

Test by: NewVenture, LLC Ellendale, MN

## 2022 Soybeans Top 30 Harvest Report

Minnesota North Central [MNCC] STARBUCK, MN

Matt Moe, Pope County, MN 56381

<b>Early-Season Test</b>	Maturity Group <b>0.6 - 0.9</b> S2022MNCC04a
<b>Top 30 of 34</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Halex Gt, Class Act
<b>SOIL DESCRIPTION:</b>	Hokans-Buse Complex loam, well drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, very high K, 7.4 pH, 5.0% OM, 21.6 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Liberty, Class Act Next Generation, Fusilade Dx, Strikelock, Ams
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEDED - RATE - ROW:</b>	Jun 9 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 11 129.8 /A

### TEST COMMENTS:

*The later planting date was due to a very wet spring. Then, a growing season with very little rainfall coupled with a relatively early freeze led to lower yields and elevated variance in this plot. This area has had two years in a row of dry growing seasons. There were varieties that were still green when the frost hit and that made for a very long day of harvesting. The test was in a lower part of this field, and that helped keep the crop going.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Hefty	H05XF3 ↗	RXF	0.5	R	<b>58.0</b>	8.1	0	130.3	783	1
Hefty	H09XF3 ↗	RXF	0.9	R	<b>52.4</b>	7.2	0	130.3	707	2
Thunder	TX8307N ↗	RXF	0.7	R	50.8	8.2	0	129.3	686	3
Xitavo	XO 0602E ↗	E3	0.6	R	50.4	8.0	0	130.3	680	4
Latham	L 0959 E3 ↗	E3	0.9	R	50.2	8.1	0	130.3	678	5
Dairyland	DSR-0920E ↗	E3	0.9	R	48.6	8.3	0	130.3	656	6
Hefty	H07XF3 ↗	RXF	0.7	R	47.8	8.0	0	129.5	645	7
Golden Harvest	GH0983XF § ↗	RXF	0.9	R	47.5	8.1	1	129.3	641	8
Latham	L 0945 LLGT27 ↗	LLGT27	0.9	R	46.7	8.1	0	129.0	630	9
Zinesto	Z0702E ↗	E3	0.7	NA	46.3	8.2	0	130.3	625	11
Zinesto	Z0601E ↗	E3	0.6	R	46.3	8.1	0	130.0	625	12
Stine	09EA02 § ↗	E3	0.9	R	45.6	8.1	0	129.7	616	13
Xitavo	XO 0993E ↗	E3	0.9	R	44.6	8.2	0	130.0	602	14
Zinesto	Z0903E ↗	E3	0.9	R	44.2	8.1	0	129.7	597	15
Golden Harvest	GH0693E3 § ↗	E3	0.6	R	43.4	8.0	0	129.0	586	16
Stine	08EC32 § ↗	E3	0.8	R	43.1	8.1	0	128.7	582	17
Thunder	TE7309N ↗	E3	0.9	R	43.1	8.2	0	128.7	582	18
Dairyland	DSR-0757E ↗	E3	0.7	S	42.8	8.2	0	129.3	578	19
Dairyland	DSR-0847E ↗	E3	0.8	S	42.7	8.0	0	129.3	576	20
Latham	L 0785 E3 ↗	E3	0.7	R	42.3	8.2	0	129.7	571	21
Thunder	TX8309N ↗	RXF	0.9	R	42.0	8.1	0	130.3	567	22
Gold Country	0842XF ↗	RXF	0.8	R	41.9	8.1	0	130.0	566	23
Pioneer	P09T68E § ↗	E3	0.9	NA	41.9	8.1	0	129.7	566	24
Golden Harvest	GH0653XF § ↗	RXF	0.6	R	39.9	8.2	0	129.7	539	25
Xitavo	XO 0731E ↗	E3	0.7	R	39.4	8.3	0	131.0	532	26
Zinesto	Z0602E ↗	E3	0.6	NA	38.6	8.1	0	129.7	521	27
Latham	L 0694 XF ↗	RXF	0.6	R	37.8	8.1	0	130.3	510	28
Asgrow	AG09XF3 § ↗	RXF	0.9	R	36.9	8.2	0	128.7	498	29
Thunder	TE7207 ↗	E3	0.7	S	36.6	8.1	5	130.7	494	30
Dyna-Gro	S07EN61 ↗	E3	0.7	R	36.3	8.2	0	130.0	490	31
NK BRAND	NK13-Y4XF CK	RXF	1.3	R	46.3	8.1	0	130.3	625	10

