

Test by: MNS Seed Testing, LLC New Richland, MN

**2021 Soybeans Top 30 Harvest Report**

South Dakota Northeast [SDNE] WATERTOWN, SD  
Myron Keltgen, Codington County, SD 57201

<b>Early-Season Test</b>	Maturity Group 1.0 - 1.3 S2021SDNE09a
<b>Top 30 of 40</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Force, Authority First, Atrazine, Bellum
<b>SOIL DESCRIPTION:</b>	Poinsettia-Buse-Wauba silty clay loam, well drained, non-irrigated
<b>SOIL CONDITION:</b>	high P, very high K, 7.3 pH, 4.1% OM, 21.0 CEC
<b>TILLAGE/CULTIVATION:</b>	No-Till
<b>PEST MANAGEMENT:</b>	Roundup, Flexstar, Volunteer, Authority First, Metribuzen,
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEDED - RATE - ROW:</b>	May 11 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 19 111.7 /A

**TEST COMMENTS:**

We lost a few plots because a tree along the fence line fell on the plot. There was a little weed pressure in June so a couple of the plots were damaged along the edges. At harvest, we had good weed control. This area had more timely rains than the other SDNE plots. The average yield on the full-season test was 5 bushel/acre better than the early-season test. The full-season test had a more consistent stand with less damage. The early test was rejected due to lost plots and higher variety yield variation.

Company/Brand	Product/Brand	Yield (t)	Mo	CEC	Yield (bu/a)	Moisture (%)	Logging (%)	Stand (p/1000)	Gross Income \$/Acre	Yield (bu/a)
Proseed	6L21-226+	83	1.2	R	72.1	11.3	10	113.3	665	1
Dayland	208-1248+	83	1.3	R	82.8	11.2	4	108.0	763	2
Loop	L1048+	83	1.2	R	82.8	11.8	2	113.3	751	3
Winn	80-1278+	83	1.3	R	82.4	11.2	4	113.3	748	4
Lehigh	L1214-83+	83	1.2	R	82.2	11.1	7	118.0	748	5
Hyly	811872+	88P	1.1	NA	82.2	11.2	8	114.2	730	6
Trinity	782116+	83	1.1	R	82.2	11.8	2	113.3	720	7
Proseed	714443+	88P	1.1	R	82.2	11.5	2	113.3	718	8
Trinity	21218+	83	1.1	R	82.2	11.3	2	113.3	714	9
Dayland	111824-83+	83.8P	1.2	R	82.2	11.1	2	113.3	708	10
Trinity	21208+	83	1.2	NA	82.1	11.2	3	111.2	708	11
Agway	802071+	83	1.2	R	82.1	11.4	3	113.0	702	12
Dayland	812072+	88P	1.2	R	82.1	10.9	2	113.3	700	13
Proseed	6L21-226+	83	1.1	R	82.1	10.8	8	114.7	700	14
Trinity	782116+	83	1.1	R	82.1	11.1	4	113.0	697	15
Proseed	812083+	83	1.1	R	81.8	11.2	10	112.3	694	16
Proseed	812083+	83	1.1	R	82.2	11.2	2	111.2	692	17
Winn	80-1248+	83	1.2	R	82.2	11.5	12	111.7	678	18
Lehigh	L1283-87+	83	1.3	R	82.0	11.3	17	114.0	672	19
Dayland	208-1248+	83	1.2	R	82.4	11.3	11	108.0	665	20
Hyly	811872+	88P	1.0	NA	82.3	11.8	10	112.0	662	21
Ag	80-1248+	83	1.2	R	82.0	11.1	3	113.0	660	22
Dayland	CE 1214-83+	83.8P	1.1	NA	81.7	11.0	8	108.2	658	24
Winn	812072+	88P	1.0	NA	82.8	11.4	3	108.0	647	25
Dayland	81208+	83	1.2	R	82.8	11.3	5	116.7	643	26
Winn	81208+	83	1.0	R	82.8	10.9	8	108.7	642	27
Dayland	81208-83+	88P	1.0	R	82.4	11.2	7	113.0	641	28
Hyly	812072+	88P	1.2	NA	82.8	11.4	8	112.3	638	29
Dayland	CE 1214-83+	83.8P	1.3	R	82.3	11.8	1	108.7	628	30
Trinity	882116+	88P	1.0	R	82.3	10.7	2	113.3	628	31



