

Test by: Southern MN FIRST New Richland, MN

2021 Soybeans Top 30 Harvest Report

Minnesota South Central [MNCS] NERSTRAND, MN
Wheeling Grain Partnership, Keith, Kurt and Brian Schrader,
Rice County, MN 55053

Early-Season Test	1.5 - 1.8 Day CRM S2021MNCS08a
Top 30 of 52	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Surestart II, Halex Gt
SOIL DESCRIPTION:	Littleton silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	medium P, high K, 6.4 pH, 4.7% OM, 19.3 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Zidua Pro, Flexstar, Volunteer
FERTILITY - Applied N:	11 Spring
Applied N-P-K (units):	11-52-120
SEEDED - RATE - ROW:	May 8 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 11 123.1 /A

TEST COMMENTS:

Planted here on May 8 after vertical tillage in corn stalks in a nice seedbed. Seed sat in the ground for 10 days before any rainfall for germination. Rains were just enough all year here. The field was sprayed conventionally, and control was quite good. Pests were not a problem. Plants were tall, and some varieties fell over (see the lodging scores). Temperatures were warm all season and the chart on page 3 of this report shows this site received almost normal rainfall during the growing season.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
NK Brand	NK17-M2XF ↗	RXF	1.7	R	78.9	11.9	1	121.3	986	1
Dairyland	DSR-1820E ↗	E3	1.8	R	78.7	11.6	0	124.0	984	2
Hefty	H16XF2 ↗	RXF	1.6	NA	78.5	11.8	1	124.3	981	3
Hefty	H17XF1 ↗	RXF	1.7	NA	78.4	11.5	0	124.3	980	4
Stine	17EE32 § ↗	E3	1.7	R	78.0	11.9	0	124.0	975	5
Renk	RS150NX ↗	RRX	1.5	R	78.0	11.6	0	121.0	975	6
Xitavo	XO 1632E ↗	E3	1.6	R	77.5	11.9	0	121.7	969	7
Loyal	L1740E ↗	E3	1.7	R	77.0	11.7	1	121.3	962	8
Hefty	H18XF2 ↗	RXF	1.8	NA	76.7	11.8	0	124.7	959	10
Xitavo	XO 1761E ↗	E3	1.7	R	76.7	11.4	0	123.3	959	11
Dahlman	1215E3N GC ↗	E3	1.5	NA	76.5	11.9	0	123.7	956	12
Zinesto	Z1702E ↗	E3	1.7	NA	75.6	11.8	1	121.7	945	13
Apex	AE1720 ↗	E3	1.7	R	75.6	11.7	1	124.3	945	14
Asgrow	AG18XF1 § ↗	RXF	1.8	R	75.6	11.8	0	124.0	945	15
Loyal	L1540E ↗	E3	1.5	R	75.5	11.7	0	124.7	944	16
Genesis	G1680GL ↗	LLGT27	1.6	R	75.5	11.7	0	125.5	944	17
Credenz	CZ 1660GTLL ↗	LLGT27	1.6	MR	75.2	11.7	0	121.7	940	18
Latham	L 1784 XF ↗	RXF	1.7	R	75.1	11.7	0	121.7	939	19
Dairyland	DSR-1673E ↗	E3	1.6	R	75.0	11.9	0	122.0	938	20
Hefty	H15XF2 ↗	RXF	1.5	NA	74.9	11.6	0	123.7	936	21
Genesis	G1760E ↗	E3	1.7	R	74.7	11.6	0	121.7	934	22
Anderson	159RXT ↗	RRX	1.5	MR	74.3	11.7	0	122.7	929	23
Genesis	G1560E ↗	E3	1.5	R	74.3	12.2	0	122.3	929	24
Federal	F1709N ↗	LLGT27	1.7	R	74.3	11.9	0	123.3	929	25
Zinesto	Z1502E ↗	E3	1.5	NA	74.1	12.1	0	122.3	926	26
Gold Country	1609X ↗	RRX	1.6	R	74.0	11.4	0	122.7	925	27
Pioneer	P18A33X § ↗	RRX	1.8	NA	73.8	11.3	0	122.0	922	28
Latham	L 1648 LLGT27 ↗	LLGT27	1.6	R	73.6	11.8	0	123.7	920	29
Latham	L 1558 E3 ↗	E3	1.5	R	73.5	11.8	0	122.7	919	30
Anderson	A151E3 ↗	E3	1.5	NA	73.0	11.7	0	125.7	912	31
Dahlman	7218XF CK	RXF	1.8	NA	77.0	11.9	1	122.7	962	9
					Averages =	72.9	11.8	0	123.1	912
					LSD (0.10) =	4.7	ns	1		
					LSD (0.25) =	2.4	ns	0		
					C.V. =	6.1				
										Historic yield: 65.82 bu/a, 4 yr(s)

