

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

2023 Soybeans Top 30 Harvest Report

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

Early-Season Test	Maturity Group 1.7 - 2.0 S2023IANO04a
Top 30 of 41	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Keystone Nxt, Atrazine, Roundup
SOIL DESCRIPTION:	Readlyn silt loam, moderately drained, non-irrigated
SOIL CONDITION:	very high P, high K, 6.6 pH, 5.2% OM, 20.6 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	2,4-D Amine, Zidua Sc, Liberty 280 SI, Glyphosate, Clethodim 2ec, Veltyma, Bifen
FERTILITY - Applied N:	AgroLiquid FertiRain, Kalibrate & Micro 500
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 17 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 125.5 /A

TEST COMMENTS:

Wet weather during the first couple weeks of May led to some planting delays for soybeans in the area. Once planted, seedlings emerged quickly and had good vigor. The major yield-limiting factor for Chickasaw County this season has been the development of drought throughout the season. The moisture from the spring was very welcome, but by July, a moderate D1 drought had formed. By harvest, the drought had progressed into the extreme D3 drought intensity category. From planting through Oct 1 this farm was 12.8" below the 10-yr average. Plants stood well at harvest, but the effect of dry soils through seed filling was noticeable as the overall seed size was small.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Xitavo	XO 1632E ↗	E3	1.6	R	60.5	11.3	1	124.7	762	1
Apex	AE1930 ↗	E3	1.9	R	59.0	10.9	2	130.0	743	2
P3 Genetics	2216E ↗	E3	1.6	R	58.9	11.3	1	124.7	742	3
Pioneer	P19A66E § ↗	E3	1.9	NA	58.3	10.9	1	124.7	735	4
Zinesto	Z1702E ↗	E3	1.7	NA	58.2	11.2	2	127.3	733	5
FS HiSOY	HS 15E10 ↗	E3	1.5	R	58.1	11.3	2	122.3	732	6
P3 Genetics	2218E ↗	E3	1.8	R	58.0	11.1	1	124.7	731	7
Golden Harvest	GH2004XF § ↗	RXF	2.0	MR	57.8	10.8	1	124.7	728	8
Hefty	H18E3 ↗	E3	1.8	R	57.7	10.8	1	130.0	727	9
NuTech	20N05E ↗	E3	2.0	R	57.3	10.9	1	122.3	722	10
Asgrow	AG19XF3 § ↗	RXF	1.9	R	56.3	10.9	1	125.0	709	11
FS HiSOY	HS 15F30 ↗	RXF	1.5	R	56.1	11.2	1	119.7	707	12
Genesis	G1980E ↗	E3	1.9	R	55.9	11.0	1	127.3	704	13
NuTech	16N04E ↗	E3	1.6	R	55.6	10.8	1	127.3	701	14
NuTech	18N03E ↗	E3	1.8	R	55.2	10.7	1	122.3	696	15
Xitavo	XO 1971E ↗	E3	1.9	R	55.1	10.9	1	127.3	694	16
FS HiSOY	HS 18F20 ↗	RXF	1.8	R	53.6	11.1	1	125.0	675	17
Genesis	G1760E ↗	E3	1.7	R	53.6	11.3	1	127.3	675	18
Xitavo	XO 1761E ↗	E3	1.7	R	53.3	10.7	1	122.3	672	19
Titan Pro	TP 18E22 GC ↗	E3	1.8	R	53.3	10.8	1	130.0	672	20
Cornelius	CB16XF21 ↗	RXF	1.6	R	53.3	11.2	1	124.7	672	21
Pioneer	P18A73E § ↗	E3	1.8	NA	52.9	10.5	1	125.0	667	22
P3 Genetics	2320E ↗	E3	2.0	R	52.9	11.2	2	124.7	667	23
Genesis	G1950E ↗	E3	1.9	R	52.6	11.1	1	127.3	663	24
Jacobsen	J1873E3 ↗	E3	1.8	R	52.5	11.1	1	124.7	662	25
Stine	19EG92 § ↗	E3	1.9	R	52.1	11.2	1	124.7	656	26
Xitavo	XO 1822E ↗	E3	1.8	R	52.0	11.0	1	122.3	655	27
Zinesto	Z2002E ↗	E3	2.0	NA	51.8	11.2	1	127.3	653	28
Stine	20EG02 § ↗	E3	2.0	R	51.0	11.6	1	127.3	643	29
Hefty	H20E3 ↗	E3	2.0	R	51.0	11.1	1	127.3	643	30
CROPLAN	CP2123E CK	E3	2.1	MR	50.6	10.9	3	122.0	638	33
					Averages =	53.7	11.0	1	125.5	677
					LSD (0.10) =	3.1	0.2	1		
					LSD (0.25) =	1.6	0.1	0		
					C.V. =	5.4	Historic yield: 56.31 bu/a, 21 yr(s)			

