2.6	Untreated
Pioneer	P29T37E §	E3	NA	2.9	Untreated
Renk	RS2-271E	E3	R	2.7	EcTC,SA
Stine	26EC32 §	E3	R	2.6	SFI
Stine	26EF23 §	E3	R	2.6	SFI
Xitavo	XO 2613E	E3	R	2.6	PV,IL,OB,Rey
Xitavo	XO 2832E	E3	R	2.8	PV,IL,OB,Rey
Xitavo	XO 2921E	E3	R	2.9	PV,IL,OB,Rey
Xitavo	XO 2963E	E3	R	2.9	PV,IL,OB,Rey
Zinesto	Z2603E	E3	R	2.6	DST4
Zinesto	Z2700E	E3	R	2.7	DST4
Zinesto	Z2902E	E3	NA	2.9	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
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.