Averages = **43.5** **8.1** **0** **129.8** **587**

LSD (0.10) = 7.7 ns ns

LSD (0.25) = 4.1 ns ns

Ed Dahle

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C.V. = 16.8

Historic yield: 46.42 bu/a, 7 yr(s)

**Yield & Income Factors:**

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$13.50

Report Date: 10/12/2022

† 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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Test by: NewVenture, LLC Ellendale, MN

## 2022 Soybeans Top 30 Harvest Report

Minnesota North Central [MNNC] STARBUCK, MN  
Matt Moe, Pope County, MN 56381

<b>Full-Season Test</b>	Maturity Group <b>1.0 - 1.5</b> S2022MNNC04b
<b>Top 30 of 36</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Halex Gt, Class Act
<b>SOIL DESCRIPTION:</b>	Hokans-Buse Complex loam, well drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, very high K, 7.4 pH, 5.0% OM, 21.6 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Liberty, Class Act Next Generation, Fusilade Dx, Strikelock, Ams
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEDED - RATE - ROW:</b>	Jun 9 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 11 130.4 /A

### TEST COMMENTS:

*The later planting date was due to a very wet spring. Then, a growing season with very little rainfall coupled with a relatively early freeze led to lower yields and elevated variance in this plot. This area has had two years in a row of dry growing seasons. There were varieties that were still green when the frost hit and that made for a very long day of harvesting. The test was in a lower part of this field, and that helped keep the crop going.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Latham	L 1452 LLGT27 ↗	LLGT27	1.4	R	<b>57.1</b>	8.2	0	130.3	771	1
Latham	L 1439 XF ↗	RXF	1.4	R	<b>56.4</b>	8.2	0	130.7	761	2
Dyna-Gro	S12EN72 ↗	E3	1.2	R	<b>55.4</b>	8.3	0	131.3	748	3
Asgrow	AG13XF3 § ↗	RXF	1.3	R	<b>54.0</b>	8.1	0	131.3	729	4
Hefty	H13XF3 ↗	RXF	1.3	R	53.8	8.1	0	130.3	726	5
Zinesto	Z1202E ↗	E3	1.2	NA	52.7	8.3	0	131.3	711	6
Hefty	H15XF2 ↗	RXF	1.5	NA	50.7	8.1	0	130.7	684	7
Thunder	TX8215N ↗	RXF	1.5	R	50.0	8.1	1	130.0	675	8
Dairyland	DSR-1290E ↗	E3,ST	1.2	R	49.7	8.2	1	131.0	671	9
Dairyland	DSR-1505E ↗	E3	1.5	R	48.6	8.2	0	129.7	656	11
Xitavo	XO 1212E ↗	E3	1.2	R	48.3	8.1	0	129.0	652	12
Thunder	TX8211N ↗	RXF	1.1	R	48.0	8.1	0	130.3	648	13
Thunder	TX8313N ↗	RXF	1.3	R	46.7	8.1	0	131.0	630	14
Latham	L 1392 E3 ↗	E3	1.3	R	46.0	8.0	0	131.0	621	15
Hefty	H10XF1 ↗	RXF	1.0	NA	45.3	8.3	0	130.3	612	16
Gold Country	1041XF ↗	RXF	1.0	R	45.1	8.1	0	129.3	609	17
Dairyland	DSR-1450E ↗	E3,ST	1.4	R	44.1	8.2	0	131.7	595	18
Stine	14EE02 § ↗	E3	1.4	R	43.9	8.0	0	131.0	593	19
Dairyland	DSR-1121E ↗	E3	1.1	R	42.9	8.0	0	129.3	579	20
Stine	15EE32 § ↗	E3	1.5	R	42.7	8.1	0	130.7	576	21
Hefty	H14XF3 ↗	RXF	1.4	R	42.5	8.3	0	130.0	574	22
Zinesto	Z1101E ↗	E3	1.1	R	41.7	8.0	1	130.3	563	23
Xitavo	XO 1372E ↗	E3,ST	1.3	R	40.3	8.2	0	131.3	544	24
Pioneer	P13T47E § ↗	E3	1.3	NA	40.0	8.2	0	131.0	540	25
Xitavo	XO 1041E ↗	E3	1.0	R	40.0	8.3	0	131.0	540	26
Pioneer	P10T57E § ↗	E3	1.0	NA	39.1	8.1	1	129.7	528	27
Zinesto	Z1502E ↗	E3	1.5	NA	36.8	8.2	0	128.5	497	28
Pioneer	P12T94E § ↗	E3	1.2	NA	36.1	8.1	0	130.3	487	29
Asgrow	AG11XF2 § ↗	RXF	1.1	R	35.0	8.1	0	130.7	472	30
Asgrow	AG15XF2 § ↗	RXF	1.5	R	34.9	8.0	0	130.0	471	31
NK BRAND	NK13-Y4XF CK	RXF	1.3	R	49.3	8.1	0	128.7	666	10
					Averages =	<b>44.3</b>	<b>8.1</b>	<b>0</b>	<b>130.4</b>	<b>594</b>
					LSD (0.10) =	9.6	ns	ns		
					LSD (0.25) =	5.1	ns	ns		
Ed Dahle					C.V. =	20.6				
ed.dahle@firstseedtests.com, (507) 456-6624					Historic yield: 46.42 bu/a, 7 yr(s)					