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Yield & Income Factors:

Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.02 Prices: GMO = \$12.60

Report Date: 10/09/2023

† 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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2023 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 S2023IANO04b
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Keystone Nxt, Atrazine, Roundup
SOIL DESCRIPTION:	Readlyn silt loam, moderately drained, non-irrigated
SOIL CONDITION:	very high P, high K, 6.6 pH, 5.2% OM, 20.6 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	2,4-D Amine, Zidua Sc, Liberty 280 SI, Glyphosate, Clethodim 2ec, Veltyma, Bifen
FERTILITY - Applied N:	AgroLiquid FertiRain, Kalibrate & Micro 500
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 17 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 127.4 /A

TEST COMMENTS:

Wet weather during the first couple weeks of May led to some planting delays for soybeans in the area. Once planted, seedlings emerged quickly and had good vigor. The major yield-limiting factor for Chickasaw County this season has been the development of drought throughout the season. The moisture from the spring was very welcome, but by July, a moderate D1 drought had formed. By harvest, the drought had progressed into the extreme D3 drought intensity category. From planting through Oct 1 this farm was 12.8" below the 10-yr average. Plants stood well at harvest, but the effect of dry soils through seed filling was noticeable as the overall seed size was small.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
P3 Genetics	2322E ↗	E3	2.2	R	64.4	11.2	1	127.3	811	1
Asgrow	AG21XF2 § ↗	RXF	2.1	R	63.0	10.9	1	127.3	794	2
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	63.0	10.9	2	127.3	794	3
Cornelius	CB22XF52 ↗	RXF	2.2	R	62.8	10.5	1	124.7	791	4
Genesis	G2570ES ↗	E3,ST	2.5	R	62.0	11.0	1	130.0	781	5
Pioneer	P21A53E § ↗	E3	2.1	NA	60.7	10.8	1	127.3	765	6
FS HiSOY	HS 25E30 ↗	E3	2.5	R	60.4	11.2	1	127.3	761	7
Zinesto	Z2202E ↗	E3	2.2	NA	60.3	11.0	1	127.3	760	8
Zinesto	Z2101E ↗	E3	2.1	R	60.3	11.1	1	130.0	760	9
Zinesto	Z2303E ↗	E3	2.3	R	59.6	11.0	1	130.0	751	10
Genesis	G2180E ↗	E3	2.1	R	59.2	11.5	1	124.7	746	11
Genesis	G2480E ↗	E3	2.4	R	59.0	11.2	1	127.3	743	12
Kruger	K2115XF ↗	RXF	2.1	R	58.3	11.1	1	127.3	735	13
Golden Harvest	GH2313XF § ↗	RXF	2.3	R	58.2	11.1	2	130.0	733	14
FS HiSOY	HS 21E20 ↗	E3	2.1	R	58.2	11.1	2	130.0	733	15
Renk	RS214NXF ↗	RXF	2.1	R	57.5	11.2	1	130.0	724	16
Hoegemeyer	2254 E GC ↗	E3	2.2	R	57.4	11.1	1	127.3	723	17
Xitavo	XO 2323E ↗	E3	2.3	R	57.2	11.1	2	122.0	721	18
Xitavo	XO 2181E ↗	E3	2.1	R	56.6	11.1	1	124.7	713	19
Stine	21EG32 § ↗	E3	2.1	R	56.1	11.4	1	130.0	707	20
Titan Pro	TP 22E23 ↗	E3	2.2	R	55.8	11.2	1	127.3	703	21
Xitavo	XO 2444E ↗	E3,ST	2.4	R	55.5	11.2	1	124.7	699	22
FS HiSOY	HS 24E30 ↗	E3	2.4	R	55.4	11.1	2	130.0	698	23
Apex	AE2130 ↗	E3	2.1	MR	55.3	10.8	1	125.0	697	24
NuTech	22N03E ↗	E3	2.2	R	55.1	11.1	2	127.3	694	25
Xitavo	XO 2282E ↗	E3	2.2	R	54.5	11.0	1	130.0	687	26
Zinesto	Z2401E ↗	E3	2.4	R	54.4	10.9	2	127.3	685	27
Genesis	G2550E ↗	E3	2.5	R	54.3	10.8	1	127.3	684	28
NuTech	24N05E ↗	E3	2.4	R	54.3	11.0	1	130.0	684	29
Kruger	K2294XF ↗	RXF	2.2	R	54.3	11.3	1	127.3	684	30
CROPLAN	CP2123E CK	E3	2.1	MR	50.1	11.0	1	124.7	631	35
					Averages =	57.1	11.1	1	127.4	720
					LSD (0.10) =	2.6	0.1	ns		
					LSD (0.25) =	1.4	0.1	ns		
					C.V. =	4.3	Historic yield: 56.31 bu/a, 21 yr(s)			

