

Test by: NewVenture, LLC Ellendale, MN

2021 Soybeans Top 30 Harvest Report

Minnesota North Central [MNCC] ROYALTON, MN
Kenny Kasella, Morrison County, MN 56315

Early-Season Test	Maturity Group 0.6 - 0.9 S2021MNCC02a
Top 30 of 37	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Triple Flex, Roundup
SOIL DESCRIPTION:	Pomroy Loamy Fine Sand loamy sand, well drained, irrigated
SOIL CONDITION:	very high P, very high K, 5.4 pH, 1.0% OM, 4.2 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Authority First, Mad Dog, Outlook
FERTILITY - Applied N:	21 Spring
Applied N-P-K (units):	21-0-58
SEEDED - RATE - ROW:	May 11 140.0 /A 30" spacing
HARVESTED - STAND:	Nov 8 128.9 /A

TEST COMMENTS:

This is a very sandy irrigated plot site. The site was hit by a hail storm in mid-September. The hail seemed to hurt the early season test more than the full-season test. The early-season varieties may have been more mature which allowed beans to knock loose. Ken told me that he lost 15-20 bushels overnight due to the hail. Very little disease pressure was noted and the weed control was perfect. Thank you to Ken for hosting the plots again this year.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Dairyland	DSR-0847E ↗	E3	0.8	S	57.3	16.6	5	130.0	682	1
Latham	L 0984 XF ↗	RXF	0.9	R	50.1	17.2	5	128.7	596	3
Xitavo	XO 0602E ↗	E3	0.6	R	49.9	16.7	0	130.3	594	4
Stine	09EA02 § ↗	E3	0.9	R	49.1	16.5	0	129.7	585	5
Dyna-Gro	S09EN41 ↗	E3	0.9	R	47.6	16.9	0	128.7	567	6
Hefty	H08XF2 ↗	RXF	0.8	NA	46.6	16.3	0	129.0	555	7
Latham	L 0995 E3 ↗	E3	0.9	R	46.5	16.8	0	129.0	554	8
Zinesto	Z0702E ↗	E3	0.7	NA	45.8	17.0	0	128.3	545	9
Dyna-Gro	S07EN61 ↗	E3	0.7	R	45.2	17.1	0	129.7	538	10
Loyal	L0740E ↗	E3	0.7	R	44.5	16.7	0	128.7	530	11
NK Brand	NK08-B7XF ↗	RXF	0.8	R	43.8	17.5	0	128.7	521	12
Latham	L 0785 E3 ↗	E3	0.7	R	43.7	16.8	0	129.7	520	13
Asgrow	AG09XF0 § ↗	RXF	0.9	R	43.5	16.1	0	129.0	519	14
Xitavo	XO 0731E ↗	E3	0.7	R	43.5	16.8	0	128.3	518	15
Pioneer	P09A53X § ↗	RRX	0.9	NA	42.5	16.9	0	129.3	506	16
Golden Harvest	GH0822XF § ↗	RXF	0.8	R	41.7	16.8	27	129.3	496	17
Genesis	G0760E ↗	E3	0.7	R	41.5	17.1	0	127.0	494	18
Credenz	CZ 0661GTLL ↗	LLGT27	0.6	R	41.3	17.6	0	129.7	491	19
Dairyland	DSR-1010E ↗	E3	1.0	R	41.1	17.0	0	128.0	489	20
NK Brand	NK08-V9E3 § ↗	E3	0.8	R	39.9	16.9	0	129.0	475	21
Apex	AE0720 ↗	E3	0.7	R	38.3	16.3	0	128.3	456	22
Golden Harvest	GH0749X ↗	RRX	0.7	MR	37.7	16.5	0	129.7	449	23
Thunder	TE7207 ↗	E3	0.7	S	37.5	17.0	0	128.3	446	24
Hefty	H07XF1 ↗	RXF	0.7	NA	37.4	16.3	1	129.3	446	25
Hefty	H06XF2 ↗	RXF	0.6	NA	36.8	16.4	0	128.7	438	26
Thunder	TX8109N ↗	RXF	0.9	R	36.5	16.4	0	129.3	435	27
Dairyland	DSR-0660E ↗	E3	0.6	R	36.5	16.5	3	128.0	435	28
Golden Harvest	GH0842E3 ↗	E3	0.8	R	36.4	16.6	1	128.3	434	29
Thunder	TX8207N ↗	RXF	0.7	R	36.2	16.3	0	128.7	431	30
Latham	L 0728 XF ↗	RXF	0.7	R	36.1	16.5	0	129.3	430	31
Dahlman	6015XN CK	RRX	1.5	R	53.0	17.0	0	128.7	631	2

