

Test by: NewVenture, LLC Ellendale, MN

2021 Soybeans Top 30 Harvest Report

Minnesota Central [MNCE] CANBY, MN
Austen Citrowski, Yellow Medicine County, MN

Early-Season Test	Maturity Group 1.3 - 1.6 S2021MNCE02a
Top 30 of 42	For Gross Income (Sorted by Yield) Average of (2) Replications
PREV. CROP/HERB:	Corn / NA
SOIL DESCRIPTION:	Amiret Swanlake Loams, Canisteo Clay Loam loam, mod. well drained, non-irrigated
SOIL CONDITION:	low P, very high K, 7.6 pH, 4.3% OM, 26.7 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Valor, Roundup, Veltyma, Bifenthrin
Applied N-P-K (units):	0-0-60
SEDED - RATE - ROW:	May 13 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 25 129.4 /A

TEST COMMENTS:

The tests at this site were planted side-by-side. The full-season test was on a very level part of the field. The early season test did get to be on a very slight slope. The yields in the early test did go down on that slight slope. Austen said that the rains in August really helped things along. The weed control was excellent. The beans combined easily for me today. One low-yielding replicate causing higher variability in the early-season test was removed.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z1502E	E3	1.5	NA	70.0	14.5	0	129.5	837	1
Golden Harvest	GH1472E3 §	E3	1.4	R	61.8	14.4	0	129.5	740	2
Xitavo	XO 1372E	E3	1.3	R	61.5	14.5	0	131.0	736	3
Hefty	H14XF1	RXF	1.4	NA	59.3	14.4	0	128.5	710	4
Golden Harvest	GH1442XF	RXF	1.4	MR	56.6	14.4	13	127.0	677	5
Credenz	CZ 1660GTLL	LLGT27	1.6	MR	54.7	14.7	0	129.0	653	6
Latham	L 1558 E3	E3	1.5	R	54.4	14.5	0	128.5	651	7
Dairyland	DSR-1673E	E3	1.6	R	53.9	14.5	0	130.0	645	8
Asgrow	AG15XF2 §	RXF	1.5	R	53.8	14.4	0	128.5	644	9
Genesis	G1340E	E3	1.3	R	53.2	14.3	0	131.0	637	10
Xitavo	XO 1632E	E3	1.6	R	53.0	14.4	0	127.5	634	11
Apex	AE1420	E3	1.4	R	52.7	14.5	0	129.5	629	12
Zinesto	Z1302E	E3	1.3	NA	52.1	14.4	0	128.0	622	13
Genesis	G1460E	E3	1.4	R	52.0	14.3	0	129.5	622	14
Hefty	H15XF2	RXF	1.5	NA	51.4	14.5	5	130.0	615	15
NK Brand	NK14-W6E3	E3	1.4	MR	50.8	14.4	0	131.0	608	16
Stine	14EE01 §	E3	1.4	MR	50.0	14.3	2	131.0	598	17
Xitavo	XO 1451E	E3	1.4	R	49.4	14.6	0	129.0	591	18
Pioneer	P16T58E §	E3	1.6	R	49.0	14.4	0	130.0	586	19
Dairyland	DSR-1450E	E3	1.4	R	48.9	14.4	1	130.0	585	20
Thunder	TX8215N	RXF	1.5	R	48.2	14.5	5	130.0	577	21
Genesis	G1650E	E3	1.6	R	48.0	14.6	0	130.0	574	22
Loyal	L1440E	E3	1.4	R	47.9	14.4	0	130.0	573	23
Zinesto	Z1601E	E3	1.6	R	47.8	14.4	0	131.0	572	24
Gold Country	1609X	RRX	1.6	R	47.7	14.3	0	131.0	571	25
Zinesto	Z1411E	E3	1.4	R	47.6	14.6	2	130.5	568	26
Dairyland	DSR-1318E	E3	1.3	R	47.1	14.5	0	130.0	563	27
Genesis	G1560E	E3	1.5	R	45.5	14.5	0	127.5	544	29
Thunder	SB8015N	RRX	1.5	R	44.8	14.3	0	131.0	536	30
NK Brand	NK14-C7XF	RXF	1.4	R	44.7	14.5	0	131.0	534	31
Pioneer	P15A63X CK	RRX	1.5	NA	46.9	14.3	0	129.5	561	28
					Averages =	48.9	14.4	1	129.4	587
					LSD (0.10) =	8.8	0.1	ns		
					LSD (0.25) =	4.6	0.1	ns		
Ed Dahle					C.V. =	13.7				
ed.dahle@firstseedtests.com, (507) 456-6624										Historic yield: new site

