

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

2023 Soybeans Top 30 Harvest Report

Iowa North [IANO] OSAGE, IA

Dale Hemann, Mitchell County, IA 50461

Early-Season Test	Maturity Group 1.6 - 2.0 S2023IANO03a
Top 30 of 41	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Balance Flexx, Impactz
SOIL DESCRIPTION:	Klinger silty clay loam, well drained, non-irrigated
SOIL CONDITION:	high P, medium K, 7.0 pH, 3.3% OM, 17.1 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Authority First Df, Roundup Power Max, Noventa, Outlook, Section Three
Applied N-P-K (units):	0-20-31
SEEDED - RATE - ROW:	May 23 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 5 124.7 /A

TEST COMMENTS:

The first part of May was really wet. From May 12-16, 6.5" of rain fell and left fields saturated. Some replanting in the area was necessary due to stand loss from seed sitting in cool and wet soils for too long. For soybeans that were planted later in May after the fields dried up, stands were good. But as the season progressed, so did drought conditions. By July a moderate drought had developed over Mitchell County and by the first part of October, the drought had increased in intensity to a D3 extreme rating.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
FS HISOY	HS 18F20 ↗	RXF	1.8	R	59.9	11.2	1	124.7	755	1
Cornelius	CB18XF88 ↗	RXF	1.8	R	58.7	10.9	2	122.3	740	2
Kruger	K1804XF ↗	RXF	1.8	R	57.7	11.0	2	122.0	727	3
Asgrow	AG19XF3 § ↗	RXF	1.9	R	54.7	11.2	1	127.3	689	4
Genesis	G1980E ↗	E3	1.9	R	54.2	11.3	1	127.3	683	5
Zinesto	Z1702E ↗	E3	1.7	NA	54.0	10.8	1	127.3	680	6
FS HiSOY	HS 18E30 ↗	E3	1.8	R	54.0	11.2	1	127.3	680	7
Xitavo	XO 1822E ↗	E3	1.8	R	53.5	11.1	1	115.0	674	8
NuTech	20N05E ↗	E3	2.0	R	53.5	11.1	1	130.0	674	9
Zinesto	Z1802E ↗	E3	1.8	NA	53.2	11.0	1	117.3	670	10
Stine	19EG92 § ↗	E3	1.9	R	53.0	11.3	1	124.7	668	11
Golden Harvest	GH2004XF § ↗	RXF	2.0	MR	52.9	10.7	1	122.0	667	12
Xitavo	XO 1761E ↗	E3	1.7	R	52.6	10.8	1	122.3	663	13
Jacobsen	J1873E3 ↗	E3	1.8	R	52.6	10.8	1	127.3	663	14
P3 Genetics	2320E ↗	E3	2.0	R	52.4	11.1	1	124.7	660	15
Kruger	K1914XF ↗	RXF	1.9	R	52.4	10.9	1	124.7	660	16
Titan Pro	TP 20E22 ↗	E3	2.0	R	52.4	11.3	1	127.3	660	17
Asgrow	AG18XF1 § ↗	RXF	1.8	R	52.3	10.8	1	130.0	659	18
Xitavo	XO 1632E ↗	E3	1.6	R	51.7	11.1	1	122.3	651	19
Xitavo	XO 1971E ↗	E3	1.9	R	51.5	11.1	1	127.3	649	20
P3 Genetics	2218E ↗	E3	1.8	R	51.4	11.2	1	124.7	648	21
Apex	AE1930 ↗	E3	1.9	R	51.3	11.1	1	122.3	646	22
Genesis	G1760E ↗	E3	1.7	R	51.2	11.0	1	122.3	645	23
Golden Harvest	GH1973E3S § ↗	E3,ST	1.9	R	51.1	11.0	1	127.3	644	24
Titan Pro	TP 18E22 GC ↗	E3	1.8	R	51.0	10.7	1	124.7	643	25
NuTech	16N04E ↗	E3	1.6	R	51.0	10.6	1	127.3	643	26
FS HISOY	HS 15E10 ↗	E3	1.5	R	50.2	11.1	1	125.0	633	27
Stine	20EG02 § ↗	E3	2.0	R	50.2	11.6	1	124.7	633	28
P3 Genetics	2216E ↗	E3	1.6	R	49.2	11.1	1	125.0	620	29
Jacobsen	J1942E3 ↗	E3	1.9	R	49.0	11.4	1	127.3	617	30
CROPLAN	CP2123E CK	E3	2.1	MR	47.5	10.9	1	124.7	598	35

Corey Rozenboom

Corey Rozenboom

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Averages =	51.1	11.0	1	124.7	644
LSD (0.10) =	3.4	0.2	ns		
LSD (0.25) =	1.8	0.1	ns		
C.V. =	6.3				

Historic yield: 57.97 bu/a, 12 yr(s)

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

Report Date: 10/06/2023

Revised: 10/23/2023 Corrected the test maturity range, no data changes.