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Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.02 Prices: GMO = \$12.60

Report Date: 10/09/2023

† 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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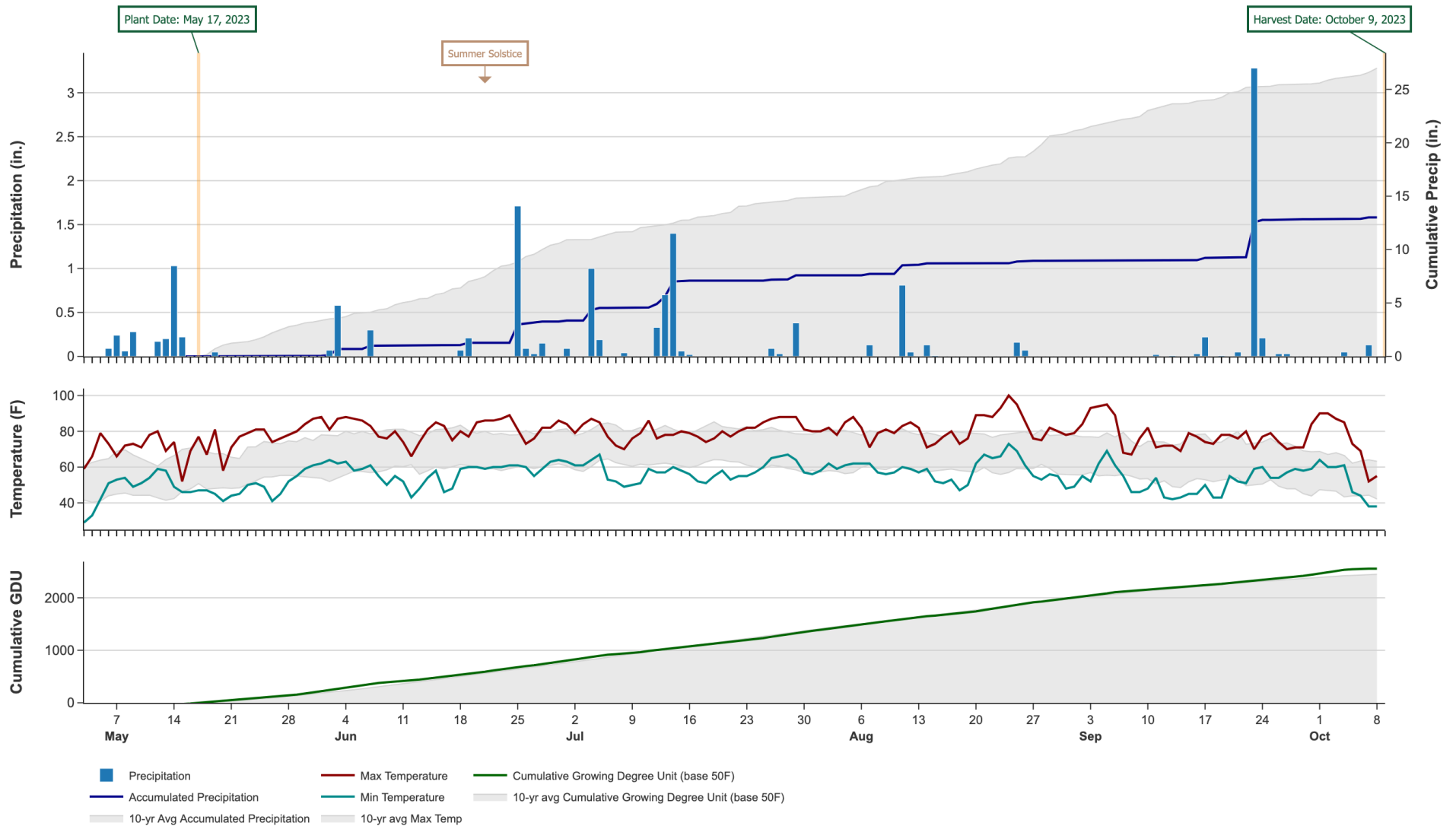
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2023 Soybeans - Iowa North [IANO]