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

Report Date: 10/25/2021

† 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 Central [MNCE] CANBY, MN
Austen Citrowski, Yellow Medicine County, MN

Full-Season Test	Maturity Group 1.7 - 2.0 S2021MNCE02b
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / NA
SOIL DESCRIPTION:	Amiret Swanlake Loams, Canisteo Clay Loam loam, mod. well drained, non-irrigated
SOIL CONDITION:	low P, very high K, 7.6 pH, 4.3% OM, 26.7 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Valor, Roundup, Veltyma, Bifenthrin
Applied N-P-K (units):	0-0-60
SEDED - RATE - ROW:	May 13 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 25 129.0 /A

TEST COMMENTS:

The tests at this site were planted side-by-side. The full-season test was on a very level part of the field. The early season test did get to be on a very slight slope. The yields in the early test did go down on that slight slope. Austen said that the rains in August really helped things along. The weed control was excellent. The beans combined easily for me today. One low-yielding replicate causing higher variability in the early-season test was removed.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Golden Harvest	GH1802E3	E3	1.8	R	81.9	15.2	5	130.0	978	1
Genesis	G1760E	E3	1.7	R	81.9	15.2	5	127.0	977	2
Genesis	G1960E	E3	1.9	R	80.3	15.2	19	129.5	958	3
Zinesto	Z1702E	E3	1.7	NA	66.3	15.0	14	130.0	792	4
Hefty	H17XF1	RXF	1.7	NA	65.4	15.1	2	130.0	781	5
NK Brand	NK18-J7E3 §	E3	1.8	MR	64.9	14.8	4	130.3	776	6
Loyal	L2040E	E3	2.0	R	64.6	15.0	10	128.3	772	7
Apex	AE1720	E3	1.7	R	63.8	15.0	25	127.7	762	8
Latham	L 1784 XF	RXF	1.7	R	62.9	15.2	0	129.3	751	9
Dairyland	DSR-1707E	E3	1.7	R	62.0	14.9	5	128.3	741	10
Apex	AE2020	E3	2.0	R	61.7	14.8	3	131.0	738	11
Dairyland	DSR-2030E	E3	1.9	R	61.5	15.3	0	127.3	735	12
Zinesto	Z1802E	E3	1.8	NA	61.4	15.2	19	128.7	733	13
Xitavo	XO 1822E	E3	1.8	R	60.9	15.0	12	129.3	728	14
Loyal	L1740E	E3	1.7	R	60.7	15.0	19	128.3	725	15
Dyna-Gro	S18EN52	E3	1.8	MR	60.6	15.1	0	128.7	724	16
Zinesto	Z1902E	E3	1.9	NA	60.6	15.0	17	130.3	724	17
Loyal	L1940E	E3	1.9	R	59.6	15.2	22	129.3	712	18
Thunder	TE7218N	E3	1.8	R	59.5	14.8	20	130.0	711	19
Federal	F1909N	LLGT27	1.9	R	59.5	14.9	0	129.3	711	20
Golden Harvest	GH1762XF §	RXF	1.7	MR	59.3	15.2	3	131.0	708	21
Dyna-Gro	S17XF02	RXF	1.7	MR	59.2	15.0	3	129.0	707	23
Latham	L 2049 E3	E3	2.0	R	59.2	14.9	2	131.0	708	22
NK Brand	NK17-M2XF	RXF	1.7	R	58.9	15.1	4	130.0	704	24
NK Brand	NK19-C8XF	RXF	1.9	R	58.8	15.4	18	128.3	702	25
Stine	17EE32 §	E3	1.7	R	58.0	14.9	30	128.3	693	26
Hefty	H20XF2	RXF	2.0	NA	58.0	14.9	29	126.3	693	27
Stine	20EE23 §	E3	2.0	R	57.8	15.0	18	128.7	691	28
Pioneer	P18A33X §	RRX	1.8	NA	57.6	15.1	3	129.0	688	29
Genesis	G2060E	E3	2.0	R	57.5	14.9	20	131.0	687	30
Pioneer	P15A63X CK	RRX	1.5	NA	51.6	15.2	14	127.7	616	48
					Averages =	58.1	15.9	9	129.0	698
					LSD (0.10) =	7.6	ns	ns		
					LSD (0.25) =	4.0	ns	ns		
Ed Dahle					C.V. =	12.4				
ed.dahle@firstseedtests.com, (507) 456-6624										Historic yield: new site

