

Test by: NewVenture, LLC Ellendale, MN

2021 Soybeans Top 30 Harvest Report

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

Early-Season Test 1.3 - 1.6 Day CRM
S2021MNCE03a

Top 30 of 42 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Corn / Halex Gt, Class Act

SOIL DESCRIPTION: Hokans-Buse Complex loam,
well drained, non-irrigated

SOIL CONDITION: very high P, medium K, 7.6 pH,
2.9% OM, 19.5 CEC

TILLAGE/CULTIVATION: Conventional W/ Fall Till

PEST MANAGEMENT: Class Act, Interlock, Roundup
Power Max, Ultra Blazer,
Destiny Hc, Flexstar, Section
Three

Applied N-P-K (units): 13-64-45

SEEDED - RATE - ROW: May 12 140.0 /A 30" spacing

HARVESTED - STAND: Sep 28 128.8 /A

TEST COMMENTS:

I have planted at this exact location for many years. Matt and Jim (landowner) have never seen a growing season so dry. Jim said that they received 0.4" of rain from planting to August, after that they did get 4-5". The weed control was okay with a few escape areas that choked out the beans. The lack of rain during the growing season made for a tough time at this site. Yield results were rejected due to drought stress with no significant variety differences.

Company/Brand	Product/Brand	Yield †	GR	SCN Resist.	Yield Bu/A †	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Latham	L 1088 E3 †	E3	1.8	R	20.8	8.1	0	124.0	206	1
Mt Brand	M814-CT87 †	80P	1.4	R	19.8	8.8	0	128.3	245	2
Danland	D88-1488 †	E3	1.4	R	19.2	8.3	0	121.7	240	4
Klase	K0-1481E †	E3	1.4	R	19.2	8.4	0	120.7	240	5
Mt Brand	M814-8823 †	E3	1.4	NR	19.1	11.5	0	121.7	239	6
Loyal	L 1048E †	E3	1.8	R	19.7	8.4	0	126.7	239	7
Agri	AG1410 †	E3	1.8	R	19.7	8.4	0	126.7	239	8
Stax	148311 g †	E3	1.4	NR	19.0	7.5	0	121.7	239	9
Klase	K0-1378E †	E3	1.4	R	19.0	8.4	0	121.3	239	10
Golden Harvest	G814-8287 †	80P	1.4	NR	19.0	8.4	0	126.7	239	11
Zeevis	Z1088E †	E3	1.8	NR	19.0	8.4	0	126.3	239	12
Dyn-Gro	D1088E †	E3	1.8	NR	19.0	8.7	0	126.7	239	13
Zeevis	Z1088E †	E3	1.8	NR	19.0	8.8	0	126.7	239	14
Genesee	G1088E †	E3	1.8	R	19.0	8.8	0	126.3	239	15
Genesee	G1488E †	E3	1.8	R	19.8	8.3	0	127.7	239	16
Latham	L 1428-LL87P †	LL87P	1.8	R	19.8	10.1	0	126.3	239	17
Crabtree	C2-1888P-LL †	LL87P	1.8	NR	19.8	8.4	0	127.3	239	18
Holly	H1088P1 †	80P	1.8	NR	19.8	8.4	0	126.7	239	19
Danland	D88-1388E †	E3	1.8	R	19.8	8.8	0	126.7	239	20
Latham	L 1088 E3 †	E3	1.8	R	19.8	8.8	0	126.0	239	21
Zeevis	Z1088E †	E3	1.8	R	19.8	8.8	0	121.0	239	22
Genesee	G1088E †	E3	1.8	R	19.8	8.4	0	126.7	239	23
Agri	AG1410 †	E3	1.4	R	19.8	8.8	0	126.7	239	24
Holly	H1088P1 †	80P	1.8	NR	19.8	8.8	0	121.0	239	25
Loyal	L 1288E †	E3,87	1.2	R	19.8	8.7	0	127.0	239	26
Loyal	L 1488E †	E3	1.4	R	19.8	8.1	0	126.3	239	27
Latham	L 1088-LL87P †	LL87P	1.8	R	19.7	8.8	0	126.3	239	28
Holly	H1088P2 †	80P	1.8	NR	19.7	8.8	0	126.3	239	29
Holly	H1088P2 †	80P	1.8	NR	19.8	8.8	0	127.7	239	30
Crabtree	C2-1888P-LL †	LL87P	1.8	R	19.8	10.2	0	126.0	239	31