Averages = **41.4** **16.7** **1** **128.9** **493**

LSD (0.10) = 7.8 0.4 ns

LSD (0.25) = 4.1 0.2 ns

Ed Dahle

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C.V. = 17.7

Historic yield: 42.97 bu/a, 2 yr(s)

Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$12.00

Report Date: 11/08/2021

† 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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2021 Soybeans Top 30 Harvest Report

Minnesota North Central [MNNC] ROYALTON, MN
Kenny Kasella, Morrison County, MN 56315

Full-Season Test	Maturity Group 1.0 - 1.5 S2021MNNC02b
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Triple Flex, Roundup
SOIL DESCRIPTION:	Pomroy Loamy Fine Sand loamy sand, well drained, irrigated
SOIL CONDITION:	very high P, very high K, 5.4 pH, 1.0% OM, 4.2 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Authority First, Mad Dog, Outlook
FERTILITY - Applied N:	21 Spring
Applied N-P-K (units):	21-0-58
SEEDED - RATE - ROW:	May 11 140.0 /A 30" spacing
HARVESTED - STAND:	Nov 8 129.0 /A

TEST COMMENTS:

This is a very sandy irrigated plot site. The site was hit by a hail storm in mid-September. The hail seemed to hurt the early season test more than the full-season test. The early-season varieties may have been more mature which allowed beans to knock loose. Ken told me that he lost 15-20 bushels overnight due to the hail. Very little disease pressure was noted and the weed control was perfect. Thank you to Ken for hosting the plots again this year.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z1302E ↗	E3	1.3	NA	67.7	17.0	0	129.3	806	2
Zinesto	Z1502E ↗	E3	1.5	NA	67.6	17.1	1	129.3	804	3
Dairyland	DSR-1450E ↗	E3	1.4	R	67.3	16.8	5	128.7	801	4
Xitavo	XO 1451E ↗	E3	1.4	R	65.5	16.9	0	128.3	780	5
Hefty	H11XF2 ↗	RXF	1.1	NA	64.7	17.5	0	128.7	769	6
Loyal	L1440E ↗	E3	1.4	R	64.6	16.7	0	130.3	769	7
Xitavo	XO 1372E ↗	E3	1.3	R	64.5	16.9	1	128.3	768	8
Zinesto	Z1202E ↗	E3	1.2	NA	64.4	17.5	0	129.3	766	9
Loyal	L1540E ↗	E3	1.5	R	63.7	17.0	1	129.7	758	10
Hefty	H12XF2 ↗	RXF	1.2	NA	63.7	17.1	3	128.3	758	11
Stine	14EE01 § ↗	E3	1.4	MR	63.6	17.4	12	129.3	756	12
Golden Harvest	GH1472E3 ↗	E3	1.4	R	63.5	16.8	3	128.7	756	13
Latham	L 1558 E3 ↗	E3	1.5	R	63.2	17.2	8	127.7	752	14
Apex	AE1420 ↗	E3	1.4	R	62.4	16.7	0	129.0	743	15
Dahlman	6815XN GC ↗	RRX	1.5	R	62.4	17.3	0	129.0	742	16
Thunder	TX8215N ↗	RXF	1.5	R	62.2	17.3	0	129.3	740	17
Genesis	G1560E ↗	E3	1.5	R	61.8	17.3	16	129.0	735	18
Dairyland	DSR-1318E ↗	E3	1.3	R	61.8	17.6	0	129.0	734	19
Pioneer	P15A63X § ↗	RRX	1.5	NA	61.3	17.0	0	129.0	730	20
Dahlman	1111E3N GC ↗	E3,ST	1.1	R	61.1	16.9	0	130.0	727	21
Zinesto	Z1101E ↗	E3	1.1	R	60.1	17.2	0	128.3	715	22
Loyal	L1230ES ↗	E3,ST	1.2	R	59.4	17.1	11	127.7	707	23
Credenz	CZ 1331GTLL ↗	LLGT27	1.3	R	59.3	17.0	0	129.0	706	24
Loyal	L1240E ↗	E3	1.2	R	59.3	17.4	0	129.3	705	25
Apex	AE1520 ↗	E3	1.5	R	59.2	17.0	0	129.3	705	26
Asgrow	AG15XF2 § ↗	RXF	1.5	R	58.9	17.1	2	131.0	701	27
Thunder	TE7011N ↗	E3	1.1	R	58.8	17.6	0	130.7	699	29
Dairyland	DSR-1290E ↗	E3	1.2	R	58.8	16.5	0	129.0	700	28
Xitavo	XO 1212E ↗	E3	1.2	R	58.7	17.1	0	128.7	698	30
NK Brand	NK14-W6E3 ↗	E3	1.4	MR	58.6	16.6	8	129.3	698	31
Dahlman	6015XN CK	RRX	1.5	R	69.1	17.2	0	129.7	822	1
					Averages =	58.9	17.1	2	129.0	701
					LSD (0.10) =	7.0	0.3	ns		
					LSD (0.25) =	3.7	0.2	ns		
Ed Dahle					C.V. =	11.3				
ed.dahle@firstseedtests.com, (507) 456-6624								Historic yield: 42.97 bu/a, 2 yr(s)		

