

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

## 2023 Soybeans Top 30 Harvest Report

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

<b>Early-Season Test</b>	Maturity Group 2.1 - 2.5 S2023IANC04a
<b>Top 30 of 36</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn, Rye Cover Crop / Tripleflex li, Glyphosate, Halex, Atrazine
<b>SOIL DESCRIPTION:</b>	Marquis loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	medium P, medium K, 5.9 pH, 3.0% OM, 16.0 CEC
<b>TILLAGE/CULTIVATION:</b>	Strip-Till
<b>PEST MANAGEMENT:</b>	Sonic, Glystar, Roundup Powermax 3, Noventa, Outlook, Section Three
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	May 16 144.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 7 128.2 /A

### TEST COMMENTS:

Black Hawk County experienced a very dry season which ended the growing season in a D3 extreme drought. Even with regular showers from June, July and August, they just weren't enough to keep up with the crop demands during critical growth stages. As a result, yield potential was reduced proportionately with available moisture in the soil profile. The dry conditions held off foliar diseases for the most part and plants appeared clean and healthy during the season. No lodging was observed at harvest.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Genesis	G2480E ↗	E3	2.4	R	<b>60.7</b>	11.3	1	132.3	765	1
Titan Pro	TP 25E22 ↗	E3	2.5	R	<b>60.1</b>	11.1	2	124.7	757	2
P3 Genetics	2325E ↗	E3	2.5	R	<b>60.1</b>	11.0	1	130.0	757	3
FS HiSOY	HS 25E30 ↗	E3	2.5	R	<b>59.2</b>	11.0	1	124.7	746	4
Stine	24FD32 § ↗	RXF	2.4	R	<b>58.6</b>	11.4	1	130.0	738	5
Hoegemeyer	2484 E ↗	E3	2.4	R	<b>57.5</b>	11.0	1	130.0	724	6
P3 Genetics	2322E ↗	E3	2.2	R	<b>57.1</b>	11.6	1	130.0	719	8
Golden Harvest	GH2544XF § ↗	RXF	2.5	R	56.6	11.0	2	130.0	713	9
Xitavo	XO 2444E ↗	E3,ST	2.4	R	56.5	11.1	1	122.0	712	10
Asgrow	AG21XF2 § ↗	RXF	2.1	R	56.4	11.4	1	130.0	711	11
Cornelius	CB23XF63 ↗	RXF	2.3	R	56.1	11.0	1	127.3	707	12
NuTech	24N05E ↗	E3	2.4	R	56.0	11.0	1	130.0	706	13
FS HiSOY	HS 23F10 ↗	RXF	2.3	R	55.8	11.2	1	124.7	703	14
Hoegemeyer	2194 E ↗	E3	2.1	R	55.8	10.9	1	130.0	703	15
Zinesto	Z2101E ↗	E3	2.1	R	55.6	11.6	1	124.7	701	16
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	55.6	11.3	2	130.0	701	17
Kruger	K2294XF ↗	RXF	2.2	R	55.0	11.3	1	132.3	693	18
Kruger	K2115XF ↗	RXF	2.1	R	54.9	11.3	1	124.7	692	19
P3 Genetics	2424E ↗	E3	2.4	R	54.7	11.0	1	130.0	689	20
Xitavo	XO 2501E ↗	E3	2.5	R	54.4	11.0	1	122.0	685	21
Zinesto	Z2303E ↗	E3	2.3	R	54.4	11.6	1	124.7	685	22
Apex	AE2440 ↗	E3	2.4	R	54.3	11.2	1	129.7	684	23
NuTech	22N03E ↗	E3	2.2	R	54.0	11.5	1	124.7	680	24
Xitavo	XO 2282E ↗	E3	2.2	R	53.7	11.2	1	127.3	677	25
Zinesto	Z2202E ↗	E3	2.2	NA	53.3	11.1	1	129.7	672	26
Cornelius	CB25XF99 ↗	RXF	2.5	R	52.2	11.1	2	127.3	658	27
Zinesto	Z2404E ↗	E3	2.4	R	51.8	11.3	1	132.3	653	28
FS HiSOY	HS 24E30 ↗	E3	2.4	R	51.5	11.1	1	127.3	649	29
Genesis	G2550E ↗	E3	2.5	R	51.3	10.9	1	127.3	646	30
P3 Genetics	2421E ↗	E3	2.1	R	51.0	11.5	1	130.0	643	31
<b>CROPLAN</b>	<b>CP2520E CK</b>	<b>E3</b>	<b>2.5</b>	<b>R</b>	<b>57.2</b>	<b>11.0</b>	<b>1</b>	<b>130.0</b>	<b>721</b>	<b>7</b>
					Averages =	<b>54.6</b>	<b>11.2</b>	<b>1</b>	<b>128.2</b>	<b>688</b>
					LSD (0.10) =	2.4	0.2	ns		
					LSD (0.25) =	1.3	0.1	ns		
					C.V. =	4.2	Historic yield: 60.28 bu/a, 8 yr(s)			

