

Test by: NewVenture, LLC Ellendale, MN

2021 Soybeans Top 30 Harvest Report

Minnesota North Central [MNNC] WENDELL, MN
Chad Biss, Grant County, MN 56531

Early-Season Test	0.6 - 0.9 Day CRM S2021MNNC01a
Top 30 of 37	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Armezon Pro, Atrazine
SOIL DESCRIPTION:	Aazdahl-Formdale-Balaton Clay clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	medium P, medium K, 7.1 pH, 5.3% OM, 27.2 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Flexstar Gt, Ultra Blazer
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 14 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 129.6 /A

TEST COMMENTS:

Planting conditions were very good but on the dry side. There were some green stems on a few varieties at harvest. There were also areas of lodging noted. During a mid-July site visit, the plot looked very good despite the lack of rain. Thank you to Chad for hosting again this year. The early-season test did not have significant differences between varieties and had to be rejected.

Company/Brand	Product/Brand	Seeds / Bu	Yield	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Thomson	TR4000	800	57.7	11.7	4	129.3	554	1
Dynagrow	DYN4000	800	57.8	12.4	2	127.7	544	2
Lucas	LUC4000	800	58.7	11.5	0	129.7	554	3
Agri	AG4000	800	59.0	11.8	0	130.0	555	4
Dynagrow	DYN4000	800	59.5	13.5	0	130.0	556	5
Lucas	LUC4000	800	59.8	11.4	0	130.0	556	7
Dynagrow	DYN4000	800	60.0	11.8	0	130.0	557	8
Agri	AG4000	800	60.0	11.8	0	130.0	557	9
Dynagrow	DYN4000	800	60.0	11.8	0	130.0	557	10
Thomson	TR4000	800	60.4	11.7	0	129.7	558	11
Lucas	LUC4000	800	60.7	11.5	0	129.3	578	12
Thomson	TR4000	800	61.0	13.0	1	130.0	574	13
Lucas	LUC4000	800	61.0	13.0	0	129.3	582	14
Lucas	LUC4000	800	61.0	13.0	17	130.0	588	15
Dynagrow	DYN4000	800	61.0	13.1	0	131.0	588	16
Thomson	TR4000	800	61.2	13.2	0	131.0	592	17
Thomson	TR4000	800	61.1	11.8	1	130.0	591	18
Lucas	LUC4000	800	61.0	11.8	12	130.0	590	19
Thomson	TR4000	800	61.7	13.4	2	129.3	546	20
Dynagrow	DYN4000	800	61.7	14.2	0	129.3	545	22
Lucas	LUC4000	800	61.7	12.8	0	127.0	545	21
Dynagrow	DYN4000	800	61.8	13.1	2	127.7	545	23
Lucas	LUC4000	800	61.1	13.1	0	129.3	539	24
Thomson	TR4000	800	61.8	11.7	16	127.7	538	25
Lucas	LUC4000	800	61.3	11.7	0	130.0	538	26
Agri	AG4000	800	61.2	11.7	0	130.0	538	27
Agri	AG4000	800	61.8	11.8	4	131.0	534	28
Thomson	TR4000	800	61.5	11.8	1	129.3	519	29
Dynagrow	DYN4000	800	61.4	13.3	0	130.0	517	31
Lucas	LUC4000	800	61.4	11.8	2	130.0	518	30

REJECTED

Averages = **44.6** 12.2 3 129.6 556

LSD (0.10) = ns ns 6

LSD (0.25) = ns ns 3

Ed Dahle

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C.V. = 13.1

Historic yield: 47.46 bu/a, 4 yr(s)

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

Report Date: 10/07/2021

† 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] WENDELL, MN
Chad Biss, Grant County, MN 56531

Full-Season Test	1.0 - 1.5 Day CRM S2021MNNC01b
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Armezon Pro, Atrazine
SOIL DESCRIPTION:	Aazdahl-Formdale-Balaton Clay clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	medium P, medium K, 7.1 pH, 5.3% OM, 27.2 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Flexstar Gt, Ultra Blazer
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 14 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 129.7 /A

TEST COMMENTS:

Planting conditions were very good but on the dry side. There were some green stems on a few varieties at harvest. There were also areas of lodging noted. During a mid-July site visit, the plot looked very good despite the lack of rain. Thank you to Chad for hosting again this year. The early-season test did not have significant differences between varieties and had to be rejected.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Xitavo	XO 1372E ↗	E3	1.3	R	58.8	11.9	3	131.0	735	1
Apex	AE1520 ↗	E3	1.5	R	55.8	12.2	0	129.3	698	2
Dahlman	1111E3N GC ↗	E3,ST	1.1	R	55.4	12.2	5	130.0	692	3
Latham	L 1558 E3 ↗	E3	1.5	R	54.5	12.5	4	129.3	681	4
Zinesto	Z1302E ↗	E3	1.3	NA	52.8	12.3	0	130.0	660	5
Stine	11EC02 § ↗	E3	1.1	R	52.2	12.4	5	129.3	652	6
Zinesto	Z1101E ↗	E3	1.1	R	50.8	12.4	1	128.7	635	7
Dairyland	DSR-1450E ↗	E3	1.4	R	49.0	11.6	3	129.3	612	8
Dyna-Gro	S12XF92 ↗	RXF	1.2	R	48.9	12.5	0	129.3	611	9
Latham	L 1383 XF ↗	RXF	1.3	R	47.3	12.2	0	129.3	591	10
Latham	L 1392 E3 ↗	E3	1.3	R	46.9	12.1	11	131.3	586	11
Xitavo	XO 1451E ↗	E3	1.4	R	46.6	12.1	1	128.0	582	12
NK Brand	NK14-C7XF § ↗	RXF	1.4	R	46.1	11.6	3	130.7	576	13
Thunder	SB8010N ↗	RRX	1.0	R	46.0	11.5	1	130.7	575	14
Hefty	H14XF1 ↗	RXF	1.4	NA	45.9	11.9	2	128.3	574	15
Credenz	CZ 1171GTLL ↗	LLGT27	1.1	MR	45.9	11.8	0	128.7	574	16
Genesis	G1460E ↗	E3	1.4	R	45.8	12.1	5	131.0	572	17
Thunder	TX8215N ↗	RXF	1.5	R	45.7	12.9	0	129.0	570	18
Dyna-Gro	S15XF82 ↗	RXF	1.5	MR	45.5	12.3	0	127.7	569	19
Asgrow	AG10XF1 § ↗	RXF	1.0	R	45.3	11.6	1	129.3	566	20
Apex	AE1220 ↗	E3	1.2	R	44.7	12.0	8	129.3	559	21
Stine	14EE01 § ↗	E3	1.4	MR	44.5	12.2	0	131.0	556	22
Zinesto	Z1202E ↗	E3	1.2	NA	44.5	12.2	0	131.3	556	23
Zinesto	Z1502E ↗	E3	1.5	NA	44.0	12.1	0	129.7	550	24
Pioneer	P11A44X § ↗	RRX	1.1	R	43.8	11.9	3	129.3	548	25
NK Brand	NK14-W6E3 ↗	E3	1.4	MR	43.4	12.4	1	130.7	542	26
Dairyland	DSR-1290E ↗	E3	1.2	R	43.1	12.1	7	128.7	539	27
Loyal	L1230ES ↗	E3,ST	1.2	R	43.0	11.8	0	131.0	538	28
Thunder	TX8211N ↗	RXF	1.1	R	42.9	11.8	4	130.0	536	29
Hefty	H12XF2 ↗	RXF	1.2	NA	42.8	12.0	7	130.3	535	30
Dahlman	6015XN CK	RRX	1.5	R	41.0	12.6	0	130.0	512	41
					Averages =	44.3	12.1	2	129.7	552
					LSD (0.10) =	7.3	ns	4		
					LSD (0.25) =	3.8	ns	2		
Ed Dahle					C.V. =	15.5				
ed.dahle@firstseedtests.com, (507) 456-6624										Historic yield: 47.46 bu/a, 4 yr(s)