REJECTED

Averages = **18.8** **9.2** **128.8** **236**

LSD (0.10) = ns ns ns

LSD (0.25) = ns ns ns

C.V. = 4.6 Historic yield: 46.42 bu/a, 6 yr(s)

Ed Dahle

ed.dahle@firstseedtests.com, (507) 456-6624

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$12.50

Report Date: 09/29/2021

Additional reports available at 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

©2021, All rights reserved by Elite Field Genetics, LLC

Test by: NewVenture, LLC Ellendale, MN

2021 Soybeans Top 30 Harvest Report

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

Full-Season Test	1.7 - 2.0 Day CRM S2021MNCE03b
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Halex Gt, Class Act
SOIL DESCRIPTION:	Hokans-Buse Complex loam, well drained, non-irrigated
SOIL CONDITION:	very high P, medium K, 7.6 pH, 2.9% OM, 19.5 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Class Act, Interlock, Roundup Power Max, Ultra Blazer, Destiny Hc, Flexstar, Section Three
Applied N-P-K (units):	13-64-45
SEEDED - RATE - ROW:	May 12 140.0 /A 30" spacing
HARVESTED - STAND:	Sep 28 128.5 /A

TEST COMMENTS:

I have planted at this exact location for many years. Matt and Jim (landowner) have never seen a growing season so dry. Jim said that they received 0.4" of rain from planting to August, after that they did get 4-5". The weed control was okay with a few escape areas that choked out the beans. The lack of rain during the growing season made for a tough time at this site. Yield results were rejected due to drought stress with no significant variety differences.

Company/Brand	Product/Brand	Yield †	Mo	Wt	Wt Moist	Yield Bu/a †	Moisture %	lodging %	Stand (x 1000)	Gross Income \$/acre	Rank
Zeevis	Z1702E +	83	1.7	NA	20.4	8.8	0	128.3	200	1	
Holly	H02021 +	80P	2.0	NA	20.0	8.7	0	127.7	200	2	
Power	P02020 g +	80S	1.8	NA	19.8	8.4	0	127.7	200	3	
Alton	AO 1702E +	83	1.7	R	19.8	8.7	0	126.7	200	4	
Holly	H02022 +	80P	1.8	NA	19.3	8.7	0	126.7	201	5	
Federal	F10206 +	80P	1.8	R	19.3	8.7	0	126.0	201	6	
Agave	A02021 g +	80P	2.0	NA	19.1	7.1	0	126.0	201	7	
Dorland	DOA 2020E +	83	1.9	R	19.1	8.4	0	126.0	201	8	
Dynacore	D17020 +	80P	1.8	NA	19.2	7.1	0	126.0	200	9	
Genesee	G1702E +	83	1.7	R	19.2	8.7	0	127.7	200	10	
Holly	H02021 +	80P	1.8	NA	19.3	8.7	0	126.3	200	11	
Latham	L 1700E3 +	83	1.8	R	19.3	8.1	0	126.7	200	12	
Loyal	L1702E +	83	1.7	R	19.1	8.8	0	126.3	200	13	
Golden Harvest	G017020P g +	80P	1.7	NA	19.3	8.3	0	126.3	200	14	
Dynacore	D17020 +	80P	1.8	NA	19.0	8.2	0	126.7	200	15	
Agave	A01702E +	83	1.7	R	19.0	8.0	0	126.3	200	16	
LS Seeds	LS017020P GC +	80P	1.7	R	19.0	8.0	0	126.3	200	17	
LS Seeds	LS02020P GC +	80P	1.8	R	19.0	8.7	0	126.3	200	18	
Dorland	DOA 1702E +	83	1.7	R	19.0	7.8	0	126.7	200	19	
Dorland	D017020E +	83	1.7	R	19.0	7.8	0	126.3	200	20	
Agave	A01702E +	83	1.8	R	19.0	8.8	0	126.0	200	21	
Dorland	DOA 1702E +	83	2.0	R	19.0	8.1	0	126.3	200	22	
Loyal	L1702E +	83	1.8	R	19.0	8.2	0	126.7	200	23	
Alton	AO 1802E +	83	1.8	R	19.0	8.2	0	121.0	200	24	
Loyal	L1702E +	83	1.8	R	19.0	8.2	0	126.0	200	25	
Genesee	G1702E +	83	1.8	R	19.0	8.6	0	126.3	200	26	
Power	P02020 g +	83	2.0	R	19.0	8.0	0	126.7	200	27	
Genesee	G1702E +	83	1.8	R	19.0	8.1	0	126.0	200	28	
Zeevis	Z1702E +	83	1.8	NA	19.0	8.2	0	126.0	200	29	
LS Seeds	LS18 1702E g +	83	1.8	NA	19.0	8.3	0	126.0	200	30	