Corey Rozenboom

corey.rozenboom@firstseedtests.com, (319) 830-8886

### Yield & Income Factors:

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

Report Date: 10/08/2023

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

<b>Full-Season Test</b>	Maturity Group <b>2.6 - 2.9</b> S2023IANC04b
<b>Top 30 of 34</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn, Rye Cover Crop / Tripleflex li, Glyphosate, Halex, Atrazine
<b>SOIL DESCRIPTION:</b>	Marquis loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	medium P, medium K, 5.9 pH, 3.0% OM, 16.0 CEC
<b>TILLAGE/CULTIVATION:</b>	Strip-Till
<b>PEST MANAGEMENT:</b>	Sonic, Glystar, Roundup Powermax 3, Noventa, Outlook, Section Three
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	May 16 144.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 7 138.1 /A

### TEST COMMENTS:

Black Hawk County experienced a very dry season which ended the growing season in a D3 extreme drought. Even with regular showers from June, July and August, they just weren't enough to keep up with the crop demands during critical growth stages. As a result, yield potential was reduced proportionately with available moisture in the soil profile. The dry conditions held off foliar diseases for the most part and plants appeared clean and healthy during the season. No lodging was observed at harvest.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Stine	28EG29 § ↗	E3	2.8	R	<b>59.6</b>	11.6	1	127.3	751	1
NuTech	27N03E ↗	E3	2.7	R	<b>59.2</b>	11.2	2	132.3	746	2
Asgrow	AG27XF3 § ↗	RXF	2.7	R	<b>57.9</b>	11.0	1	130.0	730	3
Kruger	K2604XF ↗	RXF	2.6	R	<b>57.6</b>	11.2	1	130.0	726	4
FS HISOY	HS 28E10 ↗	E3	2.8	R	<b>57.3</b>	11.4	1	124.7	722	5