Weather Conditions Summary at NEW HAMPTON, IA

Weather Data Retrieved: 10/09/2023

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	2.3 5.3 (-3.0)	3.2 7.3 (-4.1)	4.3 4.3 (0.0)	1.4 6.0 (-4.6)	3.9 4.7 (-0.8)	0.2 1.5 (-1.3)	15.3 29.1 (-13.8)
GDU Avg (Diff)	356 288 (+67)	582 573 (+8)	588 652 (-64)	607 578 (+28)	460 413 (+46)	115 61 (+53)	2708 2567 (+140)



* 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.

2023 Soybeans - Iowa North [IANO]

Early-Season Test Products (41 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1930	E3	R	1.9	PU
Asgrow	AG18XF1 §	RXF	R	1.8	ACi,IL
Asgrow	AG19XF3 §	RXF	R	1.9	ACi,IL
Cornelius	CB16XF21	RXF	R	1.6	PG+
Cornelius	CB18XF88	RXF	R	1.8	PG+
Croplan	CP2123E CK	E3	MR	2.1	Untreated
FS HiSOY	HS 15E10	E3	R	1.5	ACi,SA
FS HiSOY	HS 15F30	RXF	R	1.5	ACi,SA
FS HiSOY	HS 18E30	E3	R	1.8	ACi,SA
FS HiSOY	HS 18F20	RXF	R	1.8	ACi,SA
Genesis	G1760E	E3	R	1.7	EcQ,NF,NH,SA
Genesis	G1950E	E3	R	1.9	EcQ,NF,NH,SA
Genesis	G1980E	E3	R	1.9	EcQ,NF,NH,SA
Golden Harvest	GH1973E3S §	E3,ST	R	1.9	CMB-APX,SA
Golden Harvest	GH2004XF §	RXF	MR	2.0	CMB-APX,SA
Hefty	H18E3	E3	R	1.8	DST5
Hefty	H20E3	E3	R	2.0	DST5
Jacobsen	J1873E3	E3	R	1.8	Treated
Jacobsen	J1942E3	E3	R	1.9	Treated
Kruger	K1804XF	RXF	R	1.8	ACi,IL
Kruger	K1914XF	RXF	R	1.9	ACi,IL
NuTech	16N04E	E3	R	1.6	Lum,Lu,IL
NuTech	18N03E	E3	R	1.8	Lum,Lu,Lud,IL
NuTech	20N05E	E3	R	2.0	Lum,Lu,Lud,IL
P3 Genetics	2216E	E3	R	1.6	PG+
P3 Genetics	2218E	E3	R	1.8	PG+
P3 Genetics	2320E	E3	R	2.0	PG+
Pioneer	P18A73E §	E3	NA	1.8	Untreated
Pioneer	P19A66E §	E3	NA	1.9	Untreated
Stine	19EG92 §	E3	R	1.9	ACi
Stine	20EG02 §	E3	R	2.0	ACi
Titan Pro	TP 18E22 GC	E3	R	1.8	Untreated
Titan Pro	TP 20E22	E3	R	2.0	SA,A,R,TU
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	Z1702E	E3	NA	1.7	DST5
Zinesto	Z1802E	E3	NA	1.8	DST5
Zinesto	Z1902E	E3	NA	1.9	DST5
Zinesto	Z2002E	E3	NA	2.0	DST5