	Averages =	<b>55.6</b>	<b>11.2</b>	<b>6</b>	<b>111.7</b>	<b>671</b>
Mark Tollefson	LSD (0.10) =	ns	ns	ns		
mark.tollefson@firstseedtests.com, (507) 456-2357	LSD (0.25) =	ns	ns	ns		
	C.V. =	13.0			Historic yield: 47.8 bu/a, 7 yr(s)	
<b>Yield &amp; Income Factors:</b>	Base Moisture = 13.0%	Shrink = 1.0	Drying = \$0.035	Prices: GMO = \$12.00		

Report Date: 10/20/2021

Additional reports available at [www.firstseedtests.com](http://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. ↗ New! Links to full product yield results at [www.firstseedtests.com](http://www.firstseedtests.com)

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## 2021 Soybeans Top 30 Harvest Report

South Dakota Northeast [SDNE] WATERTOWN, SD  
Myron Keltgen, Codington County, SD 57201

<b>Full-Season Test</b>	Maturity Group 1.4 - 1.7 S2021SDNE09b
<b>Top 30 of 54</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Force, Authority First, Atrazine, Bellum
<b>SOIL DESCRIPTION:</b>	Poinsettia-Buse-Wauba silty clay loam, well drained, non-irrigated
<b>SOIL CONDITION:</b>	high P, very high K, 7.3 pH, 4.1% OM, 21.0 CEC
<b>TILLAGE/CULTIVATION:</b>	No-Till
<b>PEST MANAGEMENT:</b>	Roundup, Flexstar, Volunteer, Authority First, Metribuzen,
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	May 11 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 19 112.2 /A

### TEST COMMENTS:

We lost a few plots because a tree along the fence line fell on the plot. There was a little weed pressure in June so a couple of the plots were damaged along the edges. At harvest, we had good weed control. This area had more timely rains than the other SDNE plots. The average yield on the full-season test was 5 bushel/acre better than the early-season test. The full-season test had a more consistent stand with less damage. The early test was rejected due to lost plots and higher variety yield variation.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Apex	AE1720 ↗	E3	1.7	R	<b>69.6</b>	11.5	1	109.7	835	1
Xitavo	XO 1761E ↗	E3	1.7	R	<b>67.2</b>	11.0	3	115.7	806	2
Apex	AE1520 ↗	E3	1.5	R	<b>65.9</b>	10.9	5	117.7	791	3
Innotech	IS1575E3 ↗	E3	1.5	R	<b>65.7</b>	11.1	6	115.0	788	4
Genesis	G1760E ↗	E3	1.7	R	65.2	11.4	4	116.7	782	5
Dyna-Gro	S16XF51 ↗	RXF	1.6	R	64.6	11.3	3	106.7	775	6
Latham	L 1784 XF ↗	RXF	1.7	R	64.2	11.2	6	117.7	770	7
Xitavo	XO 1632E ↗	E3	1.6	R	63.6	11.4	7	114.3	763	8
Genesis	G1560E ↗	E3	1.5	R	63.5	11.4	2	115.7	762	9
NK Brand	NK17-M2XF ↗	RXF	1.7	R	63.2	11.2	6	116.7	758	10
Zinesto	Z1601E ↗	E3	1.6	R	62.6	10.8	6	112.3	751	11
Innotech	IS1761E3 ↗	E3	1.7	MR	62.1	11.2	4	110.7	745	12
Xitavo	XO 1451E ↗	E3	1.4	R	62.0	11.3	6	111.7	744	13
Apex	AE1710 ↗	E3	1.7	R	61.5	10.6	3	112.3	738	14
Pioneer	P16T58E GC ↗	E3	1.6	R	61.4	11.3	7	114.3	737	15
Stine	17EE32 § ↗	E3	1.7	R	60.7	11.2	12	116.3	728	16
Golden Harvest	GH1442XF § ↗	RXF	1.4	MR	60.3	11.2	3	115.3	724	17
Dairyland	DSR-1707E ↗	E3	1.7	R	60.1	11.1	10	111.0	721	18
Dyna-Gro	S15XF82 ↗	RXF	1.5	MR	60.0	11.3	2	115.0	720	19
Loyal	L1440E ↗	E3	1.4	R	58.9	11.1	3	110.3	707	20
Zinesto	Z1502E ↗	E3	1.5	NA	58.8	11.3	7	110.3	706	21
Proseed	EL11-53N ↗	E3	1.5	R	58.7	11.2	6	117.7	704	22
Thunder	SB8015N ↗	RRX	1.5	R	58.5	11.1	5	112.0	702	23
Zinesto	Z1702E ↗	E3	1.7	NA	58.3	11.4	7	110.0	700	24
Thunder	TX8215N ↗	RXF	1.5	R	58.1	10.8	10	113.0	697	25
Thunder	TX8117N ↗	RXF	1.7	R	58.0	10.9	5	116.0	696	26
Hefty	H14XF1 ↗	RXF	1.4	NA	57.8	11.2	5	113.5	694	27
Latham	L 1648 LLGT27 ↗	LLGT27	1.6	R	57.4	10.7	4	107.0	689	28
Golden Harvest	GH1472E3 ↗	E3	1.4	R	57.1	11.1	3	112.3	685	29
Dairyland	DSR-1450E ↗	E3	1.4	R	56.6	11.0	3	107.7	679	30
REA	R1350XF CK	RXF	1.3	NA	51.3	11.0	5	108.7	616	50
					Averages =	<b>57.6</b>	<b>11.1</b>	<b>5</b>	<b>112.2</b>	<b>689</b>
					LSD (0.10) =	8.1	ns	ns		
					LSD (0.25) =	4.3	ns	ns		
					C.V. =	13.4				
					Historic yield: 47.8 bu/a, 7 yr(s)					