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

Report Date: 10/25/2021

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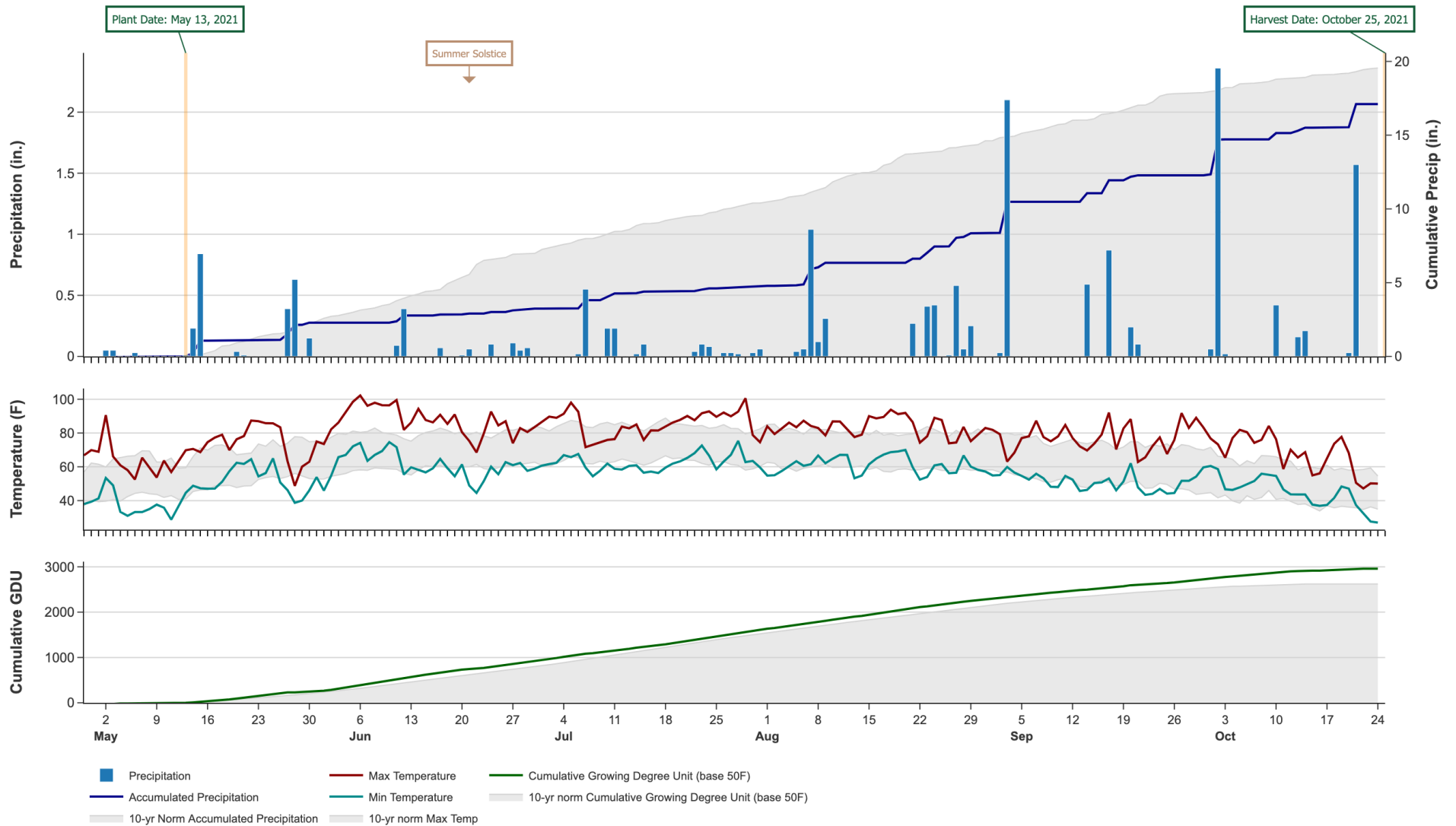
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2021 Soybeans - Minnesota Central [MNCE]

Weather Conditions Summary at CANBY, MN

Weather Data Retrieved: 10/25/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.0 0.2 (-0.2)	2.4 3.9 (-1.5)	0.9 4.6 (-3.6)	1.5 3.4 (-1.9)	3.6 4.2 (-0.6)	3.9 3.3 (+0.7)	4.8 1.6 (+3.2)	17.2 21.3 (-4.0)
GDU Normal (Diff)	18 6 (+11)	309 299 (+9)	661 580 (+80)	698 722 (-24)	674 620 (+53)	445 395 (+50)	225 85 (+139)	3030 2708 (+321)



* 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
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

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
Dahlgan	1117E3N GC	E3	R	1.7	IS
Dahlgan	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
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

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
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

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.