

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

2021 Soybeans Top 30 Harvest Report

South Dakota Northeast [SDNE] WEBSTER, SD
Fred Zenk, Day County, SD 57274

Early-Season Test	Maturity Group 1.0 - 1.3 S2021SDNE11a
Top 30 of 40	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Force, Atrazine, Laudis, Class Act, Round-Up, 2-4d
SOIL DESCRIPTION:	Nutley-Sinia silty clay, well drained, non-irrigated
SOIL CONDITION:	low P, high K, 6.8 pH, 5.0% OM, 20.5 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Round-Up, Flexstar, Dual
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 13 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 29 109.7 /A

TEST COMMENTS:

There was a lack of rain early with as much as 5 inches below the 10-year average by the end of July. August 21 we had some hail, and it started to rain and August ended up with above average rainfall. The beans responded to the late rains, and we had 50 bushel beans at harvest. The field was weed-free and grain moistures were elevated from recent fall rains.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Genesis	G1340E ↗	E3	1.3	R	55.9	16.1	1	114.7	665	1
Dahlman	1111E3N GC ↗	E3,ST	1.1	R	54.9	16.1	1	111.0	653	2
Zinesto	Z1101E ↗	E3	1.1	R	54.8	16.2	1	111.0	651	3
Xitavo	XO 1212E ↗	E3	1.2	R	53.8	16.7	2	105.3	639	5
Proseed	EL91-33N ↗	E3	1.3	R	53.1	16.5	1	109.0	631	6
Proseed	EL21-23N ↗	E3	1.2	R	52.9	16.2	1	112.0	629	7
Zinesto	Z1001E ↗	E3	1.0	R	51.5	16.2	1	115.0	612	8
Hefty	H11XF2 ↗	RXF	1.1	NA	51.4	16.6	1	107.3	610	9
Thunder	TE7011N ↗	E3	1.1	R	51.0	16.6	1	109.7	606	10
Pioneer	P11A44X § ↗	RRX	1.1	R	50.8	16.3	1	106.5	604	11
Latham	L 1219 E3 ↗	E3	1.2	R	50.8	16.7	2	110.0	603	12
Asgrow	AG12XF1 § ↗	RXF	1.2	S	50.7	16.3	1	112.0	603	13
Genesis	G1260E ↗	E3	1.2	R	50.5	16.7	1	107.7	599	14
NK Brand	S10-E3 ↗	E3	1.0	R	50.3	16.4	2	111.0	598	15
Innotech	IS1283E3 ↗	E3	1.2	R	50.1	16.5	1	107.3	595	16
Dyna-Gro	S12XF92 ↗	RXF	1.2	R	50.0	16.3	1	112.0	594	17
Loyal	L1240E ↗	E3	1.2	R	50.0	16.6	1	113.7	594	18
Xitavo	XO 1372E ↗	E3	1.3	R	49.6	15.8	1	118.0	590	19
Latham	L 1383 XF ↗	RXF	1.3	R	49.2	16.3	2	103.7	585	20
Zinesto	Z1202E ↗	E3	1.2	NA	49.0	16.6	1	106.3	582	21
Thunder	TX8211N ↗	RXF	1.1	R	48.9	16.1	2	107.3	581	22
Credenz	CZ 1331GTLL ↗	LLGT27	1.3	R	48.7	16.1	1	111.3	579	23
Pioneer	P09A53X § ↗	RRX	0.9	NA	48.3	16.5	2	112.0	574	24
Hefty	H12XF2 ↗	RXF	1.2	NA	47.8	16.2	1	105.3	568	25
Xitavo	XO 1041E ↗	E3	1.0	R	47.7	16.1	1	106.3	567	26
Zinesto	Z1302E ↗	E3	1.3	NA	47.6	16.2	1	109.3	566	27
Apex	AE1220 ↗	E3	1.2	R	47.5	16.6	1	106.0	564	28
Hefty	H10XF1 ↗	RXF	1.0	NA	47.4	16.1	2	108.0	564	29
Golden Harvest	GH1032XF § ↗	RXF	1.0	R	47.4	16.2	4	103.7	563	30
Dahlman	6010XN GC ↗	RRX	1.0	R	47.3	15.9	1	109.0	563	31
REA	R1350XF CK	RXF	1.3	NA	54.3	16.3	1	111.0	645	4

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Averages = **49.4** **16.3** **1** **109.7** **586**

LSD (0.10) = 4.1 0.2 ns

LSD (0.25) = 2.2 0.1 ns

C.V. = 7.9

Historic yield: 43.53 bu/a, 15 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.1 Drying = \$0.035 Prices: GMO = \$12.00