Mark Tollefson

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### Yield & Income Factors:

Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.035 Prices: GMO = \$12.00

Report Date: 10/20/2021

† 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. ↗ New! Links to full product yield results at www.firstseedtests.com

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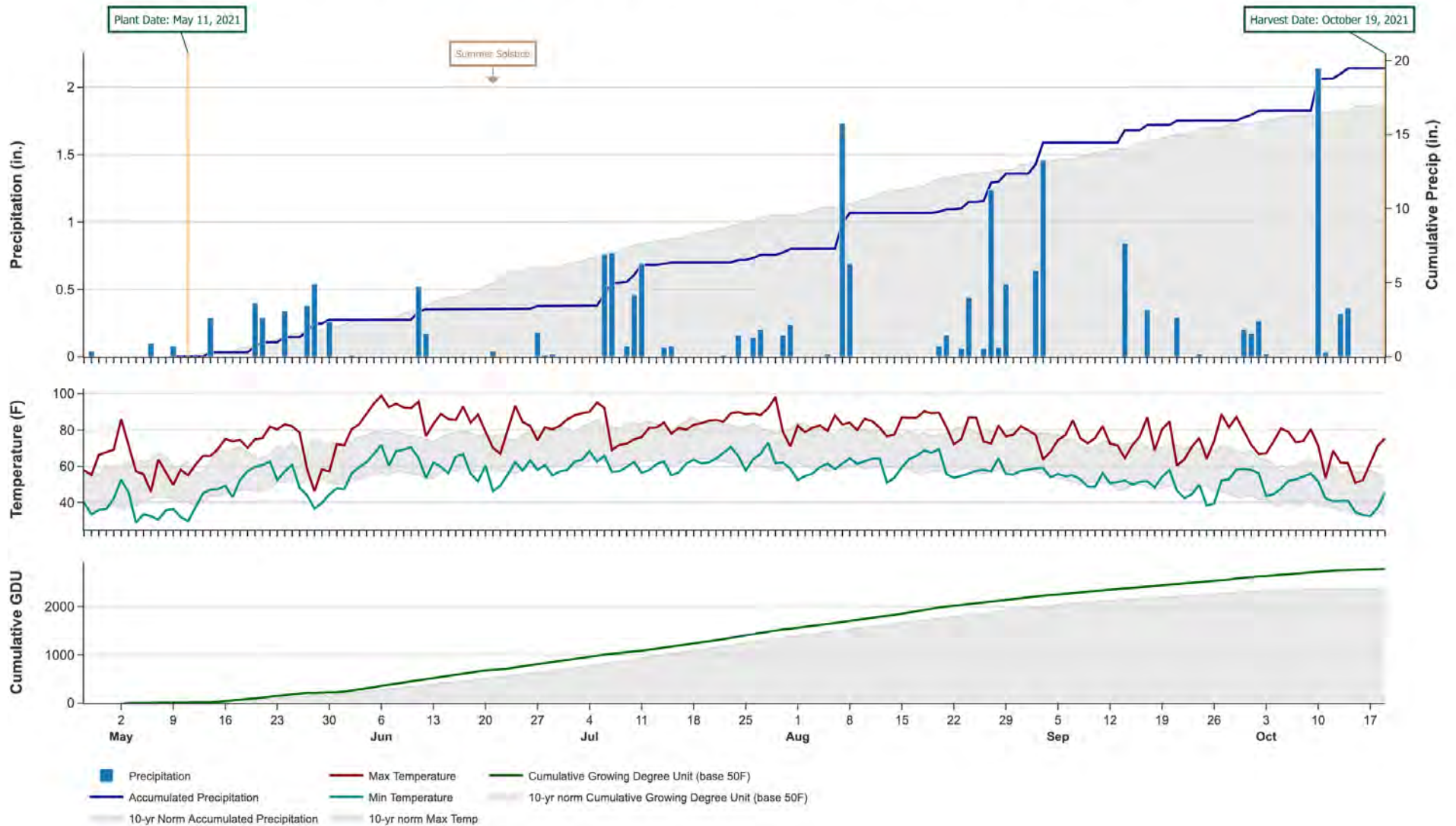
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# 2021 Soybeans - South Dakota Northeast [ SDNE ]