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$12.00

Report Date: 11/08/2021

† 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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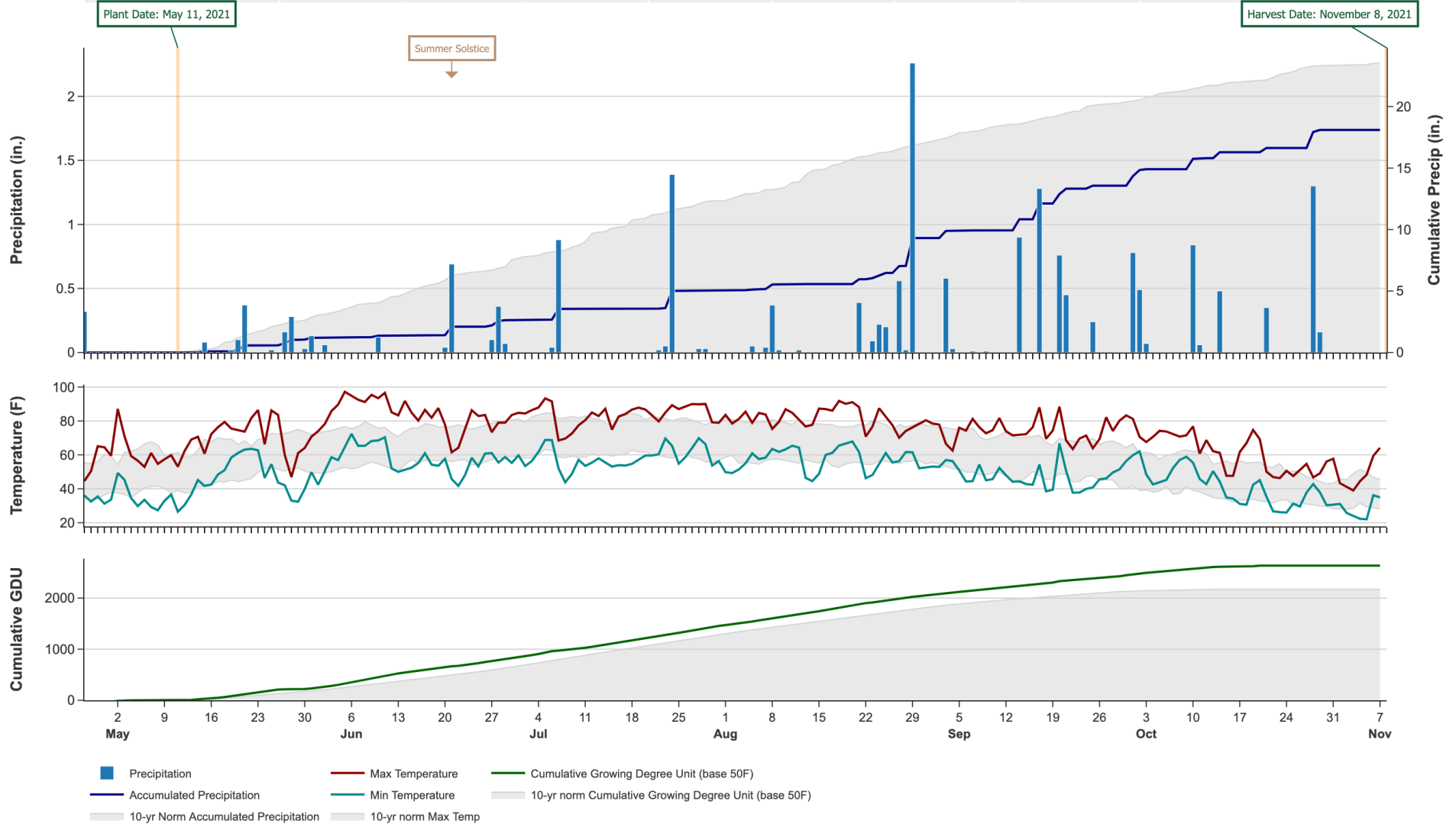
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2021 Soybeans - Minnesota North Central [MNNC]