**Yield & Income Factors:** Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$13.50

Report Date: 10/12/2022

† 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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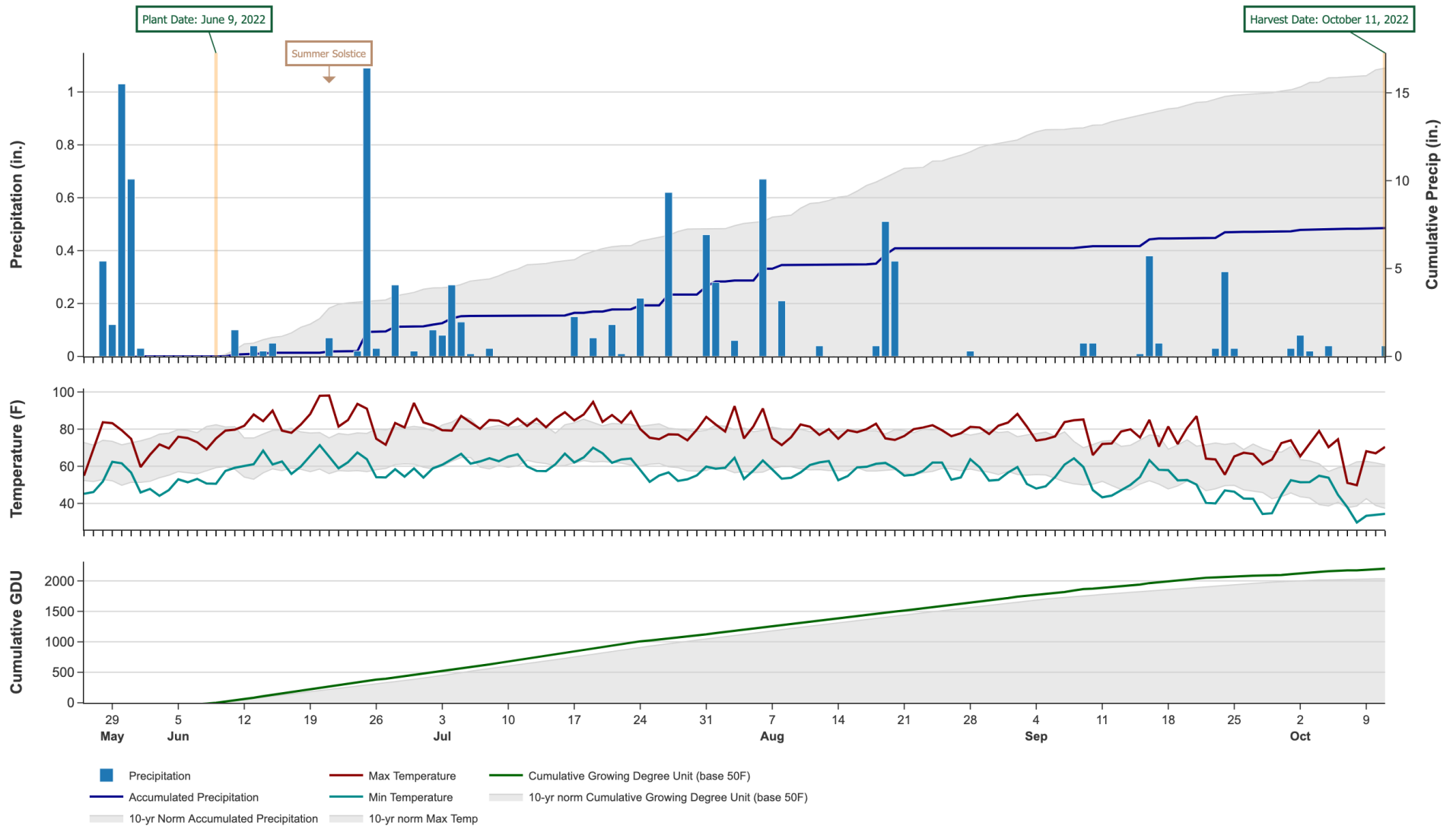
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# 2022 Soybeans - Minnesota North Central [ MNNC ]