## Weather Conditions Summary at WATERTOWN, SD

Weather Data Retrieved: 10/20/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	0.0   0.4 (-0.4)	2.7   3.1 (-0.4)	0.9   4.0 (-3.0)	3.8   3.5 (+0.3)	5.1   3.4 (+1.7)	3.8   2.7 (+1.1)	3.3   1.4 (+1.9)	19.7   18.5 (+1.2)
GDU   Normal (Diff)	17   0 (+17)	265   241 (+23)	632   509 (+122)	684   680 (+3)	636   586 (+49)	423   353 (+69)	179   47 (+131)	2836   2418 (+417)



\* 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.

## 2021 Soybeans - South Dakota Northeast [ SDNE ]

### Early-Season Test Products (40 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1220	E3	R	1.2	CMBV,SA
Asgrow	AG10XF1 §	RXF	R	1.0	ACi,IL
Asgrow	AG12XF1 §	RXF	S	1.2	ACi,IL
Credenz	CZ 1171GTLL	LLGT27	MR	1.1	PV,IL,OB
Credenz	CZ 1331GTLL	LLGT27	R	1.3	PV,IL,OB
Dahlman	1111E3N GC	E3,ST	R	1.1	IS
Dahlman	6010XN GC	RRX	R	1.0	IS
Dairyland	DSR-1290E	E3	R	1.2	Lum,IL
Dairyland	DSR-1318E	E3	R	1.3	Lum,IL
Dyna-Gro	S12XF92	RXF	R	1.2	EQV,SA
Genesis	G1260E	E3	R	1.2	CMBV,SA
Genesis	G1340E	E3	R	1.3	CMBV,SA
Golden Harvest	GH1032XF §	RXF	R	1.0	CMBV,SA
Hefty	H10XF1	RXF	NA	1.0	DST4,SA
Hefty	H11XF2	RXF	NA	1.1	DST4,SA
Hefty	H12XF2	RXF	NA	1.2	DST4,SA
Hefty	H13XF1	RXF	NA	1.3	DST4,SA
Innotech	IS1022E3	E3	R	1.0	Fortify
Innotech	IS1283E3	E3	R	1.2	Fortify
Latham	L 1219 E3	E3	R	1.2	SS+,SA
Latham	L 1383 XF	RXF	R	1.3	SS+,SA
Loyal	L1240E	E3	R	1.2	CMBV,SA
NK Brand	S10-E3	E3	R	1.0	CMBV,SA
Pioneer	P09A53X §	RRX	NA	0.9	Lum,Lu
Pioneer	P11A44X §	RRX	R	1.1	Lum,Lu,IL
Proseed	EL21-23N	E3	R	1.2	CMBV
Proseed	EL91-33N	E3	R	1.3	CMBV
REA	R1042XF	RXF	NA	1.0	ACi,IL
REA	R1350XF CK	RXF	NA	1.3	ACi,IL
Stine	12EE63 §	E3	R	1.2	SFI
Thunder	SB8010N	RRX	R	1.0	AM
Thunder	TE7011N	E3	R	1.1	AM
Thunder	TX8211N	RXF	R	1.1	AM
Xitavo	XO 1041E	E3	R	1.0	PV,IL,OB
Xitavo	XO 1212E	E3	R	1.2	PV,IL,OB
Xitavo	XO 1372E	E3	R	1.3	PV,IL,OB
Zinesto	Z1001E	E3	R	1.0	DST4,SA
Zinesto	Z1101E	E3	R	1.1	DST4,SA
Zinesto	Z1202E	E3	NA	1.2	DST4,SA
Zinesto	Z1302E	E3	NA	1.3	DST4,SA