Xitavo	XO 2613E ↗	E3	2.6	R	<b>57.2</b>	11.6	1	127.3	721	6
Xitavo	XO 2832E ↗	E3	2.8	R	56.6	11.5	1	127.3	713	8
Golden Harvest	GH2674E3 § ↗	E3	2.6	MR	56.5	11.6	2	127.3	712	9
Zinesto	Z2902E ↗	E3	2.9	NA	56.4	11.4	1	122.0	711	10
Mustang	29E224 ↗	E3	2.9	R	56.4	11.4	4	127.3	711	11
Asgrow	AG28XF3 § ↗	RXF	2.8	R	56.2	10.6	2	127.3	708	12
Xitavo	XO 2963E ↗	E3	2.9	R	55.9	11.6	1	130.0	704	13
Hoegemeyer	2724 E GC ↗	E3	2.7	R	55.7	10.7	1	127.3	702	14
NuTech	29N04E ↗	E3	2.9	R	55.6	10.8	1	127.3	701	15
FS HISOY	HS 28F30 ↗	RXF	2.8	R	55.6	11.2	1	127.3	701	16
FS HiSOY	HS 27E30 ↗	E3	2.7	R	55.6	11.3	1	130.0	701	17
NuTech	27N06E ↗	E3	2.7	R	55.5	10.7	1	122.0	699	18
Zinesto	Z2700E ↗	E3	2.7	R	55.4	11.2	1	127.3	698	19
Zinesto	Z2604E ↗	E3	2.6	R	55.4	11.2	1	124.7	698	20
P3 Genetics	2326E ↗	E3	2.6	R	55.4	11.6	1	127.3	698	21
Stine	27EG22 § ↗	E3	2.7	R	55.0	11.1	1	130.0	693	22
NuTech	29N02E ↗	E3	2.9	R	54.5	11.0	1	495.0	687	23
Titan Pro	TP 29E23 ↗	E3	2.9	R	53.9	11.2	1	122.0	679	24
Cornelius	CB27XF72 ↗	RXF	2.7	R	53.9	10.8	1	130.0	679	25
Genesis	G2780E ↗	E3	2.7	R	53.1	11.4	1	124.7	669	26
Golden Harvest	GH2814E3S § ↗	E3,ST	2.8	MR	52.8	11.5	1	130.0	665	27
Pioneer	P26T57E § ↗	E3	2.6	R	52.7	11.3	1	130.0	664	28
Pioneer	P28A65E § ↗	E3	2.8	R	52.7	10.9	1	124.7	664	29
Hoegemeyer	2834 E GC ↗	E3	2.8	R	52.5	10.9	1	127.3	662	30
Kruger	K2816XF ↗	RXF	2.8	R	52.2	11.0	1	127.3	658	31
<b>CROPLAN</b>	<b>CP2520E CK</b>	<b>E3</b>	<b>2.5</b>	<b>R</b>	<b>57.1</b>	<b>11.0</b>	<b>1</b>	<b>127.3</b>	<b>719</b>	<b>7</b>
					Averages =	<b>55.0</b>	<b>11.2</b>	<b>1</b>	<b>138.1</b>	<b>693</b>
					LSD (0.10) =	2.2	0.2	1		
					LSD (0.25) =	1.1	0.1	0		
					C.V. =	3.7				
					Historic yield: 60.28 bu/a, 8 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: 10/08/2023