## Weather Conditions Summary at STARBUCK, MN

Weather Data Retrieved: 10/12/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	2.2   0.7 (+1.5)	1.7   4.6 (-2.8)	2.3   3.6 (-1.3)	2.2   4.9 (-2.7)	0.9   3.0 (-2.1)	0.2   1.3 (-1.1)	9.5   18.0 (-8.5)
GDU   Normal (Diff)	89   73 (+15)	552   537 (+14)	668   661 (+6)	575   572 (+2)	399   368 (+30)	103   47 (+55)	2386   2260 (+125)



\* 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 - Minnesota North Central [ MNNC ]

### Early-Season Test Products (34 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG09XF3 §	RXF	R	0.9	ACi,IL
Dairyland	DSR-0757E	E3	S	0.7	Lum,Lu,IL
Dairyland	DSR-0847E	E3	S	0.8	Lum,Lu,IL
Dairyland	DSR-0920E	E3	R	0.9	Lum,Lu,IL
Dyna-Gro	S07EN61	E3	R	0.7	EQV,Sa,Va
Dyna-Gro	S09EN53	E3	R	0.9	EQV,Sa,Va
Gold Country	0842XF	RXF	R	0.8	ACi,IL
Golden Harvest	GH0653XF §	RXF	R	0.6	CMBV,SA
Golden Harvest	GH0693E3 §	E3	R	0.6	CMBV,SA
Golden Harvest	GH0933E3 §	E3	R	0.9	CMBV,SA
Golden Harvest	GH0983XF §	RXF	R	0.9	CMBV,SA
Hefty	H05XF3	RXF	R	0.5	DST4
Hefty	H07XF3	RXF	R	0.7	DST4
Hefty	H08XF2	RXF	NA	0.8	DST4
Hefty	H09XF3	RXF	R	0.9	DST4
Latham	L 0694 XF	RXF	R	0.6	SS+,SA
Latham	L 0785 E3	E3	R	0.7	SS+,SA
Latham	L 0945 LLGT27	LLGT27	R	0.9	SS+,SA
Latham	L 0959 E3	E3	R	0.9	SS+,SA
NK Brand	NK13-Y4XF CK	RXF	R	1.3	CMBV,SA
Pioneer	P09T68E §	E3	NA	0.9	Lum,Lu,IL
Stine	08EC32 §	E3	R	0.8	SFI
Stine	09EA02 §	E3	R	0.9	SFI
Thunder	TE7207	E3	S	0.7	TFI
Thunder	TE7309N	E3	R	0.9	TFI
Thunder	TX8307N	RXF	R	0.7	TFI
Thunder	TX8309N	RXF	R	0.9	TFI
Xitavo	XO 0602E	E3	R	0.6	PV,IL,OB,Rey
Xitavo	XO 0731E	E3	R	0.7	PV,IL,OB,Rey
Xitavo	XO 0993E	E3	R	0.9	PV,IL,OB,Rey
Zinesto	Z0601E	E3	R	0.6	DST4
Zinesto	Z0602E	E3	NA	0.6	DST4
Zinesto	Z0702E	E3	NA	0.7	DST4
Zinesto	Z0903E	E3	R	0.9	DST4