Mark Querna

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Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$12.50; non-GMO = \$14.50

Report Date: 10/12/2021

† 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 South Central [MNCS] NERSTRAND, MN
Wheeling Grain Partnership, Keith, Kurt and Brian Schrader,
Rice County, MN 55053

Full-Season Test	1.9 - 2.2 Day CRM S2021MNCS08b
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Surestart II, Halex Gt
SOIL DESCRIPTION:	Littleton silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	medium P, high K, 6.4 pH, 4.7% OM, 19.3 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Zidua Pro, Flexstar, Volunteer
FERTILITY - Applied N:	11 Spring
Applied N-P-K (units):	11-52-120
SEEDED - RATE - ROW:	May 8 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 11 123.4 /A

TEST COMMENTS:

Planted here on May 8 after vertical tillage in corn stalks in a nice seedbed. Seed sat in the ground for 10 days before any rainfall for germination. Rains were just enough all year here. The field was sprayed conventionally, and control was quite good. Pests were not a problem. Plants were tall, and some varieties fell over (see the lodging scores). Temperatures were warm all season and the chart on page 3 of this report shows this site received almost normal rainfall during the growing season.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Dyna-Gro	S21XF61 ↗	RXF	2.1	R	84.0	12.0	0	124.0	1050	1
Zinesto	Z1902E ↗	E3	1.9	NA	81.0	12.3	1	123.3	1012	2
Hefty	H20XF1 ↗	RXF	2.0	NA	80.2	11.6	0	124.7	1002	3
LG Seeds	LGS2025XF GC ↗	RXF	2.0	R	80.2	12.2	0	125.3	1002	4
Renk	RS219NX ↗	RRX	2.1	R	79.6	11.6	1	123.0	995	5
Pioneer	P20T64E GC ↗	E3	2.0	R	79.5	12.0	0	122.7	994	6
Golden Harvest	GH2102XF ↗	RXF	2.1	MR	78.2	11.8	2	124.3	978	7
Anderson	217RXT ↗	RRX	2.0	MR	78.1	11.3	2	123.3	976	8
Genesis	G2260E ↗	E3	2.2	R	78.1	11.8	1	125.0	976	9
NK Brand	NK22-C4E3 ↗	E3	2.2	R	77.7	11.4	0	124.0	971	10
Federal	F2121N ↗	LLGT27	2.1	R	77.3	12.2	1	123.7	966	11
Zinesto	Z2202E ↗	E3	2.2	NA	77.2	12.1	0	125.3	965	12
Pioneer	P21A28X § ↗	RRX	2.1	R	77.0	11.4	1	125.0	962	14
Credenz	CZ 2121GTLL ↗	LLGT27	2.1	MR	76.8	12.2	0	122.3	960	15
Golden Harvest	GH2292E3 ↗	E3	2.2	MR	76.8	11.2	0	124.0	960	16
Dairyland	DSR-2112E ↗	E3	2.1	R	75.8	12.1	1	123.7	948	17
Dairyland	DSR-2030E ↗	E3	1.9	R	75.7	11.8	3	122.3	946	18
Gold Country	2250XF ↗	RXF	2.2	R	75.4	12.1	0	121.7	943	19
Apex	AE2220 ↗	E3	2.2	R	75.2	11.8	0	123.3	940	20
Apex	AE2110 ↗	E3	2.1	R	75.2	11.5	2	123.7	940	21
Asgrow	AG21XF0 § ↗	RXF	2.1	R	75.0	12.1	2	122.7	938	22
Loyal	L2240E ↗	E3	2.2	R	74.5	11.8	4	123.3	931	23
Innotech	IS2089E3 ↗	E3	2.0	MR	74.4	11.4	3	122.7	930	24
Latham	L 2184 R2X ↗	RRX	2.1	R	73.4	11.0	10	123.3	918	25
Renk	RS212NXF ↗	RXF	2.1	R	73.1	11.7	3	123.7	914	26
Hefty	H20X7 ↗	RRX	2.0	MR	72.7	11.2	7	122.3	909	27
Latham	L 2193 E3 ↗	E3	2.1	R	72.6	11.4	2	123.0	907	28
Stine	21EE62 § ↗	E3	2.1	R	72.3	12.4	1	124.3	904	29
Latham	L 2049 E3 ↗	E3	2.0	R	71.6	11.6	0	122.7	895	30
Anderson	A200E3 ↗	E3	2.0	NA	71.5	11.7	0	123.0	894	31
Dahlman	7218XF CK	RXF	1.8	NA	77.1	12.0	5	125.0	964	13
					Averages =	72.4	11.8	4	123.4	905
					LSD (0.10) =	4.5	0.5	7		
					LSD (0.25) =	2.4	0.3	4		
					C.V. =	5.9				
					Historic yield: 65.82 bu/a, 4 yr(s)					