† 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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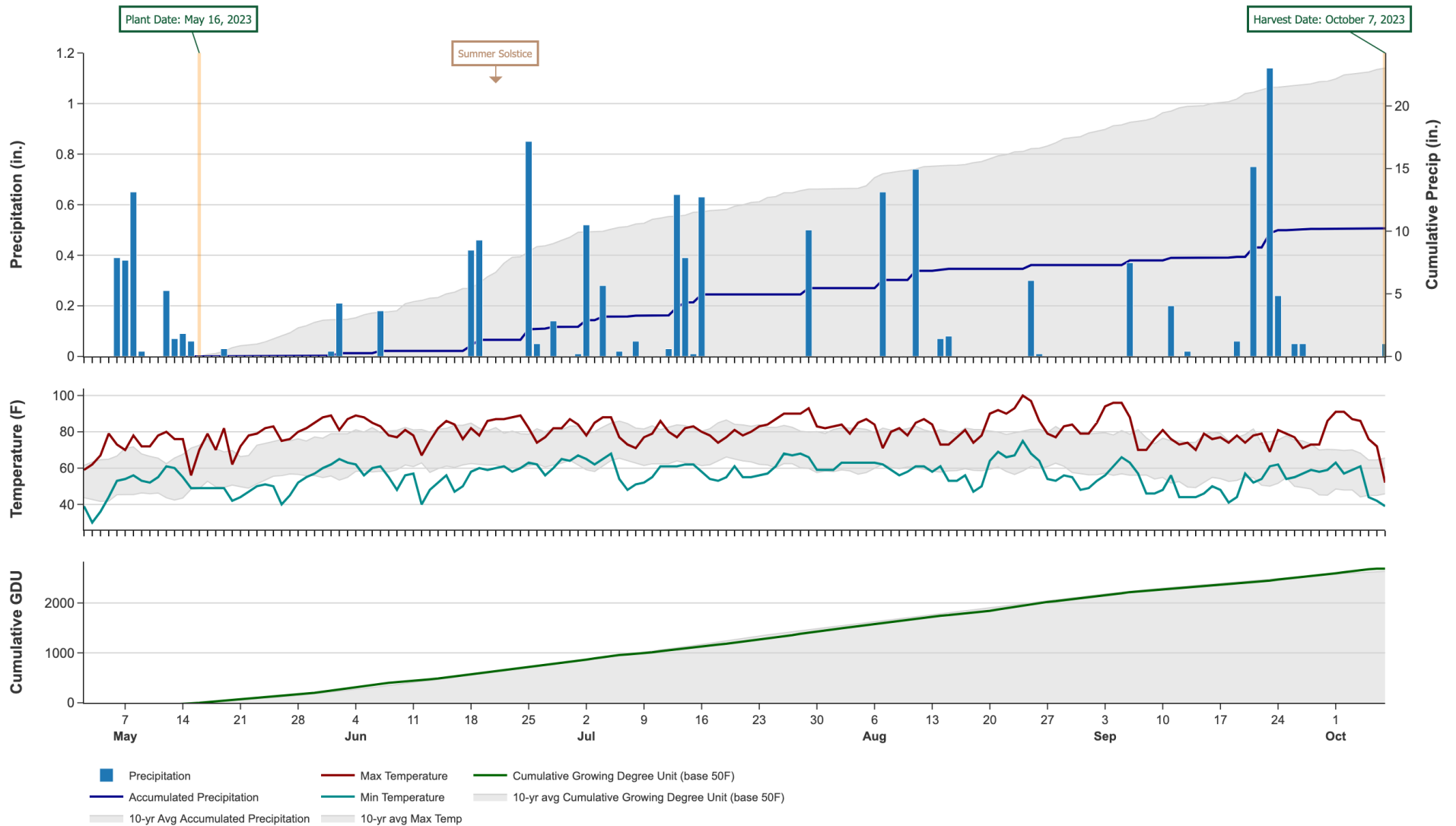
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# 2023 Soybeans - Iowa North Central [ IANC ]

## Weather Conditions Summary at WATERLOO, IA

Weather Data Retrieved: 10/08/2023

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   (Diff)	1.9   4.4 (-2.5)	2.3   6.6 (-4.3)	3.1   3.9 (-0.8)	1.9   4.2 (-2.3)	2.9   4.4 (-1.5)	0.1   1.0 (-1.0)	12.2   24.5 (-12.4)
GDU   Avg (Diff)	396   323 (+72)	596   615 (-19)	631   691 (-60)	640   620 (+19)	481   447 (+33)	116   61 (+54)	2860   2760 (+99)



\* 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 Central [ IANC ]