Report Date: 11/01/2021

† 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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Full-Season Test	Maturity Group 1.4 - 1.7 S2021SDNE11b
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
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TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Round-Up, Flexstar, Dual
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 13 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 29 111.9 /A

TEST COMMENTS:

There was a lack of rain early with as much as 5 inches below the 10-year average by the end of July. August 21 we had some hail, and it started to rain and August ended up with above average rainfall. The beans responded to the late rains, and we had 50 bushel beans at harvest. The field was weed-free and grain moistures were elevated from recent fall rains.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z1702E ↗	E3	1.7	NA	60.3	16.3	1	112.0	716	1
Hefty	H15XF2 ↗	RXF	1.5	NA	56.8	16.3	1	114.7	675	2
Golden Harvest	GH1762XF ↗	RXF	1.7	MR	56.3	16.3	1	111.3	669	3
Proseed	EL11-53N ↗	E3	1.5	R	56.1	16.4	1	107.3	667	4
Loyal	L1540E ↗	E3	1.5	R	55.9	16.2	1	112.3	664	5
Latham	L 1558 E3 ↗	E3	1.5	R	55.6	15.8	1	113.3	662	6
Stine	17EE32 § ↗	E3	1.7	R	55.3	16.4	1	109.0	657	7
Apex	AE1720 ↗	E3	1.7	R	55.0	16.5	1	105.7	653	9
NK Brand	NK17-M2XF ↗	RXF	1.7	R	54.5	16.3	1	114.7	648	10
Dairyland	DSR-1450E ↗	E3	1.4	R	54.1	16.0	1	108.3	643	11
Apex	AE1520 ↗	E3	1.5	R	53.8	16.2	1	111.0	640	12
Dyna-Gro	S15XF82 ↗	RXF	1.5	MR	53.7	16.4	1	115.3	638	13
Golden Harvest	GH1442XF § ↗	RXF	1.4	MR	53.3	16.2	1	109.3	634	14
Xitavo	XO 1632E ↗	E3	1.6	R	52.5	16.2	2	114.3	624	15
Dyna-Gro	S16XF51 ↗	RXF	1.6	R	52.4	16.0	1	118.7	623	16
Credenz	CZ 1660GTLL ↗	LLGT27	1.6	MR	52.1	16.1	1	116.5	620	17
Apex	AE1710 ↗	E3	1.7	R	52.0	15.9	1	111.3	619	18
Genesis	G1460E ↗	E3	1.4	R	51.8	16.3	1	115.0	616	19
Innotech	IS1575E3 ↗	E3	1.5	R	51.8	16.2	1	112.0	616	20
Latham	L 1648 LLGT27 ↗	LLGT27	1.6	R	51.7	16.0	1	115.7	615	21
Thunder	SB8015N ↗	RRX	1.5	R	51.4	16.3	1	115.0	611	22
Asgrow	AG15XF2 § ↗	RXF	1.5	R	51.1	16.3	1	113.7	607	23
Stine	14EE01 § ↗	E3	1.4	MR	51.1	16.3	1	110.7	607	24
Zinesto	Z1411E ↗	E3	1.4	R	50.7	16.2	1	110.0	603	25
Genesis	G1760E ↗	E3	1.7	R	50.7	16.5	1	110.3	602	26
Dahlman	1117E3N GC ↗	E3	1.7	R	50.6	16.0	1	111.3	602	27
Xitavo	XO 1761E ↗	E3	1.7	R	50.1	15.8	1	113.7	596	28
Genesis	G1560E ↗	E3	1.5	R	50.0	16.4	1	109.3	594	29
REA	R1532XF ↗	RXF	1.5	NA	49.9	16.1	1	115.0	593	31
Golden Harvest	GH1472E3 ↗	E3	1.4	R	49.9	15.7	1	111.3	594	30
REA	R1350XF CK	RXF	1.3	NA	55.2	16.5	1	113.0	656	8

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Averages = **50.4** **16.2** **1** **111.9** **600**

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LSD (0.25) = 2.3 0.1 ns

C.V. = 8.4

Historic yield: 43.53 bu/a, 15 yr(s)