## 2021 Soybeans - South Dakota Northeast [ SDNE ]

### Full-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1420	E3	R	1.4	CMBV,SA
Apex	AE1520	E3	R	1.5	CMBV,SA
Apex	AE1710	E3	R	1.7	CMBV,SA
Apex	AE1720	E3	R	1.7	CMBV,SA
Asgrow	AG15XF2 §	RXF	R	1.5	ACi,IL
Credenz	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
Dahlman	1117E3N GC	E3	R	1.7	IS
Dahlman	6015XN GC	RRX	R	1.5	IS
Dairyland	DSR-1450E	E3	R	1.4	Lum,IL
Dairyland	DSR-1673E	E3	R	1.6	Lum,IL
Dairyland	DSR-1707E	E3	R	1.7	Lum,IL
Dyna-Gro	S15XF82	RXF	MR	1.5	EQV,SA
Dyna-Gro	S16XF51	RXF	R	1.6	EQV,SA
Genesis	G1460E	E3	R	1.4	CMBV,SA
Genesis	G1560E	E3	R	1.5	CMBV,SA
Genesis	G1760E	E3	R	1.7	CMBV,SA
Golden Harvest	GH1442XF §	RXF	MR	1.4	CMBV,SA
Golden Harvest	GH1472E3	E3	R	1.4	CMBV,SA
Golden Harvest	GH1762XF	RXF	MR	1.7	CMBV,SA
Hefty	H14XF1	RXF	NA	1.4	DST4,SA
Hefty	H15XF2	RXF	NA	1.5	DST5
Hefty	H16XF2	RXF	NA	1.6	DST5
Hefty	H17XF1	RXF	NA	1.7	DST4,SA
Innotech	IS1575E3	E3	R	1.5	Fortify
Innotech	IS1761E3	E3	MR	1.7	Fortify
Latham	L 1482 R2X	RRX	R	1.4	SS+,SA
Latham	L 1558 E3	E3	R	1.5	SS+,SA
Latham	L 1648 LLGT27	LLGT27	R	1.6	SS+
Latham	L 1758 E3	E3	R	1.7	SS+,SA
Latham	L 1769 R2X	RRX	R	1.7	SS+,SA
Latham	L 1784 XF	RXF	R	1.7	SS+,SA
Loyal	L1440E	E3	R	1.4	CMBV,SA
Loyal	L1540E	E3	R	1.5	CMBV,SA
Loyal	L1740E	E3	R	1.7	CMBV,SA
NK Brand	NK14-C7XF	RXF	R	1.4	CMBV,SA
NK Brand	NK14-W6E3 §	E3	MR	1.4	CMBV,SA
NK Brand	NK17-M2XF	RXF	R	1.7	CMBV,SA
Pioneer	P15A63X §	RRX	NA	1.5	Untreated
Pioneer	P16T58E GC	E3	R	1.6	Lum,Lu
Proseed	EL11-53N	E3	R	1.5	CMBV
REA	R1350XF CK	RXF	NA	1.3	ACi,IL
REA	R1532XF	RXF	NA	1.5	ACi,IL

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Stine	14EE01 §	E3	MR	1.4	SFI
Stine	17EE32 §	E3	R	1.7	SFI
Thunder	SB8015N	RRX	R	1.5	AM
Thunder	TX8117N	RXF	R	1.7	AM
Thunder	TX8215N	RXF	R	1.5	AM
Xitavo	XO 1451E	E3	R	1.4	PV,IL,OB
Xitavo	XO 1632E	E3	R	1.6	PV,IL,OB
Xitavo	XO 1761E	E3	R	1.7	PV,IL,OB
Zinesto	Z1411E	E3	R	1.4	DST4,SA
Zinesto	Z1502E	E3	NA	1.5	DST4,SA
Zinesto	Z1601E	E3	R	1.6	DST4,SA
Zinesto	Z1702E	E3	NA	1.7	DST4,SA

## 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®
RRX	Roundup Ready 2 Xtend®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

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### Soybeans Seed Treatments\*

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NA	Not Available
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
AM	ApronMaxx
CMBV	CruiserMaxx® Beans, Vibrance®
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
DST5	Dominance 5 ST
EQV,SA	Equity VIP, Saltro®
Fortify	Insecticide-Fungicide (Rob-See-Co)
IS	Intego® Suite
Lum,IL	LumiGEN™ plus ILeVO
Lum,Lu	LumiGEN™, Lumisena™
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SFI	Stine XP F&I
SS+	SoyShield Plus
SS+,SA	SoyShield Plus, Saltro®
Untreated	No seed treatment

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