REJECTED

Averages = **18.9** **9.0** **128.5** **236**

LSD (0.10) = ns ns ns

LSD (0.25) = ns ns ns

C.V. = 4.6

Historic yield: 46.42 bu/a, 6 yr(s)

Ed Dahle

ed.dahle@firstseedtests.com, (507) 456-6624

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$12.50

Report Date: 09/29/2021

† 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

©2021, All rights reserved by Elite Field Genetics, LLC

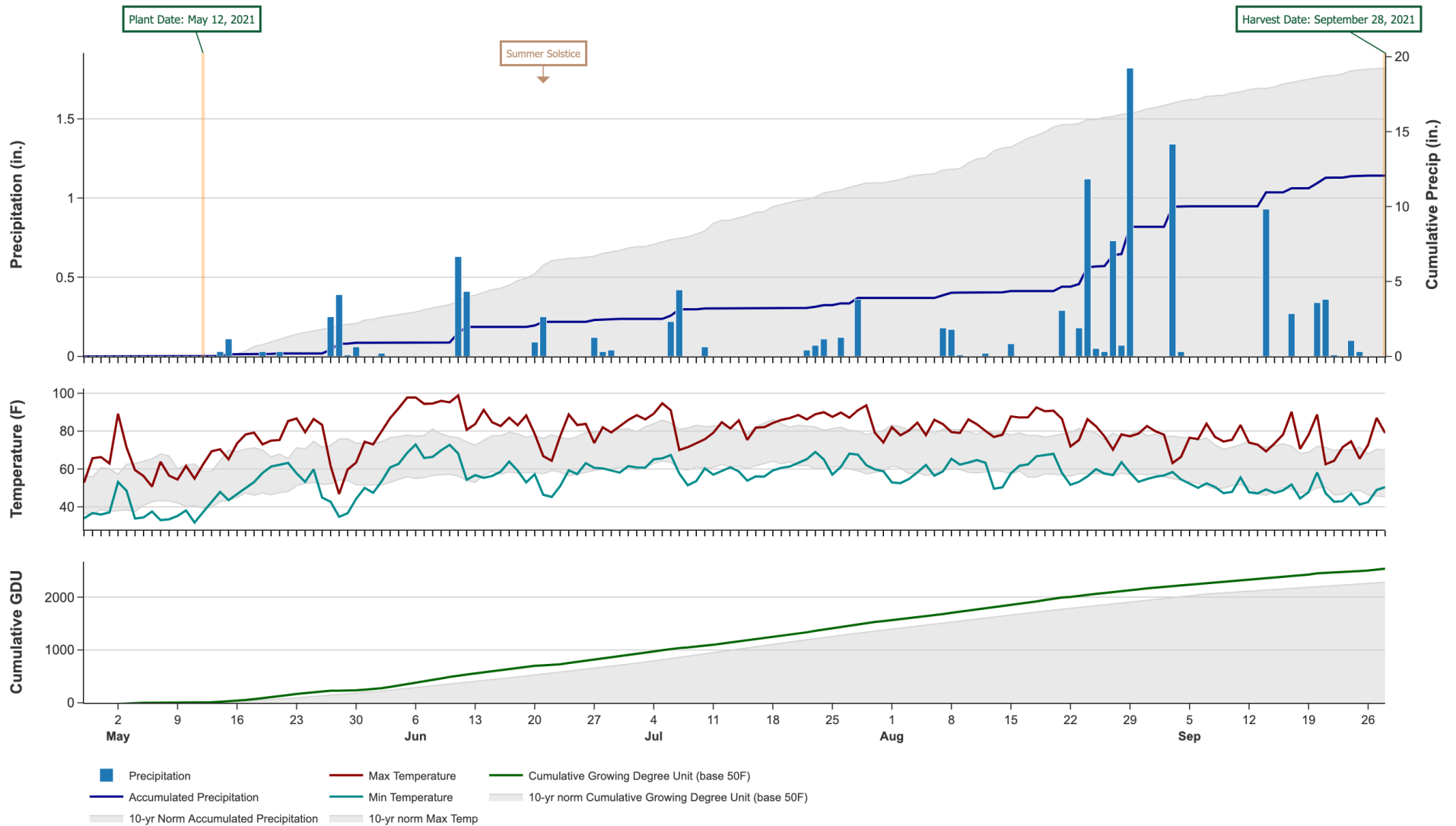
Additional reports available at www.firstseedtests.com