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Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$12.50; non-GMO = \$14.50

Report Date: 10/12/2021

† 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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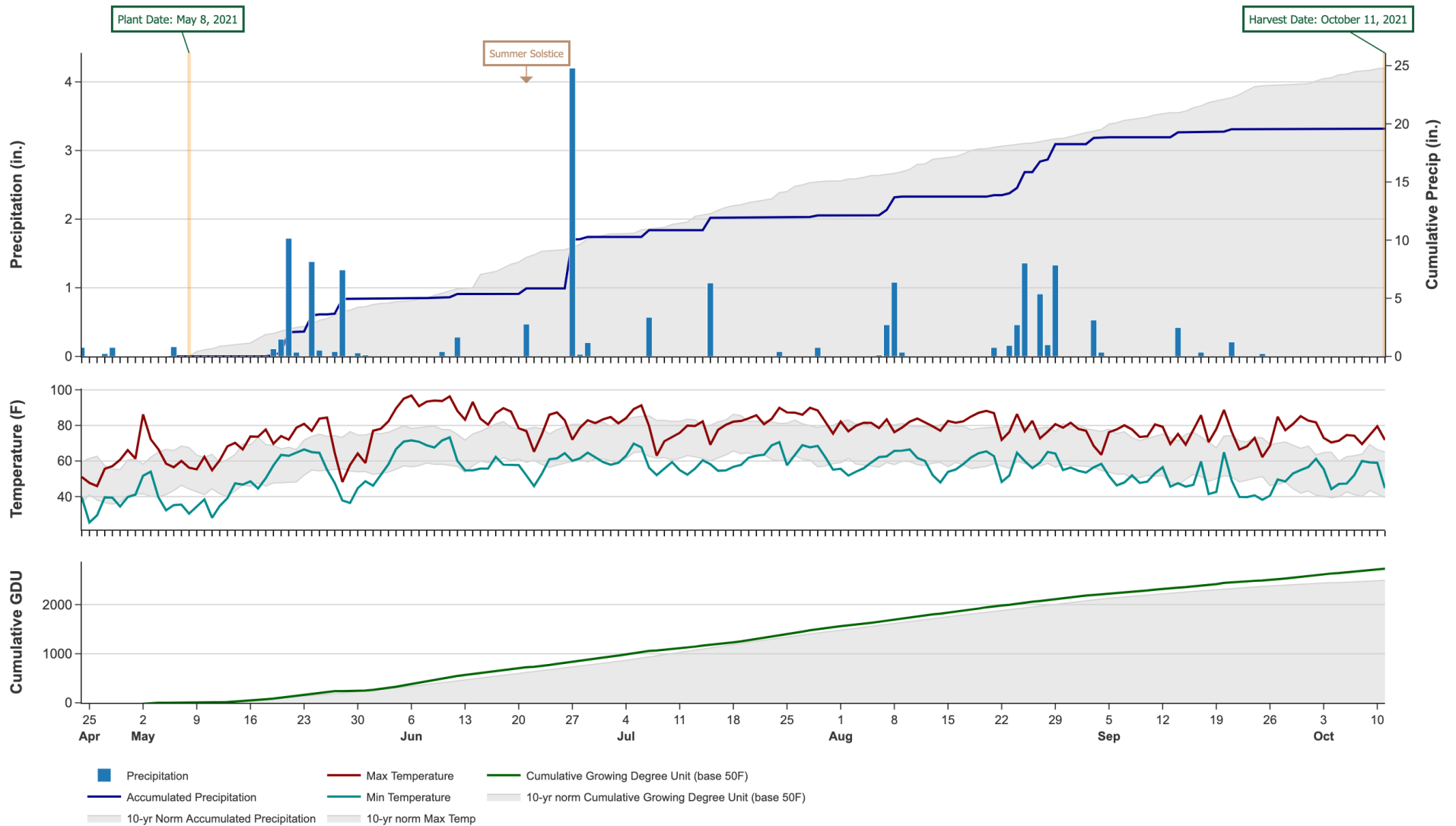
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2021 Soybeans - Minnesota South Central [MNSC]