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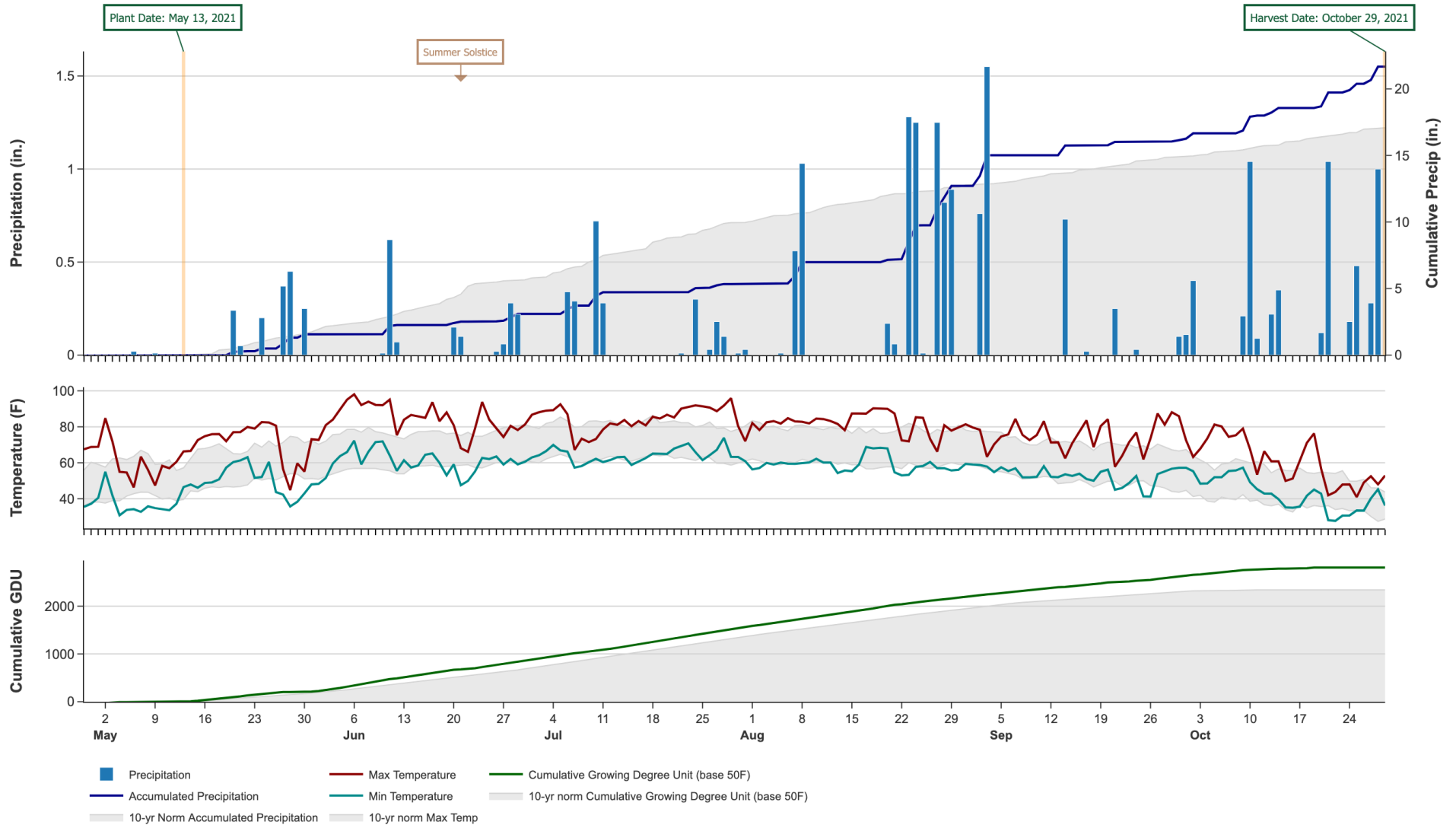
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2021 Soybeans - South Dakota Northeast [SDNE]

Weather Conditions Summary at WEBSTER, SD

Weather Data Retrieved: 11/01/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.0 0.2 (-0.2)	1.6 3.0 (-1.4)	1.5 3.9 (-2.4)	2.3 4.3 (-2.0)	7.3 2.8 (+4.5)	3.4 2.1 (+1.4)	5.5 2.2 (+3.3)	21.7 18.4 (+3.3)
GDU Normal (Diff)	18 0 (+18)	262 232 (+29)	635 507 (+127)	720 674 (+45)	631 592 (+38)	432 348 (+83)	178 37 (+140)	2876 2393 (+482)



* 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

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
LLGT27	LibertyLink® GT27®
RRX	Roundup Ready 2 Xtend®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

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

* Seed treatments may include unspecified plant health promoting components.