### Early-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE2440	E3	R	2.4	PU
Asgrow	AG21XF2 §	RXF	R	2.1	ACi,IL
Asgrow	AG25XF3 §	RXF	R	2.5	ACi,IL
Cornelius	CB23XF63	RXF	R	2.3	PG+
Cornelius	CB25XF99	RXF	R	2.5	PG+
Croplan	CP2520E CK	E3	R	2.5	W
FS HiSOY	HS 23E10	E3,ST	R	2.3	ACi,SA
FS HiSOY	HS 23F10	RXF	R	2.3	ACi,SA
FS HiSOY	HS 24E30	E3	R	2.4	ACi,SA
FS HiSOY	HS 25E30	E3	R	2.5	ACi,SA
Genesis	G2480E	E3	R	2.4	EcQ,NF,NH,SA
Genesis	G2550E	E3	R	2.5	EcQ,NF,NH,SA
Golden Harvest	GH2292E3 §	E3	MR	2.2	CMB-APX,SA
Golden Harvest	GH2544XF §	RXF	R	2.5	CMB-APX,SA
Hoegemeyer	2194 E	E3	R	2.1	Lum, LumT, IL
Hoegemeyer	2484 E	E3	R	2.4	Lum,Lu,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,Lud,IL
NuTech	25N04E	E3	R	2.5	Lum,Lu,IL
P3 Genetics	2322E	E3	R	2.2	PG+
P3 Genetics	2325E	E3	R	2.5	PG+
P3 Genetics	2421E	E3	R	2.1	PG+
P3 Genetics	2424E	E3	R	2.4	PG+
Stine	21EG32 §	E3	R	2.1	ACi
Stine	24FD32 §	RXF	R	2.4	ACi
Titan Pro	TP 25E22	E3	R	2.5	SA,A,R,TU
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
Xitavo	XO 2501E	E3	R	2.5	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	Z2404E	E3	R	2.4	DST5

## 2023 Soybeans - Iowa North Central [ IANC ]

### Full-Season Test Products (34 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	CB27XF72	RXF	R	2.7	PG+
Croplan	CP2520E CK	E3	R	2.5	W
FS HiSOY	HS 26E20	E3	R	2.6	ACi,SA
FS HiSOY	HS 27E30	E3	R	2.7	ACi,SA
FS HiSOY	HS 28E10	E3	R	2.8	ACi,SA
FS HiSOY	HS 28F30	RXF	R	2.8	ACi,SA
Genesis	G2780E	E3	R	2.7	EcQ,NF,NH,SA
Golden Harvest	GH2674E3 §	E3	MR	2.6	CMB-APX,SA
Golden Harvest	GH2814E3S §	E3,ST	MR	2.8	CMB-APX,SA
Hoegemeyer	2724 E GC	E3	R	2.7	Lum,Lu,IL
Hoegemeyer	2834 E GC	E3	R	2.8	Lum,Lu,IL
Kruger	K2604XF	RXF	R	2.6	ACi,IL
Kruger	K2816XF	RXF	R	2.8	ACi,IL
Mustang	29E224	E3	R	2.9	Treated
NuTech	27N03E	E3	R	2.7	Lum,Lu,IL
NuTech	27N06E	E3	R	2.7	Lum,Lu,IL
NuTech	29N02E	E3	R	2.9	Lum,Lu,IL
NuTech	29N04E	E3	R	2.9	Lum,Lu,IL
P3 Genetics	2326E	E3	R	2.6	PG+
Pioneer	P26T57E §	E3	R	2.6	Untreated
Pioneer	P28A65E §	E3	R	2.8	Untreated
Pioneer	P29A19E §	E3	MR	2.9	Untreated
Stine	27EG22 §	E3	R	2.7	ACi
Stine	28EG29 §	E3	R	2.8	ACi
Titan Pro	TP 29E23	E3	R	2.9	SA,A,R,TU
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	Z2604E	E3	R	2.6	DST5
Zinesto	Z2700E	E3	R	2.7	DST5
Zinesto	Z2902E	E3	NA	2.9	DST5

## Footnotes and Abbreviations Descriptions

### Brand Footnotes

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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

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S	susceptible
MR	moderate resistance
R	resistant
n/a	info unavailable

### Soybeans Technologies

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E3	Enlist E3®
RXF	XtendFlex®
ST	Sulfonylurea tolerant

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### Soybeans Seed Treatments\*

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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
W	Warden® CX

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\* Seed treatments may include unspecified plant health promoting components.