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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Dale Hemann, Mitchell County, IA 50461

Full-Season Test	Maturity Group 2.1 - 2.5 S2023IANO03b
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Balance Flexx, Impactz
SOIL DESCRIPTION:	Klinger silty clay loam, well drained, non-irrigated
SOIL CONDITION:	high P, medium K, 7.0 pH, 3.3% OM, 17.1 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Authority First Df, Roundup Power Max, Noventa, Outlook, Section Three
Applied N-P-K (units):	0-20-31
SEEDED - RATE - ROW:	May 23 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 5 125.5 /A

TEST COMMENTS:

The first part of May was really wet. From May 12-16, 6.5" of rain fell and left fields saturated. Some replanting in the area was necessary due to stand loss from seed sitting in cool and wet soils for too long. For soybeans that were planted later in May after the fields dried up, stands were good. But as the season progressed, so did drought conditions. By July a moderate drought had developed over Mitchell County and by the first part of October, the drought had increased in intensity to a D3 extreme rating.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
FS HiSOY	HS 24E30 ↗	E3	2.4	R	50.6	11.2	1	127.3	638	1
Genesis	G2480E ↗	E3	2.4	R	50.2	11.4	1	120.0	633	2
FS HiSOY	HS 24F00 ↗	RXF,ST	2.4	R	50.2	12.2	1	125.0	633	3
Golden Harvest	GH2313XF § ↗	RXF	2.3	R	49.9	11.5	3	122.3	629	4
Genesis	G2570ES ↗	E3,ST	2.5	R	49.5	11.4	1	124.7	624	5
Asgrow	AG21XF2 § ↗	RXF	2.1	R	49.2	11.6	1	127.3	620	6
Cornelius	CB22XF52 ↗	RXF	2.2	R	49.1	10.6	2	130.0	619	7
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	48.9	11.1	3	124.7	616	8
FS HiSOY	HS 25E30 ↗	E3	2.5	R	48.7	11.7	1	130.0	614	9
NuTech	24N05E ↗	E3	2.4	R	48.6	11.4	1	130.0	612	10
Titan Pro	TP 22E23 ↗	E3	2.2	R	48.6	11.6	1	127.3	612	11
FS HiSOY	HS 21E20 ↗	E3	2.1	R	48.4	11.4	2	130.0	610	12
Xitavo	XO 2444E ↗	E3,ST	2.4	R	48.2	11.5	1	117.3	607	13
Renk	RS214NXF ↗	RXF	2.1	R	48.1	11.9	2	130.0	606	14
Xitavo	XO 2282E ↗	E3	2.2	R	48.0	11.7	1	122.3	605	15
Titan Pro	TP 25E22 ↗	E3	2.5	R	47.9	11.4	1	125.0	604	16
Zinesto	Z2303E ↗	E3	2.3	R	47.8	11.4	1	127.3	602	17
Kruger	K2294XF ↗	RXF	2.2	R	47.2	11.8	1	124.7	595	18
P3 Genetics	2322E ↗	E3	2.2	R	46.1	11.5	1	122.3	581	20
NuTech	22N03E ↗	E3	2.2	R	46.0	11.4	1	119.7	580	21
Stine	21EG32 § ↗	E3	2.1	R	45.8	11.8	1	122.3	577	22
Genesis	G2550E ↗	E3	2.5	R	45.2	11.3	1	130.0	570	23
NuTech	25N04E ↗	E3	2.5	R	45.0	12.0	1	127.3	567	24
Asgrow	AG25XF3 § ↗	RXF	2.5	R	44.6	12.2	1	122.3	562	25
Xitavo	XO 2323E ↗	E3	2.3	R	44.4	11.5	1	127.3	559	26
Hoegemeyer	2254 E GC ↗	E3	2.2	R	44.3	11.3	1	127.3	558	27
Stine	24FD32 § ↗	RXF	2.4	R	44.3	11.5	1	124.7	558	28
Xitavo	XO 2181E ↗	E3	2.1	R	44.2	11.5	1	124.7	557	29
Zinesto	Z2401E ↗	E3	2.4	R	43.4	10.5	1	124.7	547	30
Pioneer	P21A53E § ↗	E3	2.1	NA	43.2	11.0	1	127.3	544	31
CROPLAN	CP2123E CK	E3	2.1	MR	46.9	11.0	1	120.0	591	19

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Averages =	46.4	11.5	1	125.5	585
LSD (0.10) =	2.6	0.3	1		
LSD (0.25) =	1.4	0.2	0		
C.V. =	5.3				

Historic yield: 57.97 bu/a, 12 yr(s)

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

Report Date: 10/06/2023

Revised: 10/23/2023 Corrected the test maturity range, no data changes.