2021 Soybeans - Minnesota Central [MNCE]

Weather Conditions Summary at STARBUCK, MN

Weather Data Retrieved: 09/29/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep*	Total
Precip (in) Normal (Diff)	0.0 0.3 (-0.3)	0.9 3.7 (-2.8)	1.6 4.7 (-3.1)	1.4 4.5 (-3.1)	4.8 4.9 (-0.2)	3.4 2.7 (+0.7)	12.1 20.8 (-8.8)
GDU Normal (Diff)	16 0 (+16)	285 260 (+24)	626 511 (+114)	672 666 (+5)	620 575 (+44)	372 332 (+39)	2591 2346 (+244)



* 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 Central [MNCE]

Early-Season Test Products (42 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1410	E3	R	1.4	CMBV,SA
Apex	AE1420	E3	R	1.4	CMBV,SA
Apex	AE1520	E3	R	1.5	CMBV,SA
Asgrow	AG15XF2 §	RXF	R	1.5	ACi,IL
Credenz	CZ 1331GTLL	LLGT27	R	1.3	PV,IL,OB
Credenz	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
Dairyland	DSR-1318E	E3	R	1.3	Lum,IL
Dairyland	DSR-1450E	E3	R	1.4	Lum,IL
Dairyland	DSR-1673E	E3	R	1.6	Lum,IL
Dyna-Gro	S15XF82	RXF	MR	1.5	EQV,SA
Genesis	G1340E	E3	R	1.3	CMBV,SA
Genesis	G1460E	E3	R	1.4	CMBV,SA
Genesis	G1560E	E3	R	1.5	CMBV,SA
Genesis	G1650E	E3	R	1.6	CMBV,SA
Gold Country	1609X	RRX	R	1.6	ACi,IL
Golden Harvest	GH1442XF	RXF	MR	1.4	CMBV,SA
Golden Harvest	GH1472E3 §	E3	R	1.4	CMBV,SA
Hefty	H13XF1	RXF	NA	1.3	DST4,SA
Hefty	H14XF1	RXF	NA	1.4	DST4,SA
Hefty	H15XF2	RXF	NA	1.5	DST4,SA
Hefty	H16XF2	RXF	NA	1.6	DST4,SA
Latham	L 1383 XF	RXF	R	1.3	SS+,SA
Latham	L 1429 LLGT27	LLGT27	R	1.4	SS+,SA
Latham	L 1558 E3	E3	R	1.5	SS+,SA
Latham	L 1648 LLGT27	LLGT27	R	1.6	SS+
Loyal	L1230ES	E3,ST	R	1.2	CMBV,SA
Loyal	L1440E	E3	R	1.4	CMBV,SA
Loyal	L1540E	E3	R	1.5	CMBV,SA
NK Brand	NK14-C7XF	RXF	R	1.4	CMBV,SA
NK Brand	NK14-W6E3	E3	MR	1.4	CMBV,SA
Pioneer	P15A63X CK	RRX	NA	1.5	Untreated
Pioneer	P16T58E §	E3	R	1.6	Lum,Lu
Stine	14EE01 §	E3	MR	1.4	Treated
Thunder	SB8015N	RRX	R	1.5	AM
Thunder	TX8215N	RXF	R	1.5	AM
Xitavo	XO 1372E	E3	R	1.3	PV,IL,OB

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Xitavo	XO 1451E	E3	R	1.4	PV,IL,OB
Xitavo	XO 1632E	E3	R	1.6	PV,IL,OB
Zinesto	Z1302E	E3	NA	1.3	DST4,SA
Zinesto	Z1411E	E3	R	1.4	DST4,SA
Zinesto	Z1502E	E3	NA	1.5	DST4,SA
Zinesto	Z1601E	E3	R	1.6	DST4,SA

* FIRST does not inspect products for refuge blend. N* indicates the product was entered without a refuge component by the sponsoring seed company. Prior year entries may contain refuge blend.