## 2022 Soybeans - Minnesota North Central [ MNNC ]

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

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG11XF2 §	RXF	R	1.1	ACi,IL
Asgrow	AG13XF3 §	RXF	R	1.3	ACi
Asgrow	AG15XF2 §	RXF	R	1.5	ACi,IL
Dairyland	DSR-1121E	E3	R	1.1	Lum,Lu,IL
Dairyland	DSR-1290E	E3,ST	R	1.2	Lum,Lu,IL
Dairyland	DSR-1450E	E3,ST	R	1.4	Lum,Lu,IL
Dairyland	DSR-1505E	E3	R	1.5	Lum,Lu,IL
Dyna-Gro	S12EN72	E3	R	1.2	EQV,Sa,Va
Dyna-Gro	S14EN22	E3	R	1.4	EQV,Sa,Va
Gold Country	1041XF	RXF	R	1.0	ACi,IL
Hefty	H10XF1	RXF	NA	1.0	DST4
Hefty	H13XF3	RXF	R	1.3	DST4
Hefty	H14XF3	RXF	R	1.4	DST4
Hefty	H15XF2	RXF	NA	1.5	DST4
Latham	L 1392 E3	E3	R	1.3	SS+,SA
Latham	L 1439 XF	RXF	R	1.4	SS+,SA
Latham	L 1452 LLGT27	LLGT27	R	1.4	SS+,SA
Latham	L 1558 E3	E3	R	1.5	SS+,SA
NK Brand	NK13-Y4XF CK	RXF	R	1.3	CMBV,SA
Pioneer	P10T57E §	E3	NA	1.0	Lum,Lu,IL
Pioneer	P12T94E §	E3	NA	1.2	Lum,Lu,IL
Pioneer	P13T47E §	E3	NA	1.3	Lum,Lu,IL
Stine	14EE02 §	E3	R	1.4	SFI
Stine	15EE32 §	E3	R	1.5	SFI
Thunder	TX8211N	RXF	R	1.1	TFI
Thunder	TX8215N	RXF	R	1.5	TFI
Thunder	TX8312N	RXF	R	1.2	TFI
Thunder	TX8313N	RXF	R	1.3	TFI
Xitavo	XO 1041E	E3	R	1.0	PV,IL,OB,Rey
Xitavo	XO 1133E	E3	R	1.1	PV,IL,OB,Rey
Xitavo	XO 1212E	E3	R	1.2	PV,IL,OB,Rey
Xitavo	XO 1372E	E3,ST	R	1.3	PV,IL,OB,Rey
Zinesto	Z1003E	E3	R	1.0	DST4
Zinesto	Z1101E	E3	R	1.1	DST4
Zinesto	Z1202E	E3	NA	1.2	DST4
Zinesto	Z1502E	E3	NA	1.5	DST4

## 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
LLGT27	LibertyLink® GT27®
RXF	Roundup Ready 2 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
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Salto®
DST4	Dominance 4 ST
EQV,Sa,Va	Equity VIP, Salto®, Vayantis
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
SFI	Stine XP F&I
SS+,SA	SoyShield Plus, Salto®
TFI	ThunderStruck F&I (Thunder Seed Inc.)

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