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

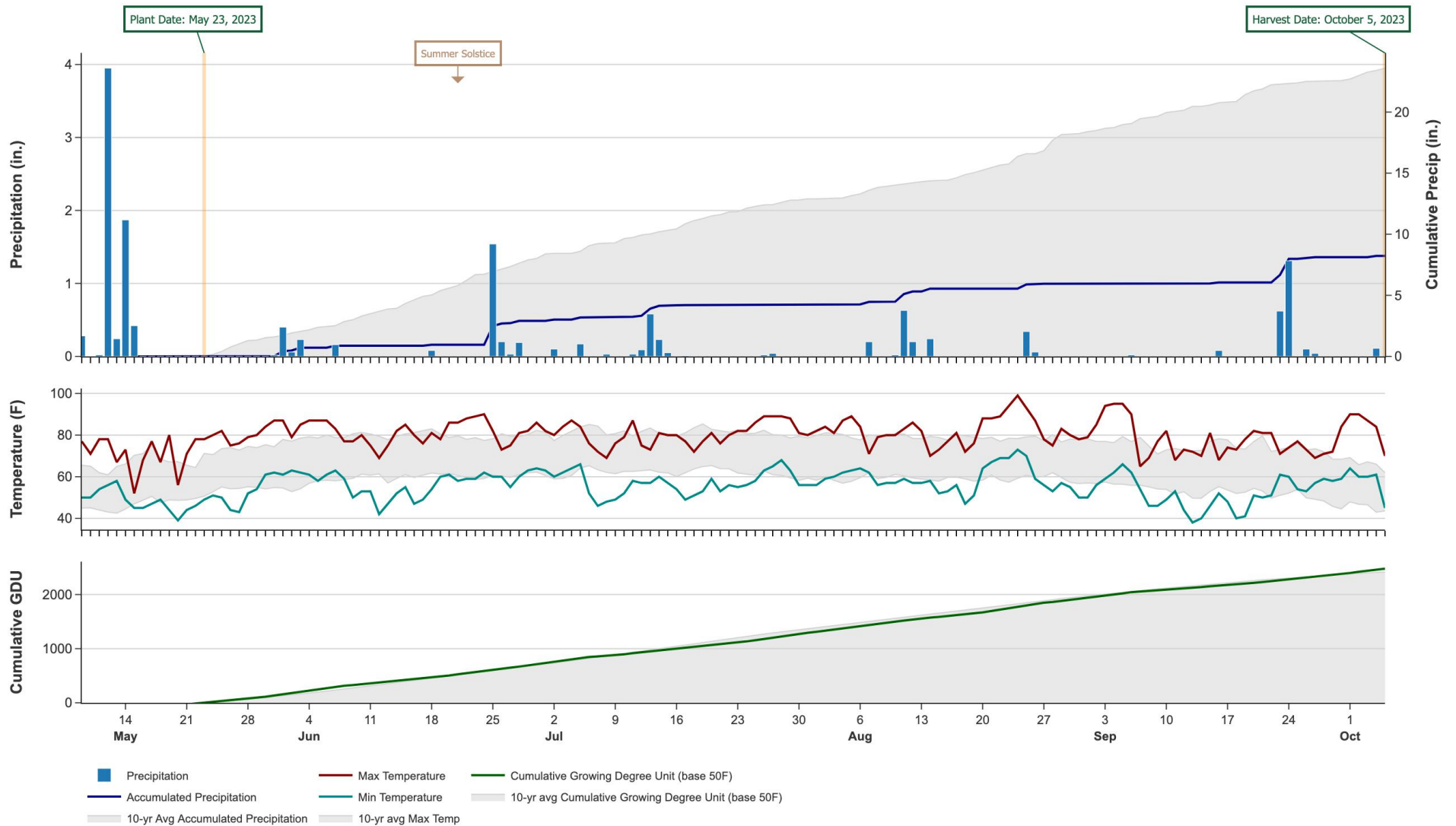
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2023 Soybeans - Iowa North [IANO]

Weather Conditions Summary at OSAGE, IA

Weather Data Retrieved: 10/23/2023

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	6.8 4.0 (+2.8)	2.9 6.4 (-3.5)	1.4 4.9 (-3.5)	1.7 5.3 (-3.6)	2.2 4.3 (-2.2)	0.1 1.0 (-0.9)	15.0 26.0 (-11.0)
GDU Avg (Diff)	302 240 (+61)	580 584 (-4)	578 670 (-92)	620 592 (+27)	460 417 (+42)	104 40 (+63)	2644 2545 (+98)



* 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, LumT, IL	LumiGEN™, LumiTreo, ILEVO
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
Lum,Lu,Lud,IL	LumiGEN™, Luminesa, Lumiderm, 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.