Weather Conditions Summary at NERSTRAND, MN

Weather Data Retrieved: 10/12/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.3 0.8 (-0.5)	5.2 5.5 (-0.3)	5.3 6.0 (-0.7)	1.8 4.8 (-3.0)	6.1 3.8 (+2.3)	1.3 4.5 (-3.2)	0.0 1.4 (-1.4)	20.0 26.8 (-6.8)
GDU Normal (Diff)	8 17 (-9)	296 293 (+2)	648 541 (+106)	643 679 (-36)	611 583 (+27)	415 373 (+41)	163 75 (+87)	2784 2564 (+219)



* 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 South Central [MNSC]

Early-Season Test Products (52 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	159RXT	RRX	MR	1.5	Untreated
Anderson	A151E3	E3	NA	1.5	Untreated
Anderson	A180E3	E3	NA	1.8	Untreated
Anderson	A1821XF	RXF	NA	1.8	Untreated
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
Asgrow	AG18XF1 §	RXF	R	1.8	Untreated
Credenz	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
Dahlman	1215E3N GC	E3	NA	1.5	Untreated
Dahlman	6815XN GC	RRX	R	1.5	IS
Dahlman	7218XF CK	RXF	NA	1.8	IS
Dairyland	DSR-1673E	E3	R	1.6	Lum,IL
Dairyland	DSR-1707E	E3	R	1.7	Lum,IL
Dairyland	DSR-1820E	E3	R	1.8	Lum,IL
Dyna-Gro	S17XF02	RXF	MR	1.7	EQV,SA
Dyna-Gro	S18EN52	E3	MR	1.8	EQV,SA
Federal	F1709N	LLGT27	R	1.7	MAG
Federal	F1720N	RXF	R	1.7	MAG
Genesis	G1560E	E3	R	1.5	CMBV,SA
Genesis	G1680GL	LLGT27	R	1.6	CMBV,SA
Genesis	G1760E	E3	R	1.7	CMBV,SA
Gold Country	1531XF	RXF	R	1.5	ACi,IL
Gold Country	1609X	RRX	R	1.6	ACi,IL
Golden Harvest	GH1762XF §	RXF	MR	1.7	CMBV,SA
Golden Harvest	GH1802E3	E3	R	1.8	CMBV,SA
Hefty	H15XF2	RXF	NA	1.5	DST5
Hefty	H16XF2	RXF	NA	1.6	DST4,SA
Hefty	H17XF1	RXF	NA	1.7	DST4,SA
Hefty	H18XF2	RXF	NA	1.8	DST4,SA
Innotech	IS1761E3	E3	MR	1.7	Fortify
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 1784 XF	RXF	R	1.7	SS+,SA
LG Seeds	LGS1769XF GC	RXF	R	1.7	ASfi,SA
Loyal	L1540E	E3	R	1.5	CMBV,SA
Loyal	L1740E	E3	R	1.7	CMBV,SA
NK Brand	NK17-M2XF	RXF	R	1.7	CMBV,SA
NK Brand	NK18-J7E3 §	E3	MR	1.8	CMBV,SA
Pioneer	P15A63X §	RRX	NA	1.5	Untreated

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Pioneer	P18A33X §	RRX	NA	1.8	Lum,Lu
Renk	RS150NX	RRX	R	1.5	EcTC
Stine	17EE32 §	E3	R	1.7	SFI
Xitavo	XO 1632E	E3	R	1.6	PV,IL,OB
Xitavo	XO 1761E	E3	R	1.7	PV,IL,OB
Xitavo	XO 1822E	E3	R	1.8	PV,IL,OB
Zinesto	Z1502E	E3	NA	1.5	DST4,SA
Zinesto	Z1702E	E3	NA	1.7	DST4,SA
Zinesto	Z1801E	E3	R	1.8	DST4,SA
Zinesto	Z1802E	E3	NA	1.8	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 South Central [MNSC]