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

Report Date: 10/07/2021

† 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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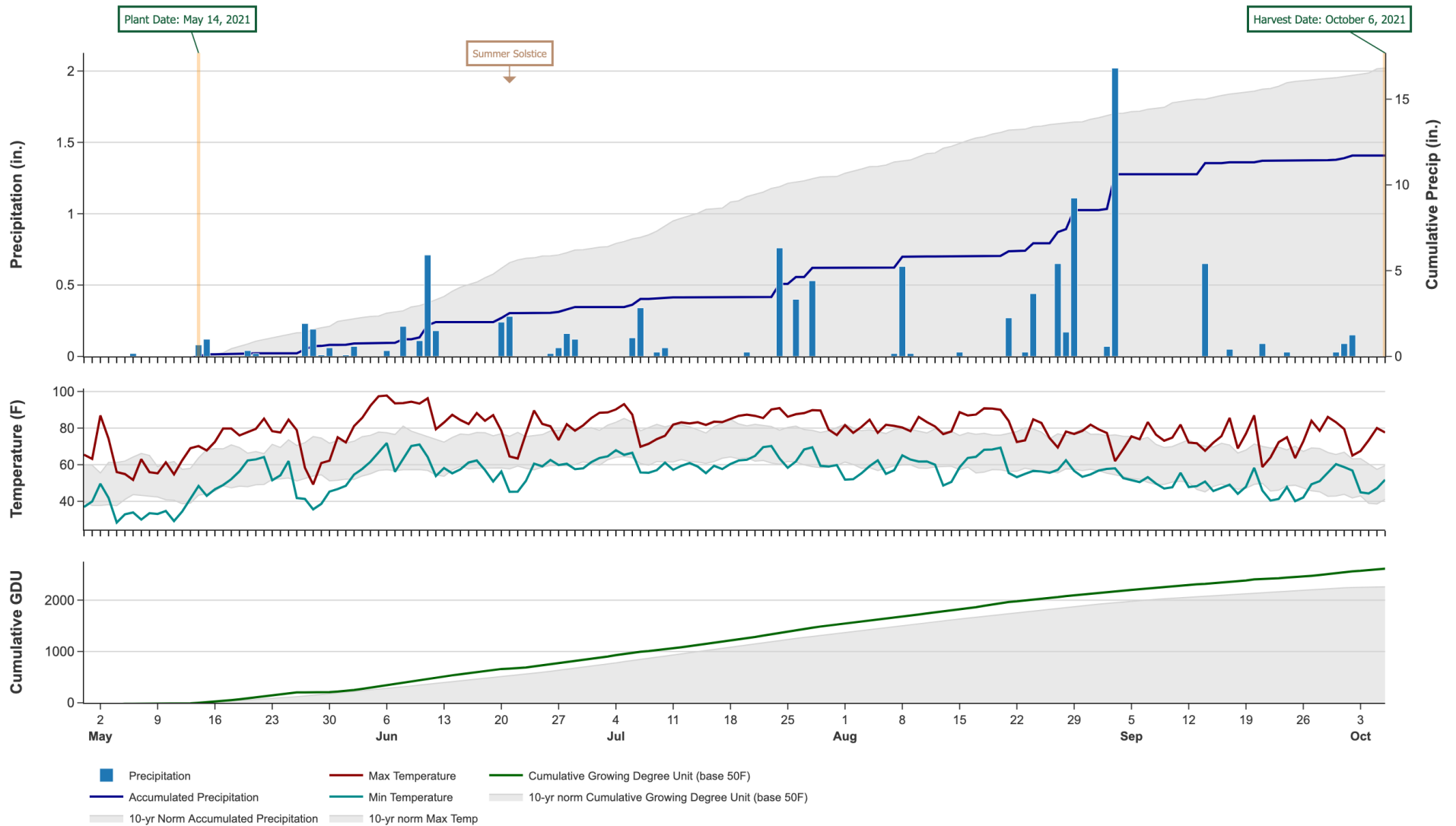
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2021 Soybeans - Minnesota North Central [MNNC]

Weather Conditions Summary at WENDELL, MN

Weather Data Retrieved: 10/07/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.0 0.1 (-0.1)	0.8 3.0 (-2.3)	2.2 4.2 (-2.0)	2.3 4.3 (-2.0)	3.4 3.3 (0.0)	2.9 2.4 (+0.5)	0.2 0.6 (-0.3)	11.8 17.9 (-6.1)
GDU Normal (Diff)	8 0 (+8)	277 235 (+41)	608 508 (+99)	695 656 (+38)	607 555 (+51)	402 327 (+74)	80 26 (+53)	2677 2309 (+367)



* 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

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Zinesto	Z0702E	E3	NA	0.7	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 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	1111E3N 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

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

* 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
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
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.