Weather Conditions Summary at ROYALTON, MN

Weather Data Retrieved: 11/08/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct	Nov*	Total
Precip (in) Normal (Diff)	0.3 0.5 (-0.1)	1.2 4.2 (-3.0)	1.4 4.7 (-3.2)	2.4 4.8 (-2.4)	4.2 4.8 (-0.5)	4.3 3.3 (+1.0)	4.5 3.0 (+1.6)	0.0 0.2 (-0.2)	18.4 25.4 (-7.0)
GDU Normal (Diff)	8 0 (+8)	261 222 (+38)	588 465 (+122)	634 634 (0)	601 532 (+68)	393 316 (+76)	186 37 (+148)	0 0 (0)	2671 2209 (+461)



* 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 - Minnesota North Central [MNNC]

Early-Season Test Products (37 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE0611	E3	R	0.6	CMBV,SA
Apex	AE0720	E3	R	0.7	CMBV,SA
Asgrow	AG09XF0 §	RXF	R	0.9	ACi,IL
Credenz	CZ 0661GTLL	LLGT27	R	0.6	PV,IL,OB
Dahlman	6015XN CK	RRX	R	1.5	IS
Dairyland	DSR-0660E	E3	R	0.6	Lum,IL
Dairyland	DSR-0847E	E3	S	0.8	Lum,IL
Dairyland	DSR-1010E	E3	R	1.0	Lum,IL
Dyna-Gro	S07EN61	E3	R	0.7	EQV,SA
Dyna-Gro	S09EN41	E3	R	0.9	EQV,SA
Genesis	G0651E	E3	R	0.6	CMBV,SA
Genesis	G0760E	E3	R	0.7	CMBV,SA
Golden Harvest	GH0749X	RRX	MR	0.7	CMBV,SA
Golden Harvest	GH0822XF §	RXF	R	0.8	CMBV,SA
Golden Harvest	GH0842E3	E3	R	0.8	CMBV,SA
Hefty	H06X8	RRX	MR	0.6	DST4,SA
Hefty	H06XF2	RXF	NA	0.6	DST4,SA
Hefty	H07XF1	RXF	NA	0.7	DST4,SA
Hefty	H08XF2	RXF	NA	0.8	DST4,SA
Latham	L 0728 XF	RXF	R	0.7	SS+,SA
Latham	L 0785 E3	E3	R	0.7	SS+,SA
Latham	L 0984 XF	RXF	R	0.9	SS+,SA
Latham	L 0995 E3	E3	R	0.9	SS+,SA
Loyal	L0640E	E3	R	0.6	CMBV,SA
Loyal	L0740E	E3	R	0.7	CMBV,SA
NK Brand	NK08-B7XF	RXF	R	0.8	CMBV,SA
NK Brand	NK08-V9E3 §	E3	R	0.8	CMBV,SA
Pioneer	P09A53X §	RRX	NA	0.9	Lum,Lu
Stine	09EA02 §	E3	R	0.9	SFI
Thunder	SB8807N	RRX	R	0.7	AM
Thunder	TE7207	E3	S	0.7	AM
Thunder	TX8109N	RXF	R	0.9	AM
Thunder	TX8207N	RXF	R	0.7	AM
Xitavo	XO 0602E	E3	R	0.6	PV,IL,OB
Xitavo	XO 0731E	E3	R	0.7	PV,IL,OB
Zinesto	Z0602E	E3	NA	0.6	DST4,SA
Zinesto	Z0702E	E3	NA	0.7	DST4,SA