Full-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	217RXT	RRX	MR	2.0	Untreated
Anderson	A200E3	E3	NA	2.0	Untreated
Anderson	A2121XF	RXF	NA	2.0	Untreated
Apex	AE1920	E3	R	1.9	CMBV,SA
Apex	AE2020	E3	R	2.0	CMBV,SA
Apex	AE2110	E3	R	2.1	CMBV,SA
Apex	AE2220	E3	R	2.2	CMBV,SA
Asgrow	AG21XF0 §	RXF	R	2.1	ACi,IL
Credenz	CZ 2121GTLL	LLGT27	MR	2.1	PV,IL,OB
Dahlman	7218XF CK	RXF	NA	1.8	IS
Dairyland	DSR-2030E	E3	R	1.9	Lum,IL
Dairyland	DSR-2040E	E3	R	2.0	Lum,IL
Dairyland	DSR-2112E	E3	R	2.1	Lum,IL
Dairyland	DSR-2222E	E3	R	2.2	Lum,IL
Dyna-Gro	S19EN21	E3	R	1.9	EQV,SA
Dyna-Gro	S21EN81	E3	R	2.1	EQV,SA
Dyna-Gro	S21XF61	RXF	R	2.1	EQV,SA
Federal	F2121N	LLGT27	R	2.1	MAG
Federal	F2210N	RXF	R	2.2	MAG
Genesis	G1950E	E3	R	1.9	CMBV,SA
Genesis	G1960E	E3	R	1.9	CMBV,SA
Genesis	G2060E	E3	R	2.0	CMBV,SA
Genesis	G2260E	E3	R	2.2	CMBV,SA
Gold Country	2250XF	RXF	R	2.2	ACi,IL
Golden Harvest	GH2102XF	RXF	MR	2.1	CMBV,SA
Golden Harvest	GH2292E3	E3	MR	2.2	CMBV,SA
Hefty	H20X7	RRX	MR	2.0	DST4,SA
Hefty	H20XF1	RXF	NA	2.0	DST4,SA
Hefty	H20XF2	RXF	NA	2.0	DST4,SA
Hefty	H21XF2	RXF	NA	2.1	DST4,SA
Innotech	IS2089E3	E3	MR	2.0	Fortify
Latham	L 2049 E3	E3	R	2.0	SS+,SA
Latham	L 2184 R2X	RRX	R	2.1	SS+,SA
Latham	L 2193 E3	E3	R	2.1	SS+,SA
Latham	L 2283 XF	RXF	R	2.2	SS+,SA
LG Seeds	LGS2025XF GC	RXF	R	2.0	Asfi,SA
Loyal	L1940E	E3	R	1.9	CMBV,SA
Loyal	L2040E	E3	R	2.0	CMBV,SA
Loyal	L2130E	E3	R	2.1	CMBV,SA
Loyal	L2240E	E3	R	2.2	CMBV,SA
NK Brand	NK19-C8XF	RXF	R	1.9	CMBV,SA
NK Brand	NK21-H4XF §	RXF	MR	2.1	CMBV,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
NK Brand	NK22-C4E3	E3	R	2.2	CMBV,SA
Pioneer	P20T64E GC	E3	R	2.0	Lum,Lu
Pioneer	P21A28X §	RRX	R	2.1	Lum,Lu
Renk	RS212NXF	RXF	R	2.1	EcTC,SA
Renk	RS219NX	RRX	R	2.1	EcTC,SA
Stine	20EE23 §	E3	R	2.0	SFI
Stine	21EE62 §	E3	R	2.1	SFI
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB
Zinesto	Z1902E	E3	NA	1.9	DST5
Zinesto	Z2002E	E3	NA	2.0	DST4,SA
Zinesto	Z2101E	E3	R	2.1	DST4,SA
Zinesto	Z2202E	E3	NA	2.2	DST4,SA

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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®

Soybeans Seed Treatments*

NA	Not Available
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ASfi,SA	AgriShield Max with Saltro®
CMBV,SA	Cruisermassx® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
DST5	Dominance 5 ST
EcTC	Eclipse US Total Coverage Trio IM, N-Force
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro®
EQV,SA	Equity VIP, Saltro®
Fortify	Insecticide-Fungicide (Rob-See-Co)
IS	Intego® Suite
Lum,IL	LumiGEN™ plus ILeVO
Lum,Lu	LumiGEN™, Lumisena™
MAG	Max Armor Guard (Federal Hybrids)
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.