2023 Soybeans - Iowa North [IANO]

Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE2130	E3	MR	2.1	PU
Asgrow	AG21XF2 §	RXF	R	2.1	ACi,IL
Asgrow	AG25XF3 §	RXF	R	2.5	ACi,IL
Cornelius	CB22XF52	RXF	R	2.2	PG+
Croplan	CP2123E CK	E3	MR	2.1	Untreated
FS HiSOY	HS 21E20	E3	R	2.1	ACi,SA
FS HiSOY	HS 24E30	E3	R	2.4	ACi,SA
FS HiSOY	HS 24F00	RXF,ST	R	2.4	ACi,SA
FS HiSOY	HS 25E30	E3	R	2.5	ACi,SA
Genesis	G2180E	E3	R	2.1	EcQ,NF,NH,SA
Genesis	G2480E	E3	R	2.4	EcQ,NF,NH,SA
Genesis	G2550E	E3	R	2.5	EcQ,NF,NH,SA
Genesis	G2570ES	E3,ST	R	2.5	EcQ,NF,NH,SA
Golden Harvest	GH2292E3 §	E3	MR	2.2	CMB-APX,SA
Golden Harvest	GH2313XF §	RXF	R	2.3	CMB-APX,SA
Hoegemeyer	2254 E GC	E3	R	2.2	Lum, LumT, IL
Kruger	K2115XF	RXF	R	2.1	ACi,IL
Kruger	K2294XF	RXF	R	2.2	ACi,IL
NuTech	22N03E	E3	R	2.2	Lum,Lu,Lud,IL
NuTech	24N05E	E3	R	2.4	Lum,Lu,IL
NuTech	25N04E	E3	R	2.5	Lum,Lu,IL
P3 Genetics	2322E	E3	R	2.2	PG+
Pioneer	P21A53E §	E3	NA	2.1	Untreated
Renk	RS214NXF	RXF	R	2.1	Treated
Stine	21EG32 §	E3	R	2.1	ACi
Stine	24FD32 §	RXF	R	2.4	ACi
Titan Pro	TP 22E23	E3	R	2.2	SA,A,R,TU
Titan Pro	TP 25E22	E3	R	2.5	SA,A,R,TU
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 2444E	E3,ST	R	2.4	PV,IL,OB,Rey
Zinesto	Z2101E	E3	R	2.1	DST5
Zinesto	Z2202E	E3	NA	2.2	DST5
Zinesto	Z2303E	E3	R	2.3	DST5
Zinesto	Z2401E	E3	R	2.4	DST5

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	XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ACi,SA	Acceleron® Standard Insecticide-Fungicide, Saltro®
CMB-APX,SA	CruiserMaxx® APX with Saltro®
DST5	Dominance 5 ST
EcQ,NF,NH,SA	Eclipse US Total Quad-R, N-Force, N-Hibit, Saltro
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
Lum,Lu,Lud,IL	LumiGEN™, Luminesa, Lumiderm, ILeVO
Lum, LumT, IL	LumiGEN™, LumiTreo, ILEVO
PG+	Profit Guard +
PU	Protect Ultra
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
SA,A,R,TU	Saltro, AllegianceFL, Redigo480, TriUp
Treated	Treated, unspecified
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.