2021 Soybeans - Minnesota Central [MNCE]

Full-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1720	E3	R	1.7	CMBV,SA
Apex	AE1920	E3	R	1.9	CMBV,SA
Apex	AE1930	E3	R	1.9	CMBV,SA
Apex	AE2020	E3	R	2.0	CMBV,SA
Asgrow	AG18XF1 §	RXF	R	1.8	Untreated
Asgrow	AG20XF1 §	RXF	R	2.0	ACi,IL
Dahlman	1117E3N GC	E3	R	1.7	IS
Dahlman	7220XF GC	RXF	NA	2.0	IS
Dairyland	DSR-1707E	E3	R	1.7	Lum,IL
Dairyland	DSR-1820E	E3	R	1.8	Lum,IL
Dairyland	DSR-2030E	E3	R	1.9	Lum,IL
Dairyland	DSR-2040E	E3	R	2.0	Lum,IL
Dyna-Gro	S17XF02	RXF	MR	1.7	EQV,SA
Dyna-Gro	S18EN52	E3	MR	1.8	EQV,SA
Dyna-Gro	S19EN21	E3	R	1.9	EQV,SA
Federal	F1909N	LLGT27	R	1.9	MAG
Federal	F1920N	RXF	R	1.9	MAG
Genesis	G1760E	E3	R	1.7	CMBV,SA
Genesis	G1960E	E3	R	1.9	CMBV,SA
Genesis	G1970E	E3	R	1.9	CMBV,SA
Genesis	G2060E	E3	R	2.0	CMBV,SA
Golden Harvest	GH1762XF §	RXF	MR	1.7	CMBV,SA
Golden Harvest	GH1802E3	E3	R	1.8	CMBV,SA
Hefty	H17XF1	RXF	NA	1.7	DST4,SA
Hefty	H18XF2	RXF	NA	1.8	DST4,SA
Hefty	H20XF1	RXF	NA	2.0	DST4,SA
Hefty	H20XF2	RXF	NA	2.0	DST4,SA
Latham	L 1784 XF	RXF	R	1.7	SS+,SA
Latham	L 1948 R2X	RRX	R	1.9	SS+,SA
Latham	L 1995 E3	E3	R	1.9	SS+,SA
Latham	L 2049 E3	E3	R	2.0	SS+,SA
LG Seeds	LGS1769XF GC	RXF	R	1.7	ACi,SA
LG Seeds	LGS2025XF GC	RXF	R	2.0	ACi,SA
Loyal	L1740E	E3	R	1.7	CMBV,SA
Loyal	L1940E	E3	R	1.9	CMBV,SA
Loyal	L1950E	E3	R	1.9	CMBV,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Loyal	L2040E	E3	R	2.0	CMBV,SA
NK Brand	NK17-M2XF	RXF	R	1.7	CMBV,SA
NK Brand	NK18-J7E3 §	E3	MR	1.8	CMBV,SA
NK Brand	NK19-C8XF	RXF	R	1.9	CMBV,SA
Pioneer	P15A63X CK	RRX	NA	1.5	Untreated
Pioneer	P18A33X §	RRX	NA	1.8	Lum,Lu
Pioneer	P20T64E §	E3	R	2.0	Lum,Lu
Stine	17EE32 §	E3	R	1.7	SFI
Stine	20EE23 §	E3	R	2.0	Untreated
Thunder	TE7218N	E3	R	1.8	AM
Thunder	TX8117N	RXF	R	1.7	AM
Thunder	TX8220N	RXF	R	2.0	AM
Xitavo	XO 1761E	E3	R	1.7	PV,IL,OB
Xitavo	XO 1822E	E3	R	1.8	PV,IL,OB
Zinesto	Z1702E	E3	NA	1.7	DST4,SA
Zinesto	Z1802E	E3	NA	1.8	DST4,SA
Zinesto	Z1902E	E3	NA	1.9	DST5
Zinesto	Z2002E	E3	NA	2.0	DST4,SA

* FIRST does not inspect products for refuge blend. N* indicates the product was entered without a refuge component by the sponsoring seed company. Prior year entries may contain refuge blend.

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
ACi,SA	Acceleron® Standard Insecticide-Fungicide, Saltro®
AM	ApronMaxx
CMBV,SA	Cruisermassx® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
DST5	Dominance 5 ST
EQV,SA	Equity VIP, Saltro®
IS	Intego® Suite
Lum,IL	LumiGEN™ plus ILeVO
Lum,Lu	LumiGEN™, Lumisena™
MAG	MaxArmor Guard (Federal Hybrids)
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SFI	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.