2021 Soybeans - Minnesota North Central [MNNC]

Full-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1220	E3	R	1.2	CMBV,SA
Apex	AE1420	E3	R	1.4	CMBV,SA
Apex	AE1520	E3	R	1.5	CMBV,SA
Asgrow	AG10XF1 §	RXF	R	1.0	ACi,IL
Asgrow	AG15XF2 §	RXF	R	1.5	ACi,IL
Credenz	CZ 1171GTLL	LLGT27	MR	1.1	PV,IL,OB
Credenz	CZ 1331GTLL	LLGT27	R	1.3	PV,IL,OB
Dahlman	111E3N GC	E3,ST	R	1.1	IS
Dahlman	6015XN CK	RRX	R	1.5	IS
Dahlman	6815XN GC	RRX	R	1.5	IS
Dairyland	DSR-0920E	E3	R	0.9	Lum,IL
Dairyland	DSR-1290E	E3	R	1.2	Lum,IL
Dairyland	DSR-1318E	E3	R	1.3	Lum,IL
Dairyland	DSR-1450E	E3	R	1.4	Lum,IL
Dyna-Gro	S12XF92	RXF	R	1.2	EQV,SA
Dyna-Gro	S15XF82	RXF	MR	1.5	EQV,SA
Genesis	G1260E	E3	R	1.2	CMBV,SA
Genesis	G1460E	E3	R	1.4	CMBV,SA
Genesis	G1560E	E3	R	1.5	CMBV,SA
Gold Country	1041XF	RXF	R	1.0	ACi,IL
Golden Harvest	GH1032XF	RXF	R	1.0	CMBV,SA
Golden Harvest	GH1442XF	RXF	MR	1.4	CMBV,SA
Golden Harvest	GH1472E3	E3	R	1.4	CMBV,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
Hefty	H14XF1	RXF	NA	1.4	DST4,SA
Latham	L 1219 E3	E3	R	1.2	SS+,SA
Latham	L 1383 XF	RXF	R	1.3	SS+,SA
Latham	L 1392 E3	E3	R	1.3	SS+
Latham	L 1558 E3	E3	R	1.5	SS+,SA
Loyal	L1230ES	E3,ST	R	1.2	CMBV,SA
Loyal	L1240E	E3	R	1.2	CMBV,SA
Loyal	L1440E	E3	R	1.4	CMBV,SA
Loyal	L1540E	E3	R	1.5	CMBV,SA
NK Brand	NK10-W8XF	RXF	R	1.0	CMBV,SA
NK Brand	NK14-C7XF §	RXF	R	1.4	CMBV,SA
NK Brand	NK14-W6E3	E3	MR	1.4	CMBV,SA
Pioneer	P11A44X §	RRX	R	1.1	Lum,Lu,IL
Pioneer	P15A63X §	RRX	NA	1.5	Untreated
Stine	11EC02 §	E3	R	1.1	SFI
Stine	14EE01 §	E3	MR	1.4	Treated

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Thunder	SB8010N	RRX	R	1.0	AM
Thunder	TE7011N	E3	R	1.1	AM
Thunder	TX8211N	RXF	R	1.1	AM
Thunder	TX8215N	RXF	R	1.5	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
Xitavo	XO 1451E	E3	R	1.4	PV,IL,OB
Zinesto	Z1101E	E3	R	1.1	DST4,SA
Zinesto	Z1202E	E3	NA	1.2	DST4,SA
Zinesto	Z1302E	E3	NA	1.3	DST4,SA
Zinesto	Z1502E	E3	NA	1.5	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,SA	Cruisermaxx® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
EQV,SA	Equity VIP, Saltro®
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
SF1	Stine XP F&I
SS+	SoyShield Plus
SS+,SA	SoyShield Plus, Saltro®
Treated	Treated, unspecified
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.